

**STEEL BOX GIRDER BRIDGE  
(7-SPAN)**

**SUPERSTRUCTURE**

# Calculation Sheet for Quantity of Steel Box Girder

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Installation of Expansion Joint P20

Category	Grade	Thickness • Size	Main Girder	Deck Plate Including Cross Beam	Steel Materials for Accessories	Sum
PL	SM570-H	54	10,580			10,580
		52	55,572			55,572
		47	13,646			13,646
		46	42,740			42,740
		44	12,772			12,772
		43	9,366			9,366
		42	36,576			36,576
PL	SM570-H	54--42	181,252			181,252
PL	SM570	40	35,678			35,678
		39	6,792			6,792
		38	28,680			28,680
		37	10,738			10,738
		36	10,450			10,450
		35	17,332			17,332
		34	27,418			27,418
		33	9,578			9,578
		32	81,688			81,688
		31	9,514			9,514
		30	63,122			63,122
		29	15,066			15,066
		28	60,226			60,226
		27	44,960			44,960
		26	22,648			22,648
		25	9,911			9,911
		24	37,070			37,070
		23	35,386			35,386
		22	17,652			17,652
		21	27,742			27,742
20	55,852			55,852		
19	206,995			206,995		
18	42,790			42,790		
17	15,234			15,234		
16	5,806			5,806		
15	4,804			4,804		
14	13,162			13,162		
13	13,598			13,598		
12	399,744			399,744		
11	365,252			365,252		
10	3,552			3,552		
9	62,864			62,864		
PL	SM570	40--9	1,761,304			1,761,304

Category	Grade	Thickness • Size	Main Girder	Deck Plate Including Cross Beam	Steel Materials for Accessories	Sum
PL	SM490YB	38	11144			11,144
		28	22354			22,354
		27	7250	106,679		113,929
		26	20758			20,758
		25	622	108,905		109,527
		23	9818			9,818
		22	48480	177,907		226,387
		21	68282	58,863		127,145
		20	64988	99,016		164,004
		19	251174	84,778		335,952
		18	38448	1,048		39,496
		17	48770	442		49,212
	SM490YB	38--17	592,088	637,638		1,229,726
	SM490YA	16	145,840	1,575,725		1,721,565
		15	80740	2,528		83,268
		14	44320	4,608		48,928
		13	15310	1,917		17,227
		12	442488	3,950		446,438
		11	386256	1,156		387,412
		10	4002	21,842		25,844
		9	89622	354,896		444,518
	SM490YA	16--9	1,208,578	1,966,622	18,328	3,193,528
	SM490C	45	2,754			2,754
	SM490C	45	2,754			2,754
	SM490B	40	6,528			6,528
		32	848			848
		30	852			852
	SM490B	40--32	8,228			8,228
SM400A	30	2,392			2,392	
	27	3,824			3,824	
	25	814			814	
	22	802			802	
	19	22,704			22,704	
	16	278,650			278,650	
	12	14,262	10,816		25,078	
	11	4,396	7,387		11,783	
	10	67,058	90,285		157,343	
	9	499,525	184,470		683,995	
	6	140			140	
PL	SM400A	30--6	894,567	292,958	8,066	1,195,591



Category	Grade	Thickness • Size	Main Girder	Deck Plate Including Cross Beam	Steel Materials for Accessories	Sum	
PL	SS400	22	244			244	
		21	232			232	
		20	308			308	
		19	592			592	
		18	282			282	
		16	142			142	
		15	134			134	
		14	372			372	
		13			3,381		3,381
		12	238				238
		11	306				306
		10	420				420
		9	2648		136,237		138,885
		8	1864				1,864
		6	1936		1,044		2,980
		5			848		848
		4	1318		340		1,658
		3.2	176		278		454
2.3	594				594		
PL	SS400	22--2.3	11,806	142,128		153,934	
PL	Sum	Subtotal	4,660,577	3,039,346	26,393	7,726,316	
U-Shape	SM490YA	320* 240* 8		786,156		786,156	
BULB-Shape	SM490YA	230* 11		220,726		220,726	
Shapes	Sum	Subtotal		1,006,882		1,006,882	
TCB	S10T	M 22	108,074	177,828	201	286,103	
HTB	F10T	M 22		26,005		26,005	
TCB&HTB	Sum	Subtotal	108,074	203,833	201	312,108	
PIPE	SUS304	20	1			1	
PIPE	Sum	Subtotal	1			1	
RB	SS400	13 φ	61			61	
RB	Sum	Subtotal	61			61	
BN	SS400	M 16	359			359	
	SUS304	M 16	114			114	
BN	Sum	Subtotal	473			473	
PIN	SUS304	5 φ	10			10	
PIN	Sum	Subtotal	10			10	
Stud Bolt & Nut	Sum				336	336	
Sum Total			4,769,196	4,250,061	26,930	9,046,187	

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  - 1.4 ž Table of Weight for Assembled Block
  
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  - 2.1 ž Summury Table for Material list of  
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Installation of Expansion Joint P13
  - 2.8 ž Additional Steel Deck for  
Installation of Expansion Joint P20

Table of Steel Weight (Main Girder Only)

Category	Grade	Thickness	Cross Girder	Deck Plate	Main Girder	Sub-Total	
PL	SM400A	9		266,981	254,293	521,274	
		10	98,044	105,958	53,128	257,130	
		11			1,262	1,262	
		12	12,702		3,656	16,358	
		13			745	745	
		16			1,448	1,448	
		19			177,066	177,066	
		22			657,060	657,060	
		30			4,608	4,608	
	SM400A Total			110,746	372,939	1,153,266	1,636,951
	SM490YA	9			244,916	122,426	367,342
		10				10,022	10,022
		11				321,040	321,040
		12				448,150	448,150
		13				47,300	47,300
		14				53,580	53,580
		15				79,414	79,414
		16			1,533,124	159,200	1,692,324
	SM490YA Total				1,778,040	1,241,132	3,019,172
	SM490YB	17				78,200	78,200
		18			71,859	23,019	94,878
		19			75,872	389,162	465,034
		20			159,696	68,228	227,924
		21				95,766	95,766
		22				20,578	20,578
		23				9,824	9,824
		24			27,636	1,696	29,332
		25			102,653	6,297	108,950
		26			66,870	25,612	92,482
		27				7,254	7,254
		28				22,366	22,366
	36				10,564	10,564	
	SM490YB Total				504,586	758,566	1,263,152

Table of Steel Weight (Main Girder Only)

Category	Grade	Thickness	Cross Girder	Deck Plate	Main Girder	Sub-Total		
PL	SM570	9			63,848	63,848		
		10			2,928	2,928		
		11			284,562	284,562		
		12			387,587	387,587		
		13			20,266	20,266		
		14			93,624	93,624		
		15			6,468	6,468		
		16			36,836	36,836		
		17			13,542	13,542		
		18			43,868	43,868		
		19			169,118	169,118		
		20			47,796	47,796		
		21			28,210	28,210		
		22			30,944	30,944		
		23			34,474	34,474		
		24			41,018	41,018		
		25			29,170	29,170		
		26			21,723	21,723		
		27			25,987	25,987		
		28			47,644	47,644		
		29			14,589	14,589		
		30			88,146	88,146		
		31			938	938		
		32			55,038	55,038		
		33			33,952	33,952		
		34			1,280	1,280		
		35			27,168	27,168		
		36			10,456	10,456		
		37			10,744	10,744		
		38			28,698	28,698		
		39			12,150	12,150		
		40			35,696	35,696		
			SM570 Total				1,748,468	1,748,468
			SM570-H	41			23,812	23,812
				42			12,198	12,198
				43			9,372	9,372
				44			12,780	12,780
				45			26,144	26,144
				46			24,048	24,048
				47			13,652	13,652
	51				44,450	44,450		
	52				10,196	10,196		
	54			10,590	10,590			
	SM570-H Total				187,242	187,242		
PL Total			110,746	2,655,565	5,088,674	7,854,985		

Table of Steel Weight (Main Girder Only)

Category	Grade	Thickness	Cross Girder	Deck Plate	Main Girder	Sub-Total
U	SM490YA	320* 240* 8		754,400	32,800	787,200
	SM490YA Total			754,400	32,800	787,200
U Total				754,400	32,800	787,200
BULB	SM490YA	230* 11		202,008	19,471	221,479
	SM490YA Total			202,008	19,471	221,479
BULB Total				202,008	19,471	221,479
TCB	S10T	M 22		11,333	117,329	128,662
	S10T Total			11,333	117,329	128,662
TCB Total				11,333	117,329	128,662

Summary Table of Whole Steel Weight (Main Girder Only)

Category	Cross Girder	Deck Plate	Main Girder	Sub-Total
PL Total	110,746	2,655,565	5,088,674	7,854,985
U Total		754,400	32,800	787,200
BULB Total		202,008	19,471	221,479
TCB Total		11,333	117,329	128,662
Total weight	110,746	3,623,306	5,258,274	8,992,326

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G-1,4 BLOCK- 1										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1891* 20	10462	157.0	3105	3105	SM490YB		
1	RIB	PL	220* 19	730	149.2	24.0	24	SM490YB		
1	RIB	PL	220* 19	980	149.2	32.2	32	SM490YB		
1	RIB	PL	220* 19	9189	149.2	302	302	SM490YB		
1	RIB	PL	220* 19	9427	149.2	309	309	SM490YB		
1	LWEB	PL	3064* 12	10495	94.20	3029	3029	SM490YA		
1	RWEB	PL	2714* 12	10427	94.20	2666	2666	SM490YA		
3	HSTFL	PL	160* 16	2645	125.6	53.2	160	SM490YA		
1	HSTFL	PL	160* 16	1050	125.6	21.1	21	SM490YA		
1	HSTFL	PL	160* 16	1280	125.6	25.7	26	SM400A		
1	HSTFL	PL	160* 16	1295	125.6	26.0	26	SM400A		
1	HSTFL	PL	160* 16	1265	125.6	25.4	25	SM400A		
1	HSTFL	PL	160* 16	1310	125.6	26.3	26	SM400A		
1	HSTFL	PL	160* 16	1250	125.6	25.1	25	SM400A		
1	HSTFL	PL	160* 16	1325	125.6	26.6	27	SM400A		
1	HSTFL	PL	160* 16	1050	125.6	21.1	21	SM400A		
1	HSTFR	PL	160* 16	1280	125.6	25.7	26	SM490YA		
1	HSTFR	PL	160* 16	1270	125.6	25.5	26	SM490YA		
1	HSTFR	PL	160* 16	1295	125.6	26.0	26	SM490YA		
1	HSTFR	PL	160* 16	1260	125.6	25.3	25	SM490YA		
1	HSTFR	PL	160* 16	1305	125.6	26.2	26	SM490YA		
1	HSTFR	PL	160* 16	1255	125.6	25.2	25	SM490YA		
1	HSTFR	PL	160* 16	1050	125.6	21.1	21	SM490YA		
1	HSTFR	PL	160* 16	1280	125.6	25.7	26	SM400A		
1	HSTFR	PL	160* 16	1270	125.6	25.5	26	SM400A		
1	HSTFR	PL	160* 16	1295	125.6	26.0	26	SM400A		
1	HSTFR	PL	160* 16	1260	125.6	25.3	25	SM400A		
1	HSTFR	PL	160* 16	1305	125.6	26.2	26	SM400A		
1	HSTFR	PL	160* 16	1255	125.6	25.2	25	SM400A		
1	HSTFR	PL	160* 16	1050	125.6	21.1	21	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
3	VSTFL	PL	170* 16	1693	125.6	36.1	108	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
3	VSTFR	PL	170* 16	1444	125.6	30.8	92	SM400A		
3	RIB	PL	192* 19	264	149.2	7.56	23	SM490YB		RIB
1	SOLE	PL	1040* 30	870	235.5	213	213	SM490B		SOLE
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		P13
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		P13
1	DIA	PL	2714* 11	2980	86.35	698	698	SM400A		P13
2	VSTFF	PL	220* 25	2300	196.2	99.3	199	SM400A		P13

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	100* 9	1403	70.65	9.91	20	SM400A	P13
2		PL	100* 9	185	70.65	1.31	3	SM400A	P13
2		PL	100* 9	926	70.65	6.54	13	SM400A	P13
2		PL	130* 12	609	94.20	7.46	15	SM400A	P13
2		PL	130* 12	185	94.20	2.27	5	SM400A	P13
2		PL	130* 12	926	94.20	11.3	23	SM400A	P13
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	P13
2		PL	100* 9	171	70.65	1.21	2	SM400A	P13
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	P13
3	WEB	PL	739* 9	594	70.65	31.0	93	SM400A	R1,R2,R3
3	FLG	PL	200* 10	615	78.50	9.66	29	SM400A	R1,R2,R3
3	WEB	PL	750* 9	2981	70.65	158	474	SM400A	R1,R2,R3
3	FLG	PL	200* 10	2564	78.50	40.3	121	SM400A	R1,R2,R3
3	WEB	PL	500* 9	1770	70.65	62.5	188	SM400A	R1,R2,R3
3	FLG	PL	100* 10	1776	78.50	13.9	42	SM400A	R1,R2,R3
3	WEB	PL	171* 9	753	70.65	9.10	27	SM400A	R1,R2,R3
3	FLG	PL	200* 10	171	78.50	2.68	8	SM400A	R1,R2,R3
BLOCK- 1							13013 kg		
2@ BLOCK- 1							26026 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 2

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 38	10098	298.3	5572	5572	SM490YB		
2	RIB	PL	220* 19	10099	149.2	332	664	SM490YB		
1	LWEB	PL	3044* 12	10120	94.20	2902	2902	SM490YA		
1	RWEB	PL	2714* 12	10106	94.20	2584	2584	SM490YA		
1	HSTFL	PL	160* 16	1010	125.6	20.3	20	SM490YA		
1	HSTFL	PL	160* 16	2480	125.6	49.8	50	SM490YA		
1	HSTFL	PL	160* 16	2470	125.6	49.6	50	SM490YA		
1	HSTFL	PL	160* 16	2430	125.6	48.8	49	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	1020	125.6	20.5	20	SM400A		
1	HSTFL	PL	160* 16	1170	125.6	23.5	24	SM400A		
3	HSTFL	PL	160* 16	1230	125.6	24.7	74	SM400A		
2	HSTFL	PL	160* 16	1135	125.6	22.8	46	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	1090	125.6	21.9	22	SM490YA		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM490YA		
3	HSTFR	PL	160* 16	1155	125.6	23.2	70	SM490YA		
2	HSTFR	PL	160* 16	1210	125.6	24.3	49	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFR	PL	160* 16	1290	125.6	25.9	26	SM400A			
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM400A			
3	HSTFR	PL	160* 16	1155	125.6	23.2	70	SM400A			
2	HSTFR	PL	160* 16	1210	125.6	24.3	49	SM400A			
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A			
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A			
3	VSTFL	PL	170* 16	1693	125.6	36.1	108	SM400A			
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A			
3	VSTFR	PL	170* 16	1444	125.6	30.8	92	SM400A			
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C1	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C1	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C1	
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C1	
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C1	
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C1	
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C1	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C1	
2		PL	100* 9	171	70.65	1.21	2	SM400A		C1	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C1	
3	WEB	PL	739* 9	594	70.65	31.0	93	SM400A		R4,R5,R6	
3	FLG	PL	200* 10	615	78.50	9.66	29	SM400A		R4,R5,R6	
3	WEB	PL	750* 9	2981	70.65	158	474	SM400A		R4,R5,R6	
3	FLG	PL	200* 10	2564	78.50	40.3	121	SM400A		R4,R5,R6	
3	WEB	PL	500* 9	1770	70.65	62.5	188	SM400A		R4,R5,R6	
3	FLG	PL	100* 10	1776	78.50	13.9	42	SM400A		R4,R5,R6	
3	WEB	PL	171* 9	753	70.65	9.10	27	SM400A		R4,R5,R6	
3	FLG	PL	200* 10	171	78.50	2.68	8	SM400A		R4,R5,R6	
								BLOCK- 2			14813 kg
								2@ BLOCK- 2			29626 kg

## Calculation Weight Main Girder G-1,4 BLOCK- 3

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 46	9998	361.1	6680	6680	SM570-H		
2	RIB	PL	220* 19	9999	149.2	328	656	SM570		
1	LWEB	PL	3044* 12	10014	94.20	2871	2871	SM570		
1	RWEB	PL	2714* 12	10006	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	910	125.6	18.3	18	SM490YA		
1	HSTFL	PL	160* 16	2480	125.6	49.8	50	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	920	125.6	18.5	18	SM400A		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	1170	125.6	23.5	24	SM400A		
3	HSTFL	PL	160* 16	1230	125.6	24.7	74	SM400A		
2	HSTFL	PL	160* 16	1135	125.6	22.8	46	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	990	125.6	19.9	20	SM490YA		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM490YA		
3	HSTFR	PL	160* 16	1155	125.6	23.2	70	SM490YA		
2	HSTFR	PL	160* 16	1210	125.6	24.3	49	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	990	125.6	19.9	20	SM400A		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM400A		
3	HSTFR	PL	160* 16	1155	125.6	23.2	70	SM400A		
2	HSTFR	PL	160* 16	1210	125.6	24.3	49	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
3	VSTFL	PL	170* 16	1693	125.6	36.1	108	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
3	VSTFR	PL	170* 16	1444	125.6	30.8	92	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C2
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C2
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C2
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C2
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C2
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C2
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C2
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C2
2		PL	100* 9	171	70.65	1.21	2	SM400A		C2
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C2
3	WEB	PL	739* 9	594	70.65	31.0	93	SM400A		R7,R8,R9
3	FLG	PL	200* 10	615	78.50	9.66	29	SM400A		R7,R8,R9
3	WEB	PL	750* 9	2981	70.65	158	474	SM400A		R7,R8,R9
3	FLG	PL	200* 10	2564	78.50	40.3	121	SM400A		R7,R8,R9
3	WEB	PL	500* 9	1770	70.65	62.5	188	SM400A		R7,R8,R9
3	FLG	PL	100* 10	1776	78.50	13.9	42	SM400A		R7,R8,R9
3	WEB	PL	171* 9	753	70.65	9.10	27	SM400A		R7,R8,R9
3	FLG	PL	200* 10	171	78.50	2.68	8	SM400A		R7,R8,R9
BLOCK- 3								15839 kg		
2@ BLOCK- 3								31678 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 4

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
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## Caluculation of Steel Weight

(Unit ; mm,kg)

1	LFLG	PL	1850* 52	9998	408.2	7552	7552	SM570-H		
2	RIB	PL	220* 19	9999	149.2	328	656	SM570		
1	LWEB	PL	3044* 12	10014	94.20	2871	2871	SM570		
1	RWEB	PL	2714* 12	10006	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	835	125.6	16.8	17	SM490YA		
1	HSTFL	PL	160* 16	2480	125.6	49.8	50	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	845	125.6	17.0	17	SM400A		
1	HSTFL	PL	160* 16	1170	125.6	23.5	24	SM400A		
3	HSTFL	PL	160* 16	1230	125.6	24.7	74	SM400A		
2	HSTFL	PL	160* 16	1135	125.6	22.8	46	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	915	125.6	18.4	18	SM490YA		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM490YA		
3	HSTFR	PL	160* 16	1155	125.6	23.2	70	SM490YA		
2	HSTFR	PL	160* 16	1210	125.6	24.3	49	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	915	125.6	18.4	18	SM400A		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM400A		
3	HSTFR	PL	160* 16	1155	125.6	23.2	70	SM400A		
2	HSTFR	PL	160* 16	1210	125.6	24.3	49	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
3	VSTFL	PL	170* 16	1693	125.6	36.1	108	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
3	VSTFR	PL	170* 16	1444	125.6	30.8	92	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C3
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C3
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C3
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C3
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C3
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C3
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C3
2		PL	100* 9	171	70.65	1.21	2	SM400A		C3
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C3
3	WEB	PL	739* 9	594	70.65	31.0	93	SM400A		R10,R11,R13
3	FLG	PL	200* 10	615	78.50	9.66	29	SM400A		R10,R11,R13
3	WEB	PL	750* 9	2981	70.65	158	474	SM400A		R10,R11,R13
3	FLG	PL	200* 10	2564	78.50	40.3	121	SM400A		R10,R11,R13
3	WEB	PL	500* 9	1770	70.65	62.5	188	SM400A		R10,R11,R13
3	FLG	PL	100* 10	1776	78.50	13.9	42	SM400A		R10,R11,R13

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	WEB	PL	171* 9	753	70.65	9.10	27	SM400A	R10,R11,R13
3	FLG	PL	200* 10	171	78.50	2.68	8	SM400A	R10,R11,R13
BLOCK- 4								16705 kg	
2@ BLOCK- 4								33410 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 5

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 52	10022	408.2	7568	7568	SM570-H		
2	RIB	PL	220* 19	10006	149.2	328	656	SM570		
1	LWEB	PL	3059* 12	9998	94.20	2881	2881	SM570		
1	RWEB	PL	2714* 12	10028	94.20	2564	2564	SM570		
1	HSTFL	PL	160* 16	835	125.6	16.8	17	SM490YA		
1	HSTFL	PL	160* 16	2480	125.6	49.8	50	SM490YA		
1	HSTFL	PL	160* 16	2420	125.6	48.6	49	SM490YA		
1	HSTFL	PL	160* 16	2150	125.6	43.2	43	SM490YA		
1	HSTFL	PL	160* 16	870	125.6	17.5	18	SM490YA		
1	HSTFL	PL	160* 16	845	125.6	17.0	17	SM400A		
1	HSTFL	PL	160* 16	1170	125.6	23.5	24	SM400A		
1	HSTFL	PL	160* 16	1230	125.6	24.7	25	SM400A		
1	HSTFL	PL	160* 16	1140	125.6	22.9	23	SM400A		
1	HSTFL	PL	160* 16	1220	125.6	24.5	24	SM400A		
1	HSTFL	PL	160* 16	1150	125.6	23.1	23	SM400A		
1	HSTFL	PL	160* 16	1205	125.6	24.2	24	SM400A		
1	HSTFL	PL	160* 16	870	125.6	17.5	18	SM400A		
1	HSTFR	PL	160* 16	905	125.6	18.2	18	SM490YA		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFR	PL	160* 16	1155	125.6	23.2	23	SM490YA		
1	HSTFR	PL	160* 16	1210	125.6	24.3	24	SM490YA		
1	HSTFR	PL	160* 16	1160	125.6	23.3	23	SM490YA		
1	HSTFR	PL	160* 16	1205	125.6	24.2	24	SM490YA		
1	HSTFR	PL	160* 16	1170	125.6	23.5	24	SM490YA		
1	HSTFR	PL	160* 16	880	125.6	17.7	18	SM490YA		
1	HSTFR	PL	160* 16	905	125.6	18.2	18	SM400A		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM400A		
1	HSTFR	PL	160* 16	1155	125.6	23.2	23	SM400A		
1	HSTFR	PL	160* 16	1210	125.6	24.3	24	SM400A		
1	HSTFR	PL	160* 16	1160	125.6	23.3	23	SM400A		
1	HSTFR	PL	160* 16	1205	125.6	24.2	24	SM400A		
1	HSTFR	PL	160* 16	1170	125.6	23.5	24	SM400A		
1	HSTFR	PL	160* 16	880	125.6	17.7	18	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	VSTFL	PL	170* 16	1693	125.6	36.1	108	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
3	VSTFR	PL	170* 16	1444	125.6	30.8	92	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C4
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C4
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C4
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C4
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C4
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C4
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C4
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C4
2		PL	100* 9	171	70.65	1.21	2	SM400A		C4
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C4
3	WEB	PL	739* 9	594	70.65	31.0	93	SM400A		R13,R14,R15
3	FLG	PL	200* 10	615	78.50	9.66	29	SM400A		R13,R14,R15
3	WEB	PL	750* 9	2981	70.65	158	474	SM400A		R13,R14,R15
3	FLG	PL	200* 10	2564	78.50	40.3	121	SM400A		R13,R14,R15
3	WEB	PL	500* 9	1770	70.65	62.5	188	SM400A		R13,R14,R15
3	FLG	PL	100* 10	1776	78.50	13.9	42	SM400A		R13,R14,R15
3	WEB	PL	171* 9	753	70.65	9.10	27	SM400A		R13,R14,R15
3	FLG	PL	200* 10	171	78.50	2.68	8	SM400A		R13,R14,R15
							BLOCK- 5		16728 kg	
							2@ BLOCK- 5		33456 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 6

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1854* 52	10003	408.2	7572	7572	SM570-H		
2	RIB	PL	220* 19	9999	149.2	328	656	SM570		
1	LWEB	PL	3046* 12	10006	94.20	2871	2871	SM570		
1	RWEB	PL	2714* 12	10010	94.20	2559	2559	SM570		
1	HSTFL	PL	160* 16	865	125.6	17.4	17	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	870	125.6	17.5	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	885	125.6	17.8	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	885	125.6	17.8	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A			
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A			
3	VSTFL	PL	170* 16	1693	125.6	36.1	108	SM400A			
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A			
3	VSTFR	PL	170* 16	1444	125.6	30.8	92	SM400A			
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C5	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C5	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C5	
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C5	
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C5	
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C5	
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C5	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C5	
2		PL	100* 9	171	70.65	1.21	2	SM400A		C5	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C5	
3	WEB	PL	739* 9	594	70.65	31.0	93	SM400A		R16,R17,R18	
3	FLG	PL	200* 10	615	78.50	9.66	29	SM400A		R16,R17,R18	
3	WEB	PL	750* 9	2981	70.65	158	474	SM400A		R16,R17,R18	
3	FLG	PL	200* 10	2564	78.50	40.3	121	SM400A		R16,R17,R18	
3	WEB	PL	500* 9	1770	70.65	62.5	188	SM400A		R16,R17,R18	
3	FLG	PL	100* 10	1776	78.50	13.9	42	SM400A		R16,R17,R18	
3	WEB	PL	171* 9	753	70.65	9.10	27	SM400A		R16,R17,R18	
3	FLG	PL	200* 10	171	78.50	2.68	8	SM400A		R16,R17,R18	
								BLOCK- 6			16721 kg
								2@ BLOCK- 6			33442 kg

## Calculation Weight Main Girder G-1,4 BLOCK- 7

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 46	9999	361.1	6680	6680	SM570-H		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM570		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A			
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A			
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A			
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A			
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A			
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A			
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A			
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C6	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C6	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C6	
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C6	
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C6	
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C6	
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C6	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C6	
2		PL	100* 9	171	70.65	1.21	2	SM400A		C6	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C6	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R19,R21	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R19,R21	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R19,R21	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R19,R21	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R19,R21	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R19,R21	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R19,R21	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R19,R21	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R20	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R20	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R20	
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R20	
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R20	
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R20	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R20	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R20	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R20	
							BLOCK- 7				16191 kg
							2@ BLOCK- 7				32382 kg

## Calculation Weight Main Girder G-1,4 BLOCK- 8

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 30	9995	235.5	4354	4354	SM570		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	RIB	PL	220* 19	1244	149.2	40.8	122	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM570		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C7
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C7
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C7
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C7
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C7
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C7
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C7
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C7
2		PL	100* 9	171	70.65	1.21	2	SM400A		C7
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C7
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R22,R24
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R22,R24
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R22,R24
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R22,R24
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R22,R24
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R22,R24
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R22,R24
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R22,R24
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R23
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R23
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R23
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R23
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R23
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R23

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R23	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R23	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R23	
BLOCK- 8							13991 kg			
2@ BLOCK- 8							27982 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 9

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 16	9995	125.6	2322	2322	SM490YA		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	2430	125.6	48.8	49	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C8
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C8
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C8
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C8
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C8
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C8
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C8
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C8



## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	100* 9	171	70.65	1.21	2	SM400A	C8	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C8	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R25,R27	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R25,R27	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R25,R27	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R25,R27	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R25,R27	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R25,R27	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R25,R27	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R25,R27	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R26	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R26	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R26	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R26	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R26	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R26	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R26	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R26	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R26	
BLOCK- 9							13111 kg			
2@ BLOCK- 9							26222 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 10

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 24	9995	188.4	3484	3484	SM570		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM570		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM570		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	VSTFL	PL	170* 16	3133	125.6	66.9	201	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFL	PL	170* 16	1686	125.6	36.0	72	SM400A			
3	VSTFR	PL	170* 16	2708	125.6	57.8	173	SM400A			
2	VSTFR	PL	170* 16	1438	125.6	30.7	61	SM400A			
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C9	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C9	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C9	
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C9	
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C9	
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C9	
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C9	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C9	
2		PL	100* 9	171	70.65	1.21	2	SM400A		C9	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C9	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R28,R30	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R28,R30	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R28,R30	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R28,R30	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R28,R30	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R28,R30	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R28,R30	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R28,R30	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R29	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R29	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R29	
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R29	
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R29	
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R29	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R29	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R29	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R29	
								BLOCK- 10			13981 kg
								2@ BLOCK- 10			27962 kg

## Calculation Weight Main Girder G-1,4 BLOCK- 11

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 43	7495	337.6	4683	4683	SM570-H		
5	RIB	PL	220* 19	7496	149.2	246	1230	SM570		
1	LWEB	PL	3033* 12	7503	94.20	2144	2144	SM570		
1	RWEB	PL	2704* 12	7503	94.20	1911	1911	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
2	VSTFL	PL	170* 16	3128	125.6	66.8	134	SM400A		
1	VSTFL	PL	170* 16	1680	125.6	35.9	36	SM400A		
2	VSTFR	PL	170* 16	2703	125.6	57.7	115	SM400A		
1	VSTFR	PL	170* 16	1433	125.6	30.6	31	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C10
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C10
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C10
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C10
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C10
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C10
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C10
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C10
2		PL	100* 9	171	70.65	1.21	2	SM400A		C10
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C10
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R31
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R31
1	WEB	PL	750* 9	2981	70.65	158	158	SM400A		R31
1	FLG	PL	200* 10	2564	78.50	40.3	40	SM400A		R31
1	WEB	PL	500* 9	1770	70.65	62.5	62	SM400A		R31
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R31
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R31
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R31
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R32
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R32
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R32
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R32
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R32
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R32
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R32
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R32
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R32
BLOCK- 11										
							12689 kg			

## Caluculation of Steel Weight

(Unit ; mm,kg)

2@ BLOCK- 11

25378 kg

Calculation Weight Main Girder G-1,4 BLOCK- 12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 52	6745	408.2	5094	5094	SM570-H		
2	RIB	PL	220* 19	6746	149.2	221	442	SM570		
2	RIB	PL	220* 19	3438	149.2	113	226	SM570		
1	RIB	PL	220* 19	3247	149.2	107	107	SM570		
2	RIB	PL	220* 19	2688	149.2	88.2	176	SM570		
1	RIB	PL	220* 19	2498	149.2	82.0	82	SM570		
1	LWEB	PL	3033* 14	6753	109.9	2251	2251	SM570		
1	RWEB	PL	2704* 14	6753	109.9	2007	2007	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
2	HSTFL	PL	160* 16	1180	125.6	23.7	47	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
2	HSTFL	PL	160* 16	1180	125.6	23.7	47	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
2	HSTFR	PL	160* 16	1180	125.6	23.7	47	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
2	HSTFR	PL	160* 16	1180	125.6	23.7	47	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	VSTFL	PL	170* 16	3128	125.6	66.8	134	SM400A		
2	VSTFL	PL	170* 16	1680	125.6	35.9	72	SM400A		
2	VSTFR	PL	170* 16	2703	125.6	57.7	115	SM400A		
2	VSTFR	PL	170* 16	1433	125.6	30.6	61	SM400A		
1	SOLE	PL	1340* 45	970	353.2	459	459	SM490C		
1	WEB	PL	739* 9	597	70.65	31.2	31	SM400A		P14
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		P14
1	DIA	PL	2703* 19	2974	149.2	1199	1199	SM400A		P14
2	VSTFF	PL	270* 30	2300	235.5	146	292	SM400A		P14
2		PL	100* 9	1171	70.65	8.27	17	SM400A		P14
2		PL	100* 9	370	70.65	2.61	5	SM400A		P14
2		PL	100* 9	957	70.65	6.76	14	SM400A		P14
2		PL	130* 12	383	94.20	4.69	9	SM400A		P14
2		PL	130* 12	370	94.20	4.53	9	SM400A		P14

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	130* 12	957	94.20	11.7	23	SM400A	P14	
1	WEB	PL	2207* 9	169	70.65	26.4	26	SM400A	P14	
2		PL	100* 9	171	70.65	1.21	2	SM400A	P14	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	P14	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R33,R34	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R33,R34	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R33,R34	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R33,R34	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R33,R34	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R33,R34	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R33,R34	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R33,R34	
BLOCK- 12							13981 kg			
2@ BLOCK- 12							27962 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 13

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 47	9995	369.0	6823	6823	SM570-H		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM570		
1	LWEB	PL	3033* 12	10003	94.20	2858	2858	SM570		
1	RWEB	PL	2704* 12	10003	94.20	2548	2548	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
3	VSTFL	PL	170* 16	3128	125.6	66.8	200	SM400A		
2	VSTFL	PL	170* 16	1680	125.6	35.9	72	SM400A		
3	VSTFR	PL	170* 16	2703	125.6	57.7	173	SM400A		
2	VSTFR	PL	170* 16	1433	125.6	30.6	61	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C11
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C11
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C11
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C11

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	200* 9	1446	70.65	20.4	41	SM400A	C11	
2		PL	100* 9	2564	70.65	18.1	36	SM400A	C11	
2		PL	130* 9	1770	70.65	16.3	33	SM400A	C11	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	C11	
2		PL	100* 9	171	70.65	1.21	2	SM400A	C11	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C11	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R35,R38	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R35,R38	
2	DIA	PL	2714* 9	2980	70.65	571	1142	SM400A	R35,R38	
4		PL	200* 9	1414	70.65	20.0	80	SM400A	R35,R38	
4		PL	200* 9	1435	70.65	20.3	81	SM400A	R35,R38	
4		PL	100* 10	2564	78.50	20.1	80	SM400A	R35,R38	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R35,R38	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R35,R38	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R35,R38	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R36,R37	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R36,R37	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R36,R37	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R36,R37	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R36,R37	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R36,R37	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R36,R37	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R36,R37	
BLOCK- 13							18043 kg			
2@ BLOCK- 13							36086 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 14

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 27	9245	212.0	3625	3625	SM490YB		
5	RIB	PL	220* 19	9246	149.2	303	1515	SM490YB		
1	LWEB	PL	3044* 12	9253	94.20	2654	2654	SM490YA		
1	RWEB	PL	2714* 12	9253	94.20	2365	2365	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3133	125.6	66.9	201	SM400A		
2	VSTFL	PL	170* 16	1686	125.6	36.0	72	SM400A		
3	VSTFR	PL	170* 16	2708	125.6	57.8	173	SM400A		
2	VSTFR	PL	170* 16	1438	125.6	30.7	61	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C12
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C12
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C12
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C12
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C12
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C12
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C12
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C12
2		PL	100* 9	171	70.65	1.21	2	SM400A		C12
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C12
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R39,R40
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R39,R40
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R39,R40
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R39,R40
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R39,R40
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R39,R40
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R39,R40
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R39,R40
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R41
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R41
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R41
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R41
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R41
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R41
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R41
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R41
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R41
								BLOCK- 14		13530 kg
								2@ BLOCK- 14		27060 kg

Calculation Weight Main Girder G-1,4 BLOCK- 15

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 16	9995	125.6	2322	2322	SM490YA		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C13
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C13
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C13
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C13
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C13
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C13
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C13
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C13
2		PL	100* 9	171	70.65	1.21	2	SM400A		C13
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C13
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R42,R43
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R42,R43
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R42,R43
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R42,R43
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R42,R43
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R42,R43
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R42,R43
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R42,R43
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R44
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R44
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R44



## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	200* 9	1414	70.65	20.0	40	SM400A	R44	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R44	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R44	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R44	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R44	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R44	
BLOCK- 15							12825 kg			
2@ BLOCK- 15							25650 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 16

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 14	9995	109.9	2032	2032	SM490YA		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	VSTFL	PL	170* 16	3140	125.6	67.0	134	SM400A		
1	VSTFL	PL	170* 16	3100	125.6	66.2	66	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
2	VSTFR	PL	170* 16	2714	125.6	58.0	116	SM400A		
1	VSTFR	PL	170* 16	2679	125.6	57.2	57	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C14
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C14
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C14

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	200* 9	1425	70.65	20.1	40	SM400A	C14
2		PL	200* 9	1446	70.65	20.4	41	SM400A	C14
2		PL	100* 9	2564	70.65	18.1	36	SM400A	C14
2		PL	130* 9	1770	70.65	16.3	33	SM400A	C14
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	C14
2		PL	100* 9	171	70.65	1.21	2	SM400A	C14
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C14
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R45,R46
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R45,R46
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R45,R46
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R45,R46
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R45,R46
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R45,R46
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R45,R46
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R45,R46
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R47
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R47
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R47
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R47
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R47
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R47
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R47
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R47
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R47
BLOCK- 16							12821 kg		
2@ BLOCK- 16							25642 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 17

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 20	9995	157.0	2903	2903	SM490YB		
3	RIB	PL	220* 19	1244	149.2	40.8	122	SM490YB		
2	RIB	PL	220* 19	9996	149.2	328	656	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C15
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C15
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C15
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C15
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C15
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C15
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C15
2		PL	100* 9	171	70.65	1.21	2	SM400A		C15
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C15
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R48,R49
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R48,R49
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R48,R49
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R48,R49
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R48,R49
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R48,R49
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R48,R49
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R48,R49
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R50
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R50
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R50
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R50
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R50
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R50
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R50
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R50
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R50
BLOCK- 17								12544 kg		
2@ BLOCK- 17								25088 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 18

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
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## Caluculation of Steel Weight

(Unit ; mm,kg)

1	LFLG	PL	1850* 22	7495	172.7	2395	2395	SM490YB		
2	RIB	PL	220* 19	7496	149.2	246	492	SM490YB		
3	RIB	PL	220* 19	1244	149.2	40.8	122	SM490YB		
1	LWEB	PL	3044* 12	7503	94.20	2152	2152	SM490YA		
1	RWEB	PL	2714* 12	7503	94.20	1918	1918	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
2	VSTFL	PL	170* 16	3100	125.6	66.2	132	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
2	VSTFR	PL	170* 16	2679	125.6	57.2	114	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C16
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C16
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C16
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C16
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C16
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C16
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C16
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C16
2		PL	100* 9	171	70.65	1.21	2	SM400A		C16
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C16
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R51,R52
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R51,R52
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R51,R52
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R51,R52
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R51,R52
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R51,R52
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R51,R52
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R51,R52
BLOCK- 18								9443 kg		
2@ BLOCK- 18								18886 kg		

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G-1,4 BLOCK- 19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 19	9995	149.2	2759	2759	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C17
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C17
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C17
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C17
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C17
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C17
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C17
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C17
2		PL	100* 9	171	70.65	1.21	2	SM400A		C17
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C17
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R53
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R53
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R53
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R53
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R53
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R53
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R53
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R53
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R53
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R54,R55

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R54,R55	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R54,R55	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R54,R55	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R54,R55	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R54,R55	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R54,R55	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R54,R55	
BLOCK- 19							13262 kg			
2@ BLOCK- 19							26524 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 20

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 17	9995	133.4	2467	2467	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C18
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C18
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C18
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C18
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C18
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C18
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C18
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C18
2		PL	100* 9	171	70.65	1.21	2	SM400A		C18

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C18	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R56	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R56	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R56	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R56	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R56	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R56	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R56	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R56	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R56	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R57,R58	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R57,R58	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R57,R58	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R57,R58	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R57,R58	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R57,R58	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R57,R58	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R57,R58	
BLOCK- 20							12970 kg			
2@ BLOCK- 20							25940 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 21

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 17	9995	133.4	2467	2467	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	2430	125.6	48.8	49	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A				
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA				
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA				
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A				
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A				
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A				
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A				
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C19		
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C19		
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C19		
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C19		
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C19		
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C19		
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C19		
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C19		
2		PL	100* 9	171	70.65	1.21	2	SM400A		C19		
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C19		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R59		
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R59		
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R59		
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R59		
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R59		
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R59		
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R59		
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R59		
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R59		
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R60,R61		
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R60,R61		
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R60,R61		
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R60,R61		
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R60,R61		
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R60,R61		
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R60,R61		
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R60,R61		
							BLOCK- 21				13256 kg	
							2@ BLOCK- 21				26512 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 22

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 17	9245	133.4	2281	2281	SM490YB		
5	RIB	PL	220* 19	9246	149.2	303	1515	SM490YB		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	LWEB	PL	3044* 12	9253	94.20	2654	2654	SM490YA		
1	RWEB	PL	2714* 12	9253	94.20	2365	2365	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C20
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C20
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C20
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C20
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C20
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C20
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C20
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C20
2		PL	100* 9	171	70.65	1.21	2	SM400A		C20
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C20
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R62
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R62
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R62
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R62
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R62
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R62
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R62
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R62
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R62
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R63,R64
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R63,R64

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R63,R64
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R63,R64
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R63,R64
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R63,R64
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R63,R64
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R63,R64
BLOCK- 22								12192 kg	
2@ BLOCK- 22								24384 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 23

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 30	9995	235.5	4354	4354	SM570		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM570		
1	LWEB	PL	3041* 12	10003	94.20	2866	2866	SM570		
1	RWEB	PL	2711* 12	10003	94.20	2555	2555	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	3137	125.6	67.0	268	SM400A		
2	VSTFL	PL	170* 16	1690	125.6	36.1	72	SM400A		
4	VSTFR	PL	170* 16	2711	125.6	57.9	232	SM400A		
2	VSTFR	PL	170* 16	1441	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C21
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C21
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C21
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C21
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C21
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C21
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C21
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C21
2		PL	100* 9	171	70.65	1.21	2	SM400A		C21
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C21

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R65,R68
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R65,R68
2	DIA	PL	2714* 9	2980	70.65	571	1142	SM400A	R65,R68
4		PL	200* 9	1414	70.65	20.0	80	SM400A	R65,R68
4		PL	200* 9	1435	70.65	20.3	81	SM400A	R65,R68
4		PL	100* 10	2564	78.50	20.1	80	SM400A	R65,R68
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R65,R68
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R65,R68
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R65,R68
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R66,R67
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R66,R67
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R66,R67
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R66,R67
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R66,R67
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R66,R67
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R66,R67
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R66,R67
BLOCK- 23									15721 kg
2@ BLOCK- 23									31442 kg

## Calculation Weight Main Girder G-1,4 BLOCK- 24

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 38	5995	298.3	3308	3308	SM570		
2	RIB	PL	220* 19	5996	149.2	197	394	SM570		
4	RIB	PL	220* 19	2718	149.2	89.2	357	SM570		
2	RIB	PL	220* 19	2498	149.2	82.0	164	SM570		
1	LWEB	PL	3041* 12	6003	94.20	1720	1720	SM570		
1	RWEB	PL	2711* 12	6003	94.20	1533	1533	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	VSTFL	PL	170* 16	3137	125.6	67.0	134	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFL	PL	170* 16	1690	125.6	36.1	72	SM400A			
2	VSTFR	PL	170* 16	2711	125.6	57.9	116	SM400A			
2	VSTFR	PL	170* 16	1441	125.6	30.8	62	SM400A			
1	SOLE	PL	1340* 40	970	314.0	408	408	SM490B			
1	WEB	PL	739* 9	597	70.65	31.2	31	SM400A		P15	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		P15	
1	DIA	PL	2711* 19	2927	149.2	1184	1184	SM400A		P15	
2	VSTFF	PL	240* 27	2300	212.0	117	234	SM400A		P15	
2		PL	100* 9	1177	70.65	8.32	17	SM400A		P15	
2		PL	100* 9	373	70.65	2.64	5	SM400A		P15	
2		PL	100* 9	959	70.65	6.78	14	SM400A		P15	
2		PL	130* 12	385	94.20	4.71	9	SM400A		P15	
2		PL	130* 12	373	94.20	4.57	9	SM400A		P15	
2		PL	130* 12	959	94.20	11.7	23	SM400A		P15	
1	WEB	PL	2215* 9	171	70.65	26.8	27	SM400A		P15	
2		PL	100* 9	169	70.65	1.19	2	SM400A		P15	
1	FLG	PL	250* 12	169	94.20	3.98	4	SM400A		P15	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R69,R70	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R69,R70	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R69,R70	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R69,R70	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R69,R70	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R69,R70	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R69,R70	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R69,R70	
								BLOCK- 24			10895 kg
								2@ BLOCK- 24			21790 kg

## Calculation Weight Main Girder G-1,4 BLOCK- 25

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 30	9995	235.5	4354	4354	SM570		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
3	RIB	PL	220* 19	9000	149.2	295	885	SM570		
1	LWEB	PL	3041* 12	10003	94.20	2866	2866	SM570		
1	RWEB	PL	2711* 12	10003	94.20	2555	2555	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	3137	125.6	67.0	268	SM400A		
2	VSTFL	PL	170* 16	1690	125.6	36.1	72	SM400A		
4	VSTFR	PL	170* 16	2711	125.6	57.9	232	SM400A		
2	VSTFR	PL	170* 16	1441	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C22
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C22
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C22
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C22
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C22
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C22
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C22
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C22
2		PL	100* 9	171	70.65	1.21	2	SM400A		C22
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C22
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R71,R74
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R71,R74
2	DIA	PL	2714* 9	2980	70.65	571	1142	SM400A		R71,R74
4		PL	200* 9	1414	70.65	20.0	80	SM400A		R71,R74
4		PL	200* 9	1435	70.65	20.3	81	SM400A		R71,R74
4		PL	100* 10	2564	78.50	20.1	80	SM400A		R71,R74
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R71,R74
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R71,R74
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R71,R74
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R72,R73
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R72,R73
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R72,R73
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R72,R73
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R72,R73
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R72,R73
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R72,R73
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R72,R73
								BLOCK- 25		15618 kg
								2@ BLOCK- 25		31236 kg

Calculation Weight Main Girder G-1,4 BLOCK- 26

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 18	9245	141.3	2416	2416	SM570		
2	RIB	PL	220* 19	9246	149.2	303	606	SM570		
1	LWEB	PL	3044* 12	9253	94.20	2654	2654	SM570		
1	RWEB	PL	2714* 12	9253	94.20	2365	2365	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C23
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C23
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C23
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C23
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C23
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C23
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C23
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C23
2		PL	100* 9	171	70.65	1.21	2	SM400A		C23
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C23
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R75,R76
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R75,R76
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R75,R76
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R75,R76
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R75,R76
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R75,R76
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R75,R76
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R75,R76

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R77	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R77	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R77	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R77	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R77	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R77	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R77	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R77	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R77	
BLOCK- 26							11414 kg			
2@ BLOCK- 26							22828 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 27

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 13	9995	102.0	1886	1886	SM490YA		
2	RIB	PL	220* 19	9996	149.2	328	656	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C24
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C24
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C24

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	200* 9	1425	70.65	20.1	40	SM400A	C24	
2		PL	200* 9	1446	70.65	20.4	41	SM400A	C24	
2		PL	100* 9	2564	70.65	18.1	36	SM400A	C24	
2		PL	130* 9	1770	70.65	16.3	33	SM400A	C24	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	C24	
2		PL	100* 9	171	70.65	1.21	2	SM400A	C24	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C24	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R78,R79	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R78,R79	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R78,R79	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R78,R79	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R78,R79	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R78,R79	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R78,R79	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R78,R79	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R80	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R80	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R80	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R80	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R80	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R80	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R80	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R80	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R80	
BLOCK- 27							11692 kg			
2@ BLOCK- 27							23384 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 28

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 17	9995	133.4	2467	2467	SM570		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM570		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C25
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C25
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C25
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C25
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C25
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C25
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C25
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C25
2		PL	100* 9	171	70.65	1.21	2	SM400A		C25
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C25
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R81,R82
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R81,R82
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R81,R82
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R81,R82
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R81,R82
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R81,R82
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R81,R82
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R81,R82
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R83
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R83
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R83
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R83
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R83
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R83
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R83
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R83
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R83
BLOCK- 28								11982 kg		
2@ BLOCK- 28								23964 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 29

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 25	9995	196.2	3628	3628	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
3	RIB	PL	220* 19	1244	149.2	40.8	122	SM570		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM570		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C26
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C26
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C26
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C26
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C26
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C26
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C26
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C26
2		PL	100* 9	171	70.65	1.21	2	SM400A		C26
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C26
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R84,R85
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R84,R85
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R84,R85
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R84,R85
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R84,R85
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R84,R85
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R84,R85
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R84,R85
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R86
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R86
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R86
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R86
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R86

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	100* 10	2564	78.50	20.1	40	SM400A	R86	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R86	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R86	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R86	
BLOCK- 29							13263 kg			
2@ BLOCK- 29							26526 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 30

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 20	7495	157.0	2178	2178	SM570		
5	RIB	PL	220* 19	7496	149.2	246	1230	SM570		
1	LWEB	PL	3044* 12	7503	94.20	2152	2152	SM570		
1	RWEB	PL	2714* 12	7503	94.20	1918	1918	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
2	VSTFL	PL	170* 16	3100	125.6	66.2	132	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
2	VSTFR	PL	170* 16	2679	125.6	57.2	114	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C27
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C27
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C27
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C27
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C27
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C27
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C27
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C27
2		PL	100* 9	171	70.65	1.21	2	SM400A		C27
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C27
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R87,R88
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R87,R88

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R87,R88
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R87,R88
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R87,R88
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R87,R88
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R87,R88
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R87,R88
BLOCK- 30								9838 kg	
2@ BLOCK- 30								19676 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 31

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 20	9995	157.0	2903	2903	SM570		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM570		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM570		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C28
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C28
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C28
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C28
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C28
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C28
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C28
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C28
2		PL	100* 9	171	70.65	1.21	2	SM400A		C28
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C28

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R89
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R89
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R89
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R89
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R89
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R89
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R89
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R89
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R89
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R90,R91
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R90,R91
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R90,R91
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R90,R91
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R90,R91
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R90,R91
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R90,R91
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R90,R91
BLOCK- 31								13404 kg	
2@ BLOCK- 31								26808 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 32

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 20	9995	157.0	2903	2903	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A			
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C29	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C29	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C29	
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C29	
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C29	
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C29	
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C29	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C29	
2		PL	100* 9	171	70.65	1.21	2	SM400A		C29	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C29	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R92	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R92	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R92	
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R92	
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R92	
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R92	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R92	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R92	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R92	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R93,R94	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R93,R94	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R93,R94	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R93,R94	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R93,R94	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R93,R94	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R93,R94	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R93,R94	
BLOCK- 32								13406 kg			
2@ BLOCK- 32								26812 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 33

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 14	9995	109.9	2032	2032	SM490YA		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	2430	125.6	48.8	49	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C30
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C30
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C30
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C30
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C30
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C30
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C30
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C30
2		PL	100* 9	171	70.65	1.21	2	SM400A		C30
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C30
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R95
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R95
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R95
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R95
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R95
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R95
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R95
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R95
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R95
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R96,R97
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R96,R97
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R96,R97
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R96,R97
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R96,R97
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R96,R97
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R96,R97

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R96,R97	
BLOCK- 33							12821 kg			
2@ BLOCK- 33							25642 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 34

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 18	9245	141.3	2416	2416	SM490YB		
5	RIB	PL	220* 19	9246	149.2	303	1515	SM490YB		
1	LWEB	PL	3044* 12	9253	94.20	2654	2654	SM490YA		
1	RWEB	PL	2714* 12	9253	94.20	2365	2365	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C31
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C31
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C31
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C31
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C31
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C31
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C31
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C31
2		PL	100* 9	171	70.65	1.21	2	SM400A		C31
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C31
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R98



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R98
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R98
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R98
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R98
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R98
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R98
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R98
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R98
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R99,R100
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R99,R100
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R99,R100
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R99,R100
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R99,R100
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R99,R100
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R99,R100
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R99,R100
BLOCK- 34								12327 kg	
2@ BLOCK- 34								24654 kg	

Calculation Weight Main Girder G-1,4 BLOCK- 35										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 36	9995	282.6	5225	5225	SM570		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM570		
1	LWEB	PL	3038* 12	10003	94.20	2863	2863	SM570		
1	RWEB	PL	2709* 12	10003	94.20	2553	2553	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	3133	125.6	66.9	268	SM400A		
2	VSTFL	PL	170* 16	1686	125.6	36.0	72	SM400A		
4	VSTFR	PL	170* 16	2708	125.6	57.8	231	SM400A		
2	VSTFR	PL	170* 16	1438	125.6	30.7	61	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	C32
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	C32
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	C32
2		PL	200* 9	1425	70.65	20.1	40	SM400A	C32
2		PL	200* 9	1446	70.65	20.4	41	SM400A	C32
2		PL	100* 9	2564	70.65	18.1	36	SM400A	C32
2		PL	130* 9	1770	70.65	16.3	33	SM400A	C32
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	C32
2		PL	100* 9	171	70.65	1.21	2	SM400A	C32
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C32
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R101,R104
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R101,R104
2	DIA	PL	2714* 9	2980	70.65	571	1142	SM400A	R101,R104
4		PL	200* 9	1414	70.65	20.0	80	SM400A	R101,R104
4		PL	200* 9	1435	70.65	20.3	81	SM400A	R101,R104
4		PL	100* 10	2564	78.50	20.1	80	SM400A	R101,R104
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R101,R104
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R101,R104
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R101,R104
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R102,R103
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R102,R103
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R102,R103
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R102,R103
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R102,R103
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R102,R103
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R102,R103
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R102,R103
BLOCK- 35								16585 kg	
2@ BLOCK- 35								33170 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 36

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 46	5995	361.1	4005	4005	SM570-H		
2	RIB	PL	220* 19	5996	149.2	197	394	SM570		
4	RIB	PL	220* 19	2718	149.2	89.2	357	SM570		
2	RIB	PL	220* 19	2498	149.2	82.0	164	SM570		
1	LWEB	PL	3038* 12	6003	94.20	1718	1718	SM570		
1	RWEB	PL	2709* 12	6003	94.20	1532	1532	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	VSTFL	PL	170* 16	3133	125.6	66.9	134	SM400A		
2	VSTFL	PL	170* 16	1686	125.6	36.0	72	SM400A		
2	VSTFR	PL	170* 16	2708	125.6	57.8	116	SM400A		
2	VSTFR	PL	170* 16	1438	125.6	30.7	61	SM400A		
1	SOLE	PL	1340* 40	970	314.0	408	408	SM490B		
1	WEB	PL	739* 9	597	70.65	31.2	31	SM400A		P16
1	FLG	PL	200* 10	617	78.50	9.69	10	SM400A		P16
1	DIA	PL	2708* 19	2977	149.2	1203	1203	SM400A		P16
2	VSTFF	PL	240* 27	2300	212.0	117	234	SM400A		P16
2		PL	100* 9	1175	70.65	8.30	17	SM400A		P16
2		PL	100* 9	373	70.65	2.64	5	SM400A		P16
2		PL	100* 9	959	70.65	6.78	14	SM400A		P16
2		PL	130* 12	385	94.20	4.71	9	SM400A		P16
2		PL	130* 12	373	94.20	4.57	9	SM400A		P16
2		PL	130* 12	959	94.20	11.7	23	SM400A		P16
1	WEB	PL	2212* 9	171	70.65	26.7	27	SM400A		P16
2		PL	100* 9	169	70.65	1.19	2	SM400A		P16
1	FLG	PL	250* 12	169	94.20	3.98	4	SM400A		P16
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R105,R106
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R105,R106
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R105,R106
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R105,R106
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R105,R106
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R105,R106
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R105,R106
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R105,R106
BLOCK- 36								11607 kg		
2@ BLOCK- 36								23214 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 37

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 40	9995	314.0	5806	5806	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	RIB	PL	220* 19	994	149.2	32.6	98	SM570		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
1	LWEB	PL	3038* 12	10003	94.20	2863	2863	SM570		
1	RWEB	PL	2709* 12	10003	94.20	2553	2553	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	3133	125.6	66.9	268	SM400A		
2	VSTFL	PL	170* 16	1686	125.6	36.0	72	SM400A		
4	VSTFR	PL	170* 16	2708	125.6	57.8	231	SM400A		
2	VSTFR	PL	170* 16	1438	125.6	30.7	61	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C33
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C33
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C33
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C33
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C33
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C33
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C33
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C33
2		PL	100* 9	171	70.65	1.21	2	SM400A		C33
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C33
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R107,R110
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R107,R110
2	DIA	PL	2714* 9	2980	70.65	571	1142	SM400A		R107,R110
4		PL	200* 9	1414	70.65	20.0	80	SM400A		R107,R110
4		PL	200* 9	1435	70.65	20.3	81	SM400A		R107,R110
4		PL	100* 10	2564	78.50	20.1	80	SM400A		R107,R110
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R107,R110
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R107,R110
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R107,R110
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R108,R109
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R108,R109
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R108,R109
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R108,R109

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R108,R109
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R108,R109
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R108,R109
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R108,R109
BLOCK- 37								16278 kg		
2@ BLOCK- 37								32556 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 38

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 21	9245	164.8	2818	2818	SM490YB		
2	RIB	PL	220* 19	9246	149.2	303	606	SM490YB		
1	LWEB	PL	3044* 12	9253	94.20	2654	2654	SM490YA		
1	RWEB	PL	2714* 12	9253	94.20	2365	2365	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C34
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C34
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C34
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C34
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C34
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C34
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C34
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C34

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	100* 9	171	70.65	1.21	2	SM400A	C34	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C34	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R111,R112	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R111,R112	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R111,R112	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R111,R112	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R111,R112	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R111,R112	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R111,R112	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R111,R112	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R113	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R113	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R113	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R113	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R113	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R113	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R113	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R113	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R113	
BLOCK- 38							11818 kg			
2@ BLOCK- 38							23636 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 39

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 13	9995	102.0	1886	1886	SM490YA		
2	RIB	PL	220* 19	9996	149.2	328	656	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	2430	125.6	48.8	49	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
2	HSTFL	PL	160* 16	1180	125.6	23.7	47	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
2	HSTFR	PL	160* 16	1180	125.6	23.7	47	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
2	HSTFR	PL	160* 16	1180	125.6	23.7	47	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C35
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C35
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C35
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C35
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C35
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C35
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C35
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C35
2		PL	100* 9	171	70.65	1.21	2	SM400A		C35
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C35
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R114,R115
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R114,R115
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R114,R115
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R114,R115
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R114,R115
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R114,R115
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R114,R115
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R114,R115
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R116
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R116
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R116
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R116
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R116
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R116
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R116
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R116
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R116
								BLOCK- 39		11671 kg
								2@ BLOCK- 39		23342 kg

Calculation Weight Main Girder G-1,4 BLOCK- 40

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 22	9995	172.7	3193	3193	SM490YB		
2	RIB	PL	220* 19	9996	149.2	328	656	SM490YB		
3	RIB	PL	220* 19	1244	149.2	40.8	122	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C36
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C36
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C36
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C36
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C36
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C36
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C36
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C36
2		PL	100* 9	171	70.65	1.21	2	SM400A		C36
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C36
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R117,R118
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R117,R118
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R117,R118
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R117,R118
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R117,R118
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R117,R118
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R117,R118
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R117,R118
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R119
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R119



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R119	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R119	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R119	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R119	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R119	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R119	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R119	
BLOCK- 40							12834 kg			
2@ BLOCK- 40							25668 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 41

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 26	9995	204.1	3774	3774	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C37
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C37
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C37
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C37
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C37
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C37
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C37
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C37
2		PL	100* 9	171	70.65	1.21	2	SM400A		C37

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C37	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R120,R121	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R120,R121	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R120,R121	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R120,R121	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R120,R121	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R120,R121	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R120,R121	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R120,R121	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R122	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R122	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R122	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R122	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R122	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R122	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R122	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R122	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R122	
BLOCK- 41							14277 kg			
2@ BLOCK- 41							28554 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 42

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 26	7495	204.1	2831	2831	SM490YB		
5	RIB	PL	220* 19	7496	149.2	246	1230	SM490YB		
1	LWEB	PL	3044* 12	7503	94.20	2152	2152	SM490YA		
1	RWEB	PL	2714* 12	7503	94.20	1918	1918	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
2	VSTFL	PL	170* 16	3100	125.6	66.2	132	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFR	PL	170* 16	2679	125.6	57.2	114	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C38
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C38
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C38
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C38
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C38
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C38
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C38
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C38
2		PL	100* 9	171	70.65	1.21	2	SM400A		C38
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C38
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R123,R124
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R123,R124
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R123,R124
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R123,R124
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R123,R124
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R123,R124
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R123,R124
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R123,R124
BLOCK- 42								10495 kg		
2@ BLOCK- 42								20990 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 43

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 26	9995	204.1	3774	3774	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C39
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C39
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C39
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C39
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C39
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C39
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C39
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C39
2		PL	100* 9	171	70.65	1.21	2	SM400A		C39
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C39
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R125
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R125
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R125
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R125
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R125
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R125
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R125
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R125
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R125
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R126,R127
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R126,R127
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R126,R127
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R126,R127
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R126,R127
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R126,R127
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R126,R127
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R126,R127
BLOCK- 43								14277 kg		
2@ BLOCK- 43								28554 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 44

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 20	9995	157.0	2903	2903	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C40
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C40
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C40
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C40
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C40
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C40
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C40
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C40
2		PL	100* 9	171	70.65	1.21	2	SM400A		C40
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C40
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R128
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R128
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R128
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R128
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R128
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R128
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R128
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R128
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R128
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R129,R130
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R129,R130
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R129,R130
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R129,R130
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R129,R130
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R129,R130
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R129,R130
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R129,R130

## Calculation of Steel Weight

(Unit ; mm,kg)

BLOCK- 44	13406 kg
2@ BLOCK- 44	26812 kg

Calculation Weight Main Girder G-1,4 BLOCK- 45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 14	9995	109.9	2032	2032	SM490YA		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	2430	125.6	48.8	49	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C41
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C41
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C41
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C41
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C41
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C41
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C41
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C41
2		PL	100* 9	171	70.65	1.21	2	SM400A		C41
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C41
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R131
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R131

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R131
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R131
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R131
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R131
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R131
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R131
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R131
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R132,R133
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R132,R133
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R132,R133
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R132,R133
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R132,R133
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R132,R133
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R132,R133
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R132,R133
BLOCK- 45								12821 kg	
2@ BLOCK- 45								25642 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 46

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 18	9245	141.3	2416	2416	SM570		
5	RIB	PL	220* 19	9246	149.2	303	1515	SM570		
1	LWEB	PL	3044* 12	9253	94.20	2654	2654	SM570		
1	RWEB	PL	2714* 12	9253	94.20	2365	2365	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A			
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A			
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A			
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C42	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C42	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C42	
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C42	
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C42	
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C42	
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C42	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C42	
2		PL	100* 9	171	70.65	1.21	2	SM400A		C42	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C42	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R134	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R134	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R134	
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R134	
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R134	
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R134	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R134	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R134	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R134	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R135,R136	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R135,R136	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R135,R136	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R135,R136	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R135,R136	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R135,R136	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R135,R136	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R135,R136	
								BLOCK- 46			12323 kg
								2@ BLOCK- 46			24646 kg

## Calculation Weight Main Girder G-1,4 BLOCK- 47

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 32	9995	251.2	4645	4645	SM570		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM570		
1	LWEB	PL	3038* 12	10003	94.20	2863	2863	SM570		
1	RWEB	PL	2709* 12	10003	94.20	2553	2553	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
3	VSTFL	PL	170* 16	3134	125.6	66.9	201	SM400A		
2	VSTFL	PL	170* 16	1687	125.6	36.0	72	SM400A		
3	VSTFR	PL	170* 16	2709	125.6	57.8	173	SM400A		
2	VSTFR	PL	170* 16	1439	125.6	30.7	61	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C43
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C43
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C43
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C43
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C43
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C43
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C43
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C43
2		PL	100* 9	171	70.65	1.21	2	SM400A		C43
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C43
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R137,R140
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R137,R140
2	DIA	PL	2714* 9	2980	70.65	571	1142	SM400A		R137,R140
4		PL	200* 9	1414	70.65	20.0	80	SM400A		R137,R140
4		PL	200* 9	1435	70.65	20.3	81	SM400A		R137,R140
4		PL	100* 10	2564	78.50	20.1	80	SM400A		R137,R140
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R137,R140
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R137,R140
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R137,R140
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R137,R139
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R137,R139
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R137,R139
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R137,R139
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R137,R139
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R137,R139
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R137,R139
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R137,R139
BLOCK- 47										
								15876 kg		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2@ BLOCK- 47

31752 kg

Calculation Weight Main Girder G-1,4 BLOCK- 48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 46	5995	361.1	4005	4005	SM570-H		
2	RIB	PL	220* 19	5996	149.2	197	394	SM570		
4	RIB	PL	220* 19	2718	149.2	89.2	357	SM570		
2	RIB	PL	220* 19	2498	149.2	82.0	164	SM570		
1	LWEB	PL	3038* 12	6003	94.20	1718	1718	SM570		
1	RWEB	PL	2709* 12	6003	94.20	1532	1532	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	550	125.6	11.1	11	SM400A		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	550	125.6	11.1	11	SM490YA		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	VSTFL	PL	170* 16	3134	125.6	66.9	134	SM400A		
2	VSTFL	PL	170* 16	1687	125.6	36.0	72	SM400A		
2	VSTFR	PL	170* 16	2709	125.6	57.8	116	SM400A		
2	VSTFR	PL	170* 16	1439	125.6	30.7	61	SM400A		
1	SOLE	PL	1340* 40	970	314.0	408	408	SM490B		
1	WEB	PL	739* 9	597	70.65	31.2	31	SM400A		P17
1	FLG	PL	200* 10	618	78.50	9.70	10	SM400A		P17
1	DIA	PL	2709* 19	2978	149.2	1204	1204	SM400A		P17
2	VSTFF	PL	240* 27	2300	212.0	117	234	SM400A		P17
2		PL	100* 9	1176	70.65	8.31	17	SM400A		P17
2		PL	100* 9	373	70.65	2.64	5	SM400A		P17
2		PL	100* 9	959	70.65	6.78	14	SM400A		P17
2		PL	130* 12	385	94.20	4.71	9	SM400A		P17
2		PL	130* 12	373	94.20	4.57	9	SM400A		P17
2		PL	130* 12	959	94.20	11.7	23	SM400A		P17
1	WEB	PL	2213* 9	171	70.65	26.7	27	SM400A		P17
2		PL	100* 9	169	70.65	1.19	2	SM400A		P17
1	FLG	PL	250* 12	169	94.20	3.98	4	SM400A		P17
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R141,R142
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R141,R142

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R141,R142	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R141,R142	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R141,R142	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R141,R142	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R141,R142	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R141,R142	
							BLOCK- 48				11604 kg
							2@ BLOCK- 48				23208 kg

## Calculation Weight Main Girder G-1,4 BLOCK- 49

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 40	9995	314.0	5806	5806	SM570		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
3	RIB	PL	220* 19	9000	149.2	295	885	SM570		
1	LWEB	PL	3038* 12	10003	94.20	2863	2863	SM570		
1	RWEB	PL	2709* 12	10003	94.20	2553	2553	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
4	VSTFL	PL	170* 16	3134	125.6	66.9	268	SM400A		
2	VSTFL	PL	170* 16	1687	125.6	36.0	72	SM400A		
4	VSTFR	PL	170* 16	2709	125.6	57.8	231	SM400A		
2	VSTFR	PL	170* 16	1439	125.6	30.7	61	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C44
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C44
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C44
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C44
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C44
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C44
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C44
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C44
2		PL	100* 9	171	70.65	1.21	2	SM400A		C44

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C44	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R143,R146	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R143,R146	
2	DIA	PL	2714* 9	2980	70.65	571	1142	SM400A	R143,R146	
4		PL	200* 9	1414	70.65	20.0	80	SM400A	R143,R146	
4		PL	200* 9	1435	70.65	20.3	81	SM400A	R143,R146	
4		PL	100* 10	2564	78.50	20.1	80	SM400A	R143,R146	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R143,R146	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R143,R146	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R143,R146	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R144,R145	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R144,R145	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R144,R145	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R144,R145	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R144,R145	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R144,R145	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R144,R145	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R144,R145	
BLOCK- 49							17067 kg			
2@ BLOCK- 49							34134 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 50

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 21	9245	164.8	2818	2818	SM490YB		
2	RIB	PL	220* 19	9246	149.2	303	606	SM490YB		
1	LWEB	PL	3044* 12	9253	94.20	2654	2654	SM490YA		
1	RWEB	PL	2714* 12	9253	94.20	2365	2365	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C45
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C45
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C45
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C45
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C45
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C45
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C45
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C45
2		PL	100* 9	171	70.65	1.21	2	SM400A		C45
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C45
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R147,R148
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R147,R148
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R147,R148
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R147,R148
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R147,R148
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R147,R148
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R147,R148
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R147,R148
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R149
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R149
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R149
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R149
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R149
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R149
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R149
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R149
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R149
							BLOCK- 50		11820 kg	
							2@ BLOCK- 50		23640 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 51

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 14	9995	109.9	2032	2032	SM490YA		LFLG
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		RIB
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		LWEB

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA	RWEB
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA	HSTFL
1	HSTFL	PL	160* 16	2430	125.6	48.8	49	SM490YA	HSTFL
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA	HSTFL
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A	HSTFL
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A	HSTFL
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A	HSTFL
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A	HSTFL
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA	HSTFL
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA	HSTFL
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA	HSTFR
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA	HSTFR
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A	HSTFR
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A	HSTFR
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A	HSTFR
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM400A	HSTFR
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA	HSTFR
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM490YA	HSTFR
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A	VSTFL
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A	VSTFL
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A	VSTFR
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A	VSTFR
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	C46
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	C46
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	C46
2		PL	200* 9	1425	70.65	20.1	40	SM400A	C46
2		PL	200* 9	1446	70.65	20.4	41	SM400A	C46
2		PL	100* 9	2564	70.65	18.1	36	SM400A	C46
2		PL	130* 9	1770	70.65	16.3	33	SM400A	C46
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	C46
2		PL	100* 9	171	70.65	1.21	2	SM400A	C46
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C46
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R150,R151
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R150,R151
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R150,R151
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R150,R151
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R150,R151
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R150,R151
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R150,R151
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R150,R151
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R152
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R152
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R152

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	200* 9	1414	70.65	20.0	40	SM400A	R152
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R152
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R152
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R152
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R152
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R152
BLOCK- 51								12821 kg	
2@ BLOCK- 51								25642 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 52

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 20	9995	157.0	2903	2903	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C47
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C47
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C47
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C47
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C47
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C47
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C47
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C47
2		PL	100* 9	171	70.65	1.21	2	SM400A		C47
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C47

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R153,R154
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R153,R154
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R153,R154
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R153,R154
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R153,R154
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R153,R154
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R153,R154
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R153,R154
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R155
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R155
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R155
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R155
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R155
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R155
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R155
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R155
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R155
BLOCK- 52								13406 kg	
2@ BLOCK- 52								26812 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 53

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 28	9995	219.8	4064	4064	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		



## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C48
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C48
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C48
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C48
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C48
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C48
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C48
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C48
2		PL	100* 9	171	70.65	1.21	2	SM400A		C48
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C48
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R156,R157
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R156,R157
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R156,R157
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R156,R157
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R156,R157
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R156,R157
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R156,R157
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R156,R157
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R158
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R158
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R158
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R158
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R158
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R158
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R158
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R158
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R158
BLOCK- 53								14567 kg		
2@ BLOCK- 53								29134 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 54

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 28	7495	219.8	3049	3049	SM490YB		
5	RIB	PL	220* 19	7496	149.2	246	1230	SM490YB		
1	LWEB	PL	3044* 12	7503	94.20	2152	2152	SM490YA		
1	RWEB	PL	2714* 12	7503	94.20	1918	1918	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A				
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A				
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA				
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA				
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA				
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A				
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A				
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A				
2	VSTFL	PL	170* 16	3100	125.6	66.2	132	SM400A				
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A				
2	VSTFR	PL	170* 16	2679	125.6	57.2	114	SM400A				
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A				
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C49		
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C49		
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C49		
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C49		
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C49		
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C49		
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C49		
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C49		
2		PL	100* 9	171	70.65	1.21	2	SM400A		C49		
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C49		
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R159,R160		
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R159,R160		
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R159,R160		
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R159,R160		
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R159,R160		
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R159,R160		
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R159,R160		
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R159,R160		
							BLOCK- 54				10713 kg	
							2@ BLOCK- 54				21426 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 55

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 28	9995	219.8	4064	4064	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C50
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C50
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C50
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C50
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C50
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C50
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C50
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C50
2		PL	100* 9	171	70.65	1.21	2	SM400A		C50
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C50
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R161
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R161
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R161
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R161
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R161
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R161
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R161
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R161
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R161
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R162,R163
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R162,R163
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R162,R163
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R162,R163
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R162,R163
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R162,R163
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R162,R163
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R162,R163
BLOCK- 55										
								14567 kg		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2@ BLOCK- 55

29134 kg

Calculation Weight Main Girder G-1,4 BLOCK- 56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 21	9995	164.8	3047	3047	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C51
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C51
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C51
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C51
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C51
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C51
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C51
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C51
2		PL	100* 9	171	70.65	1.21	2	SM400A		C51
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C51
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R164
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R164
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R164
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R164
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R164
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R164
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R164
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R164

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R164	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R165,R166	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R165,R166	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R165,R166	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R165,R166	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R165,R166	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R165,R166	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R165,R166	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R165,R166	
BLOCK- 56							13550 kg			
2@ BLOCK- 56							27100 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 57

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 14	9995	109.9	2032	2032	SM490YA		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	C52	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	C52	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	C52	

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	200* 9	1425	70.65	20.1	40	SM400A	C52	
2		PL	200* 9	1446	70.65	20.4	41	SM400A	C52	
2		PL	100* 9	2564	70.65	18.1	36	SM400A	C52	
2		PL	130* 9	1770	70.65	16.3	33	SM400A	C52	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	C52	
2		PL	100* 9	171	70.65	1.21	2	SM400A	C52	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C52	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R167	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R167	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R167	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R167	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R167	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R167	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R167	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R167	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R167	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R168,R169	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R168,R169	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R168,R169	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R168,R169	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R168,R169	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R168,R169	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R168,R169	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R168,R169	
							BLOCK- 57		12822 kg	
							2@ BLOCK- 57		25644 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 58

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 21	9245	164.8	2818	2818	SM490YB		
3	RIB	PL	220* 19	1244	149.2	40.8	122	SM490YB		
2	RIB	PL	220* 19	9246	149.2	303	606	SM490YB		
1	LWEB	PL	3044* 12	9253	94.20	2654	2654	SM490YA		
1	RWEB	PL	2714* 12	9253	94.20	2365	2365	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C53
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C53
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C53
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C53
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C53
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C53
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C53
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C53
2		PL	100* 9	171	70.65	1.21	2	SM400A		C53
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C53
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R170
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R170
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R170
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R170
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R170
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R170
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R170
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R170
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R170
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R171,R172
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R171,R172
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R171,R172
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R171,R172
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R171,R172
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R171,R172
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R171,R172
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R171,R172
BLOCK- 58								11942 kg		
2@ BLOCK- 58								23884 kg		

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G-1,4 BLOCK- 59										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 37	9995	290.4	5369	5369	SM570		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
3	RIB	PL	220* 19	8993	149.2	295	885	SM570		
1	LWEB	PL	3040* 12	10003	94.20	2865	2865	SM570		
1	RWEB	PL	2710* 12	10003	94.20	2554	2554	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	3135	125.6	66.9	268	SM400A		
2	VSTFL	PL	170* 16	1688	125.6	36.0	72	SM400A		
4	VSTFR	PL	170* 16	2710	125.6	57.9	232	SM400A		
2	VSTFR	PL	170* 16	1440	125.6	30.7	61	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C54
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C54
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C54
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C54
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C54
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C54
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C54
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C54
2		PL	100* 9	171	70.65	1.21	2	SM400A		C54
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C54
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R173,R176
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R173,R176
2	DIA	PL	2714* 9	2980	70.65	571	1142	SM400A		R173,R176
4		PL	200* 9	1414	70.65	20.0	80	SM400A		R173,R176
4		PL	200* 9	1435	70.65	20.3	81	SM400A		R173,R176
4		PL	100* 10	2564	78.50	20.1	80	SM400A		R173,R176
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R173,R176
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R173,R176



## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R173,R176	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R174,R175	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R174,R175	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R174,R175	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R174,R175	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R174,R175	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R174,R175	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R174,R175	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R174,R175	
BLOCK- 59							16634 kg			
2@ BLOCK- 59							33268 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 60

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 39	5995	306.2	3396	3396	SM570		
2	RIB	PL	220* 19	5996	149.2	197	394	SM570		
4	RIB	PL	220* 19	2718	149.2	89.2	357	SM570		
2	RIB	PL	220* 19	2498	149.2	82.0	164	SM570		
1	LWEB	PL	3040* 12	6003	94.20	1719	1719	SM570		
1	RWEB	PL	2710* 12	6003	94.20	1533	1533	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	VSTFL	PL	170* 16	3135	125.6	66.9	134	SM400A		
2	VSTFL	PL	170* 16	1688	125.6	36.0	72	SM400A		
2	VSTFR	PL	170* 16	2710	125.6	57.9	116	SM400A		
2	VSTFR	PL	170* 16	1440	125.6	30.7	61	SM400A		
1	SOLE	PL	1340* 40	970	314.0	408	408	SM490B		
1	WEB	PL	739* 9	597	70.65	31.2	31	SM400A	P18	
1	FLG	PL	200* 10	618	78.50	9.70	10	SM400A	P18	
1	DIA	PL	2710* 19	2978	149.2	1204	1204	SM400A	P18	
2	VSTFF	PL	240* 27	2300	212.0	117	234	SM400A	P18	

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	100* 9	1176	70.65	8.31	17	SM400A	P18
2		PL	100* 9	373	70.65	2.64	5	SM400A	P18
2		PL	100* 9	959	70.65	6.78	14	SM400A	P18
2		PL	130* 12	385	94.20	4.71	9	SM400A	P18
2		PL	130* 12	373	94.20	4.57	9	SM400A	P18
2		PL	130* 12	959	94.20	11.7	23	SM400A	P18
1	WEB	PL	2214* 9	171	70.65	26.7	27	SM400A	P18
2		PL	100* 9	169	70.65	1.19	2	SM400A	P18
1	FLG	PL	250* 12	169	94.20	3.98	4	SM400A	P18
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R177,R178
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R177,R178
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R177,R178
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R177,R178
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R177,R178
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R177,R178
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R177,R178
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R177,R178
BLOCK- 60								11001 kg	
2@ BLOCK- 60								22002 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 61

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 33	9995	259.0	4789	4789	SM570		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM570		
1	LWEB	PL	3040* 12	10003	94.20	2865	2865	SM570		
1	RWEB	PL	2710* 12	10003	94.20	2554	2554	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	3135	125.6	66.9	268	SM400A		
2	VSTFL	PL	170* 16	1688	125.6	36.0	72	SM400A		
4	VSTFR	PL	170* 16	2710	125.6	57.9	232	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFR	PL	170* 16	1440	125.6	30.7	61	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C55
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C55
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C55
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C55
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C55
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C55
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C55
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C55
2		PL	100* 9	171	70.65	1.21	2	SM400A		C55
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C55
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R179,R182
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R179,R182
2	DIA	PL	2714* 9	2980	70.65	571	1142	SM400A		R179,R182
4		PL	200* 9	1414	70.65	20.0	80	SM400A		R179,R182
4		PL	200* 9	1435	70.65	20.3	81	SM400A		R179,R182
4		PL	100* 10	2564	78.50	20.1	80	SM400A		R179,R182
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R179,R182
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R179,R182
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R179,R182
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R179,R182
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R179,R182
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R179,R182
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R179,R182
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R179,R182
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R179,R182
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R179,R182
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R179,R182
BLOCK- 61								16149 kg		
2@ BLOCK- 61								32298 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 62

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 18	9245	141.3	2416	2416	SM570		
5	RIB	PL	220* 19	9246	149.2	303	1515	SM570		
1	LWEB	PL	3044* 12	9253	94.20	2654	2654	SM570		
1	RWEB	PL	2714* 12	9253	94.20	2365	2365	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C56
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C56
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C56
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C56
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C56
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C56
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C56
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C56
2		PL	100* 9	171	70.65	1.21	2	SM400A		C56
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C56
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R183,R184
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R183,R184
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R183,R184
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R183,R184
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R183,R184
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R183,R184
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R183,R184
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R183,R184
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R185
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R185
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R185
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R185
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R185
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R185
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R185
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R185
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R185

## Caluculation of Steel Weight

(Unit ; mm,kg)

BLOCK- 62	12323 kg
2@ BLOCK- 62	24646 kg

Calculation Weight Main Girder G-1,4 BLOCK- 63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 14	9995	109.9	2032	2032	SM490YA		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFL	PL	160* 16	2430	125.6	48.8	49	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C57
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C57
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C57
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C57
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C57
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C57
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C57
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C57
2		PL	100* 9	171	70.65	1.21	2	SM400A		C57
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C57
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R186,R187

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R186,R187	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R186,R187	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R186,R187	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R186,R187	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R186,R187	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R186,R187	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R186,R187	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R188	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R188	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R188	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R188	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R188	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R188	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R188	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R188	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R188	
BLOCK- 63							12821 kg			
2@ BLOCK- 63							25642 kg			

Calculation Weight Main Girder G-1,4 BLOCK- 64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 14	9995	109.9	2032	2032	SM490YA		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	C58
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	C58
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	C58
2		PL	200* 9	1425	70.65	20.1	40	SM400A	C58
2		PL	200* 9	1446	70.65	20.4	41	SM400A	C58
2		PL	100* 9	2564	70.65	18.1	36	SM400A	C58
2		PL	130* 9	1770	70.65	16.3	33	SM400A	C58
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	C58
2		PL	100* 9	171	70.65	1.21	2	SM400A	C58
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C58
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R189,R190
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R189,R190
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R189,R190
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R189,R190
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R189,R190
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R189,R190
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R189,R190
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R189,R190
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R191
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R191
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R191
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R191
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R191
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R191
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R191
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R191
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R191
BLOCK- 64								12535 kg	
2@ BLOCK- 64								25070 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 65

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 20	9995	157.0	2903	2903	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C59
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C59
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C59
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C59
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C59
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C59
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C59
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C59
2		PL	100* 9	171	70.65	1.21	2	SM400A		C59
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C59
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R192,R193
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R192,R193
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R192,R193
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R192,R193
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R192,R193
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R192,R193
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R192,R193
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R192,R193
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R194
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R194
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R194
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R194
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R194
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R194
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R194
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R194
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R194
								BLOCK- 65		13406 kg
								2@ BLOCK- 65		26812 kg

Calculation Weight Main Girder G-1,4 BLOCK- 66



## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 20	7495	157.0	2178	2178	SM490YB		
5	RIB	PL	220* 19	7496	149.2	246	1230	SM490YB		
1	LWEB	PL	3044* 12	7503	94.20	2152	2152	SM490YA		
1	RWEB	PL	2714* 12	7503	94.20	1918	1918	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
2	VSTFL	PL	170* 16	3100	125.6	66.2	132	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
2	VSTFR	PL	170* 16	2679	125.6	57.2	114	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C60
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C60
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C60
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C60
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C60
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C60
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C60
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C60
2		PL	100* 9	171	70.65	1.21	2	SM400A		C60
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C60
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R195,R196
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R195,R196
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R195,R196
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R195,R196
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R195,R196
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R195,R196
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R195,R196
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R195,R196
BLOCK- 66							9842 kg			
2@ BLOCK- 66							19684 kg			

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G-1,4 BLOCK- 67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 20	9995	157.0	2903	2903	SM490YB		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C61
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C61
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C61
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C61
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C61
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C61
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C61
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C61
2		PL	100* 9	171	70.65	1.21	2	SM400A		C61
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C61
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R197
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R197
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R197
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R197
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R197
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R197
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R197
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R197
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R197

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R198,R199
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R198,R199
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R198,R199
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R198,R199
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R198,R199
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R198,R199
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R198,R199
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R198,R199
BLOCK- 67								13406 kg	
2@ BLOCK- 67								26812 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 68

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 15	9995	117.8	2178	2178	SM490YA		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	C62
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	C62
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	C62
2		PL	200* 9	1425	70.65	20.1	40	SM400A	C62
2		PL	200* 9	1446	70.65	20.4	41	SM400A	C62
2		PL	100* 9	2564	70.65	18.1	36	SM400A	C62
2		PL	130* 9	1770	70.65	16.3	33	SM400A	C62
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	C62
2		PL	100* 9	171	70.65	1.21	2	SM400A	C62
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C62
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R200
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R200
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R200
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R200
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R200
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R200
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R200
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R200
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R200
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R201,R202
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R201,R202
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R201,R202
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R201,R202
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R201,R202
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R201,R202
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R201,R202
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R201,R202
BLOCK- 68								12853 kg	
2@ BLOCK- 68								25706 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 69

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 15	9995	117.8	2178	2178	SM490YA		
3	RIB	PL	220* 19	1244	149.2	40.8	122	SM490YB		
2	RIB	PL	220* 19	9996	149.2	328	656	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C63
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C63
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C63
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C63
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C63
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C63
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C63
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C63
2		PL	100* 9	171	70.65	1.21	2	SM400A		C63
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C63
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R203
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R203
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R203
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R203
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R203
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R203
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R203
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R203
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R203
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R204,R205
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R204,R205
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R204,R205
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R204,R205
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R204,R205
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R204,R205
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R204,R205
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R204,R205

## Caluculation of Steel Weight

(Unit ; mm,kg)

BLOCK- 69	11895 kg
2@ BLOCK- 69	23790 kg

Calculation Weight Main Girder G-1,4 BLOCK- 70										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 22	9245	172.7	2953	2953	SM570		
2	RIB	PL	220* 19	9246	149.2	303	606	SM570		
1	LWEB	PL	3044* 12	9253	94.20	2654	2654	SM570		
1	RWEB	PL	2714* 12	9253	94.20	2365	2365	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C64
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C64
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C64
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C64
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C64
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C64
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C64
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C64
2		PL	100* 9	171	70.65	1.21	2	SM400A		C64
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C64
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R206

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R206	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R206	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R206	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R206	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R206	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R206	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R206	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R206	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R207,R208	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R207,R208	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R207,R208	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R207,R208	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R207,R208	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R207,R208	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R207,R208	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R207,R208	
BLOCK- 70							11970 kg			
2@ BLOCK- 70							23940 kg			

Calculation Weight Main Girder G-1,4 BLOCK- 71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 44	9995	345.4	6386	6386	SM570-H		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
3	RIB	PL	220* 19	8993	149.2	295	885	SM570		
1	LWEB	PL	3034* 12	10003	94.20	2859	2859	SM570		
1	RWEB	PL	2705* 12	10003	94.20	2549	2549	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
3	VSTFL	PL	170* 16	3130	125.6	66.8	200	SM400A		
2	VSTFL	PL	170* 16	1683	125.6	35.9	72	SM400A		
3	VSTFR	PL	170* 16	2705	125.6	57.8	173	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFR	PL	170* 16	1435	125.6	30.6	61	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C65
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C65
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C65
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C65
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C65
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C65
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C65
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C65
2		PL	100* 9	171	70.65	1.21	2	SM400A		C65
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C65
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R209,R212
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R209,R212
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R209,R212
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R209,R212
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R209,R212
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R209,R212
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R209,R212
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R209,R212
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R209,R212
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R210,R211
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R210,R211
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R210,R211
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R210,R211
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R210,R211
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R210,R211
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R210,R211
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R210,R211
BLOCK- 71								16753 kg		
2@ BLOCK- 71								33506 kg		

## Calculation Weight Main Girder G-1,4 BLOCK- 72

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 54	6745	423.9	5290	5290	SM570-H		
2	RIB	PL	220* 19	6746	149.2	221	442	SM570		
2	RIB	PL	220* 19	2688	149.2	88.2	176	SM570		
1	RIB	PL	220* 19	2498	149.2	82.0	82	SM570		
2	RIB	PL	220* 19	3438	149.2	113	226	SM570		
1	RIB	PL	220* 19	3248	149.2	107	107	SM570		
1	LWEB	PL	3034* 12	6753	94.20	1930	1930	SM570		
1	RWEB	PL	2705* 12	6753	94.20	1721	1721	SM570		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A			
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A			
2	HSTFL	PL	160* 16	1180	125.6	23.7	47	SM400A			
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A			
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA			
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA			
2	HSTFL	PL	160* 16	1180	125.6	23.7	47	SM490YA			
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA			
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A			
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A			
2	HSTFR	PL	160* 16	1180	125.6	23.7	47	SM400A			
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A			
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA			
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA			
2	HSTFR	PL	160* 16	1180	125.6	23.7	47	SM490YA			
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA			
2	VSTFL	PL	170* 16	3130	125.6	66.8	134	SM400A			
2	VSTFL	PL	170* 16	1683	125.6	35.9	72	SM400A			
2	VSTFR	PL	170* 16	2705	125.6	57.8	116	SM400A			
2	VSTFR	PL	170* 16	1435	125.6	30.6	61	SM400A			
1	WEB	PL	739* 9	599	70.65	31.3	31	SM400A		P19	
1	FLG	PL	200* 10	620	78.50	9.73	10	SM400A		P19	
1	DIA	PL	2703* 19	2974	149.2	1199	1199	SM400A		P19	
2	VSTFF	PL	270* 30	2300	235.5	146	292	SM400A		P19	
2		PL	100* 9	1172	70.65	8.28	17	SM400A		P19	
2		PL	100* 9	370	70.65	2.61	5	SM400A		P19	
2		PL	100* 9	957	70.65	6.76	14	SM400A		P19	
2		PL	130* 12	383	94.20	4.69	9	SM400A		P19	
2		PL	130* 12	370	94.20	4.53	9	SM400A		P19	
2		PL	130* 12	957	94.20	11.7	23	SM400A		P19	
1	WEB	PL	2209* 9	171	70.65	26.7	27	SM400A		P19	
2		PL	100* 9	171	70.65	1.21	2	SM400A		P19	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		P19	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R213,R214	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R213,R214	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R213,R214	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R213,R214	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R213,R214	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R213,R214	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R213,R214	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R213,R214	
								BLOCK- 72			13113 kg

## Caluculation of Steel Weight

(Unit ; mm,kg)

2@ BLOCK- 72

26226 kg

Calculation Weight Main Girder G-1,4 BLOCK- 73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 42	9995	329.7	6096	6096	SM570-H		
5	RIB	PL	220* 19	9996	149.2	328	1640	SM570		
1	LWEB	PL	3034* 12	10003	94.20	2859	2859	SM570		
1	RWEB	PL	2705* 12	10003	94.20	2549	2549	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	VSTFL	PL	170* 16	3130	125.6	66.8	200	SM400A		
2	VSTFL	PL	170* 16	1683	125.6	35.9	72	SM400A		
3	VSTFR	PL	170* 16	2705	125.6	57.8	173	SM400A		
2	VSTFR	PL	170* 16	1435	125.6	30.6	61	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C66
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C66
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C66
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C66
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C66
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C66
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C66
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C66
2		PL	100* 9	171	70.65	1.21	2	SM400A		C66
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C66
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R215
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R215
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R215
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R215
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R215
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R215
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R215
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R215

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R215	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R216,R217	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R216,R217	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R216,R217	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R216,R217	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R216,R217	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R216,R217	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R216,R217	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R216,R217	
BLOCK- 73							16570 kg			
2@ BLOCK- 73							33140 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 74

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 21	9995	164.8	3047	3047	SM570		
3	RIB	PL	220* 19	1244	149.2	40.8	122	SM570		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM570		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	C67	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	C67	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	C67	
2		PL	200* 9	1425	70.65	20.1	40	SM400A	C67	
2		PL	200* 9	1446	70.65	20.4	41	SM400A	C67	
2		PL	100* 9	2564	70.65	18.1	36	SM400A	C67	

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	130* 9	1770	70.65	16.3	33	SM400A	C67	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	C67	
2		PL	100* 9	171	70.65	1.21	2	SM400A	C67	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C67	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R218	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R218	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R218	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R218	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R218	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R218	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R218	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R218	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R218	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R219,R220	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R219,R220	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R219,R220	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R219,R220	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R219,R220	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R219,R220	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R219,R220	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R219,R220	
BLOCK- 74							12684 kg			
2@ BLOCK- 74							25368 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 75

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 17	9995	133.4	2467	2467	SM490YB		
2	RIB	PL	220* 19	9996	149.2	328	656	SM490YB		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM490YA		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM400A			
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A			
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A			
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A			
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA			
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA			
3	VSTFL	PL	170* 16	3140	125.6	67.0	201	SM400A			
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A			
3	VSTFR	PL	170* 16	2714	125.6	58.0	174	SM400A			
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A			
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C68	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C68	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C68	
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C68	
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C68	
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C68	
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C68	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C68	
2		PL	100* 9	171	70.65	1.21	2	SM400A		C68	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C68	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R221	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R221	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R221	
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R221	
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R221	
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R221	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R221	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R221	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R221	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R222,R223	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R222,R223	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R222,R223	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R222,R223	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R222,R223	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R222,R223	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R222,R223	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R222,R223	
								BLOCK- 75			12274 kg
								2@ BLOCK- 75			24548 kg

Calculation Weight Main Girder G-1,4 BLOCK- 76

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 26	9995	204.1	3774	3774	SM570		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM570		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C69
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C69
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C69
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C69
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C69
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C69
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C69
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C69
2		PL	100* 9	171	70.65	1.21	2	SM400A		C69
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C69
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R224
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R224
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R224
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R224
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R224
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R224
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R224
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R224
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R224
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R225,R226
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R225,R226
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R225,R226

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R225,R226
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R225,R226
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R225,R226
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R225,R226
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R225,R226
BLOCK- 76							13290 kg			
2@ BLOCK- 76							26580 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 77

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 38	9995	298.3	5516	5516	SM570		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
1	LWEB	PL	3044* 12	10003	94.20	2868	2868	SM570		
1	RWEB	PL	2714* 12	10003	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C70
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C70
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C70
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C70
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C70
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C70
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C70
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C70
2		PL	100* 9	171	70.65	1.21	2	SM400A		C70
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C70
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R227

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R227
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R227
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R227
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R227
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R227
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R227
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R227
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R227
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R228,R229
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R228,R229
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R228,R229
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R228,R229
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R228,R229
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R228,R229
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R228,R229
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R228,R229
BLOCK- 77								15027 kg	
2@ BLOCK- 77								30054 kg	

Calculation Weight Main Girder G-1,4 BLOCK- 78										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 42	9995	329.7	6096	6096	SM570-H		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
1	LWEB	PL	3045* 12	10004	94.20	2869	2869	SM570		
1	RWEB	PL	2715* 12	10004	94.20	2558	2558	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	C71
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	C71
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	C71
2		PL	200* 9	1425	70.65	20.1	40	SM400A	C71
2		PL	200* 9	1446	70.65	20.4	41	SM400A	C71
2		PL	100* 9	2564	70.65	18.1	36	SM400A	C71
2		PL	130* 9	1770	70.65	16.3	33	SM400A	C71
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	C71
2		PL	100* 9	171	70.65	1.21	2	SM400A	C71
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C71
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R230
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R230
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R230
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R230
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R230
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R230
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R230
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R230
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R230
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R231,R232
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R231,R232
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R231,R232
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R231,R232
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R231,R232
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R231,R232
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R231,R232
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R231,R232
BLOCK- 78								15608 kg	
2@ BLOCK- 78								31216 kg	

## Calculation Weight Main Girder G-1,4 BLOCK- 79

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 42	9995	329.7	6096	6096	SM570-H		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
1	LWEB	PL	3045* 12	10007	94.20	2870	2870	SM570		
1	RWEB	PL	2715* 12	10007	94.20	2559	2559	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C72
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C72
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C72
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C72
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C72
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C72
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C72
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C72
2		PL	100* 9	171	70.65	1.21	2	SM400A		C72
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C72
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R233
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R233
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R233
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R233
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R233
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R233
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R233
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R233
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R233
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R234,R235
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R234,R235
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R234,R235
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R234,R235
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R234,R235
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R234,R235
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R234,R235
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R234,R235
								BLOCK- 79		15610 kg
								2@ BLOCK- 79		31220 kg

Calculation Weight Main Girder G-1,4 BLOCK- 80

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 38	9995	298.3	5516	5516	SM570		
2	RIB	PL	220* 19	9996	149.2	328	656	SM570		
1	LWEB	PL	3045* 12	10010	94.20	2871	2871	SM570		
1	RWEB	PL	2715* 12	10010	94.20	2560	2560	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	HSTFL	PL	160* 16	2430	125.6	48.8	146	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C73
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C73
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C73
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C73
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C73
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C73
2		PL	130* 9	1770	70.65	16.3	33	SM400A		C73
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		C73
2		PL	100* 9	171	70.65	1.21	2	SM400A		C73
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		C73
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R236
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R236
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R236
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R236
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R236
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R236
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R236
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R236
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R236
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A		R237,R238
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A		R237,R238

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	750* 9	2981	70.65	158	316	SM400A		R237,R238	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A		R237,R238	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A		R237,R238	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A		R237,R238	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A		R237,R238	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A		R237,R238	
							BLOCK- 80				15032 kg
							2@ BLOCK- 80				30064 kg

## Calculation Weight Main Girder G-1,4 BLOCK- 81

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 24	11158	188.4	3889	3889	SM570		
2	RIB	PL	220* 19	11159	149.2	366	732	SM570		
1	LWEB	PL	3046* 12	11176	94.20	3207	3207	SM570		
1	RWEB	PL	2716* 12	11176	94.20	2859	2859	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
2	HSTFL	PL	160* 16	2430	125.6	48.8	98	SM490YA		
1	HSTFL	PL	160* 16	3205	125.6	64.4	64	SM490YA		
1	HSTFL	PL	160* 16	1340	125.6	26.9	27	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFL	PL	160* 16	1570	125.6	31.6	63	SM400A		
1	HSTFL	PL	160* 16	1340	125.6	26.9	27	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFR	PL	160* 16	1570	125.6	31.6	63	SM490YA		
1	HSTFR	PL	160* 16	1340	125.6	26.9	27	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFR	PL	160* 16	1570	125.6	31.6	63	SM400A		
1	HSTFR	PL	160* 16	1340	125.6	26.9	27	SM400A		
3	VSTFL	PL	170* 16	3100	125.6	66.2	199	SM400A		
2	VSTFL	PL	170* 16	1693	125.6	36.1	72	SM400A		
3	VSTFR	PL	170* 16	2679	125.6	57.2	172	SM400A		
2	VSTFR	PL	170* 16	1444	125.6	30.8	62	SM400A		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		C74
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		C74
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		C74
2		PL	200* 9	1425	70.65	20.1	40	SM400A		C74
2		PL	200* 9	1446	70.65	20.4	41	SM400A		C74
2		PL	100* 9	2564	70.65	18.1	36	SM400A		C74

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	130* 9	1770	70.65	16.3	33	SM400A	C74	
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A	C74	
2		PL	100* 9	171	70.65	1.21	2	SM400A	C74	
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A	C74	
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A	R239	
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A	R239	
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A	R239	
2		PL	200* 9	1414	70.65	20.0	40	SM400A	R239	
2		PL	200* 9	1435	70.65	20.3	41	SM400A	R239	
2		PL	100* 10	2564	78.50	20.1	40	SM400A	R239	
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A	R239	
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A	R239	
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A	R239	
2	WEB	PL	739* 9	594	70.65	31.0	62	SM400A	R240,R241	
2	FLG	PL	200* 10	615	78.50	9.66	19	SM400A	R240,R241	
2	WEB	PL	750* 9	2981	70.65	158	316	SM400A	R240,R241	
2	FLG	PL	200* 10	2564	78.50	40.3	81	SM400A	R240,R241	
2	WEB	PL	500* 9	1770	70.65	62.5	125	SM400A	R240,R241	
2	FLG	PL	100* 10	1776	78.50	13.9	28	SM400A	R240,R241	
2	WEB	PL	171* 9	753	70.65	9.10	18	SM400A	R240,R241	
2	FLG	PL	200* 10	171	78.50	2.68	5	SM400A	R240,R241	
BLOCK- 81							14216 kg			
2@ BLOCK- 81							28432 kg			

## Calculation Weight Main Girder G-1,4 BLOCK- 82

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	1850* 14	8885	109.9	1807	1807	SM490YA		
1	RIB	PL	220* 19	7919	149.2	260	260	SM490YB		
1	RIB	PL	220* 19	8179	149.2	268	268	SM490YB		
1	RIB	PL	220* 19	420	149.2	13.8	14	SM490YB		
1	RIB	PL	220* 19	680	149.2	22.3	22	SM490YB		
1	LWEB	PL	3044* 12	8987	94.20	2577	2577	SM490YA		
1	RWEB	PL	2714* 12	8987	94.20	2298	2298	SM490YA		
1	HSTFL	PL	160* 16	1340	125.6	26.9	27	SM490YA		
2	HSTFL	PL	160* 16	3205	125.6	64.4	129	SM490YA		
1	HSTFL	PL	160* 16	1340	125.6	26.9	27	SM400A		
4	HSTFL	PL	160* 16	1570	125.6	31.6	126	SM400A		
1	HSTFR	PL	160* 16	1340	125.6	26.9	27	SM490YA		
4	HSTFR	PL	160* 16	1570	125.6	31.6	126	SM490YA		
1	HSTFR	PL	160* 16	1340	125.6	26.9	27	SM400A		
4	HSTFR	PL	160* 16	1570	125.6	31.6	126	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFL	PL	170* 16	3100	125.6	66.2	132	SM400A		
1	VSTFL	PL	170* 16	1693	125.6	36.1	36	SM400A		
2	VSTFR	PL	170* 16	2679	125.6	57.2	114	SM400A		
1	VSTFR	PL	170* 16	1444	125.6	30.8	31	SM400A		
1	SOLE	PL	970* 32	870	251.2	212	212	SM490B		
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		P20
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		P20
1	DIA	PL	2714* 11	2980	86.35	698	698	SM400A		P20
2	VSTFF	PL	230* 22	2300	172.7	91.4	183	SM400A		P20
2		PL	100* 9	1276	70.65	9.01	18	SM400A		P20
2		PL	100* 9	188	70.65	1.33	3	SM400A		P20
2		PL	100* 9	1056	70.65	7.46	15	SM400A		P20
2		PL	130* 12	482	94.20	5.90	12	SM400A		P20
2		PL	130* 12	188	94.20	2.30	5	SM400A		P20
2		PL	130* 12	1056	94.20	12.9	26	SM400A		P20
1	WEB	PL	2218* 9	171	70.65	26.8	27	SM400A		P20
2		PL	100* 9	171	70.65	1.21	2	SM400A		P20
1	FLG	PL	250* 12	171	94.20	4.03	4	SM400A		P20
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R242
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R242
1	DIA	PL	2714* 9	2980	70.65	571	571	SM400A		R242
2		PL	200* 9	1414	70.65	20.0	40	SM400A		R242
2		PL	200* 9	1435	70.65	20.3	41	SM400A		R242
2		PL	100* 10	2564	78.50	20.1	40	SM400A		R242
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R242
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R242
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R242
1	WEB	PL	739* 9	594	70.65	31.0	31	SM400A		R243
1	FLG	PL	200* 10	615	78.50	9.66	10	SM400A		R243
1	WEB	PL	750* 9	2981	70.65	158	158	SM400A		R243
1	FLG	PL	200* 10	2564	78.50	40.3	40	SM400A		R243
1	WEB	PL	500* 9	1770	70.65	62.5	62	SM400A		R243
1	FLG	PL	100* 10	1776	78.50	13.9	14	SM400A		R243
1	WEB	PL	171* 9	753	70.65	9.10	9	SM400A		R243
1	FLG	PL	200* 10	171	78.50	2.68	3	SM400A		R243
							BLOCK- 82		10506 kg	
							2@ BLOCK- 82		21012 kg	
							G-1,4		2211390 kg	

## Calculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G01J G01-J01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
3	FSPL	PL	440* 11	470	86.35	17.9	54	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
1	FILL	PL	1840* 18	233	141.3	60.6	61	SS400		
102	FSPL	TCB	M 22* 95			0.598	61	S10T		
4	RSPL	PL	160* 12	480	94.20	7.23	29	SM490YA		
24	RSPL	TCB	M 22* 80			0.553	13	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
							G01-J01	820 kg		
							2@ G01-J01	1640 kg		

Calculation Weight Main Girder G01J G01-J02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 19	1070	149.2	294	294	SM490YB		
1	FSPL	PL	80* 25	1070	196.2	16.8	17	SM490YB		
3	FSPL	PL	440* 25	1070	196.2	92.4	277	SM490YB		
1	FSPL	PL	80* 25	1070	196.2	16.8	17	SM490YB		
1	FILL	PL	1840* 8	533	62.80	61.6	62	SS400		
238	FSPL	TCB	M 22* 125			0.688	164	S10T		
4	RSPL	PL	160* 15	630	117.8	11.9	48	SM490YA		
32	RSPL	TCB	M 22* 85			0.568	18	S10T		
2	WSPL	PL	2900* 9	470	70.65	96.3	193	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
							G01-J02	1431 kg		
							2@ G01-J02	2862 kg		

Calculation Weight Main Girder G01J G01-J03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 23	1220	180.6	405	405	SM570		
1	FSPL	PL	165* 31	1220	243.4	49.0	49	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	FSPL	PL	440* 31	1220	243.4	131	393	SM570		
1	FSPL	PL	80* 31	1220	243.4	23.8	24	SM570		
1	FILL	PL	1840* 6	608	47.10	52.7	53	SS400		
336	FSPL	TCB	M 22* 145			0.748	251	S10T		
4	RSPL	PL	160* 14	780	109.9	13.7	55	SM570		
40	RSPL	TCB	M 22* 85			0.568	23	S10T		
2	WSPLI	PL	2880* 9	620	70.65	126	252	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J03							1957 kg			
2@ G01-J03							3914 kg			

Calculation Weight Main Girder G01J G01-J04										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 26	1370	204.1	515	515	SM570		
1	FSPL	PL	165* 35	1370	274.8	62.1	62	SM570		
3	FSPL	PL	440* 35	1370	274.8	166	498	SM570		
1	FSPL	PL	80* 35	1370	274.8	30.1	30	SM570		
378	FSPL	TCB	M 22* 150			0.763	288	S10T		
4	RSPL	PL	160* 14	780	109.9	13.7	55	SM570		
40	RSPL	TCB	M 22* 85			0.568	23	S10T		
2	WSPLI	PL	2880* 9	620	70.65	126	252	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J04							2175 kg			
2@ G01-J04							4350 kg			

Calculation Weight Main Girder G01J G01-J05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 26	1370	204.1	515	515	SM570		
1	FSPL	PL	165* 34	1370	266.9	60.3	60	SM570		
3	FSPL	PL	440* 34	1370	266.9	161	483	SM570		
1	FSPL	PL	80* 34	1370	266.9	29.3	29	SM570		
378	FSPL	TCB	M 22* 150			0.763	288	S10T		
4	RSPL	PL	160* 14	780	109.9	13.7	55	SM570		
40	RSPL	TCB	M 22* 85			0.568	23	S10T		
2	WSPLI	PL	2880* 9	620	70.65	126	252	SM570		



## Caluculation of Steel Weight

(Unit ; mm,kg)

240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
							G01-J05		2157 kg	
							2@ G01-J05		4314 kg	

## Calculation Weight Main Girder G01J G01-J06

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 25	1220	196.2	440	440	SM570		
1	FSPL	PL	165* 29	1220	227.6	45.8	46	SM570		
3	FSPL	PL	440* 29	1220	227.6	122	366	SM570		
1	FSPL	PL	80* 29	1220	227.6	22.2	22	SM570		
1	FILL	PL	1840* 6	608	47.10	52.7	53	SS400		
336	FSPL	TCB	M 22* 145			0.748	251	S10T		
4	RSPL	PL	160* 14	780	109.9	13.7	55	SM570		
40	RSPL	TCB	M 22* 85			0.568	23	S10T		
2	WSPLI	PL	2880* 9	620	70.65	126	252	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
							G01-J06		1960 kg	
							2@ G01-J06		3920 kg	

## Calculation Weight Main Girder G01J G01-J07

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 15	1070	117.8	232	232	SM570		
1	FSPL	PL	80* 19	1070	149.2	12.8	13	SM570		
3	FSPL	PL	440* 19	1070	149.2	70.2	211	SM570		
1	FSPL	PL	80* 19	1070	149.2	12.8	13	SM570		
1	FILL	PL	1840* 6	533	47.10	46.2	46	SS400		
238	FSPL	TCB	M 22* 115			0.658	157	S10T		
4	RSPL	PL	160* 14	630	109.9	11.1	44	SM570		
32	RSPL	TCB	M 22* 85			0.568	18	S10T		
2	WSPLI	PL	2920* 9	620	70.65	128	256	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
							G01-J07		1444 kg	

## Calculation of Steel Weight

(Unit ; mm,kg)

2@ G01-J07	2888 kg
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Calculation Weight Main Girder G01J G01-J08										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
6	FSPL	PL	190* 10	470	78.50	7.01	42	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
1	FILL	PL	1840* 14	233	109.9	47.1	47	SS400		
84	FSPL	TCB	M 22* 85			0.568	48	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
G01-J08							838 kg			
2@ G01-J08							1676 kg			

Calculation Weight Main Girder G01J G01-J09										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 8	233	62.80	26.9	27	SS400		
84	FSPL	TCB	M 22* 80			0.553	46	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
G01-J09							812 kg			
2@ G01-J09							1624 kg			

Calculation Weight Main Girder G01J G01-J10										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	1840* 10	920	78.50	133	133	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
6	FSPL	PL	440* 13	920	102.0	41.3	248	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
1	FILL	PL	1840* 19	458	149.2	126	126	SS400		
168	FSPL	TCB	M 22* 105			0.628	106	S10T		
10	RSPL	PL	160* 11	630	86.35	8.70	87	SM570		
80	RSPL	TCB	M 22* 80			0.553	44	S10T		
2	WSPLI	PL	2920* 9	620	70.65	128	256	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
								G01-J10	1470 kg	
								2@ G01-J10	2940 kg	

## Calculation Weight Main Girder G01J G01-J11

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 21	1370	164.8	415	415	SM570		
1	FSPL	PL	165* 30	1370	235.5	53.2	53	SM570		
6	FSPL	PL	220* 30	1370	235.5	71.0	426	SM570		
1	FSPL	PL	80* 30	1370	235.5	25.8	26	SM570		
1	FILL	PL	1840* 9	683	70.65	88.8	89	SS400		
378	FSPL	TCB	M 22* 140			0.733	277	S10T		
10	RSPL	PL	160* 12	780	94.20	11.8	118	SM570		
100	RSPL	TCB	M 22* 80			0.553	55	S10T		
2	WSPLI	PL	2880* 9	620	70.65	126	252	SM570		
1	FILL	PL	2880* 2.3	308	18.06	16.0	16	SS400		
240	WSPLI	TCB	M 22* 70			0.523	126	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		
1	FILL	PL	2555* 2.3	308	18.06	14.2	14	SS400		
208	WSPLI	TCB	M 22* 70			0.523	109	S10T		
								G01-J11	2200 kg	
								2@ G01-J11	4400 kg	

## Calculation Weight Main Girder G01J G01-J12

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 23	1520	180.6	505	505	SM570		
1	FSPL	PL	165* 32	1520	251.2	63.0	63	SM570		
6	FSPL	PL	220* 32	1520	251.2	84.0	504	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	80* 32	1520	251.2	30.5	30	SM570		
1	FILL	PL	1840* 4	758	31.40	43.8	44	SS400		
420	FSPL	TCB	M 22* 145			0.748	314	S10T		
10	RSPL	PL	160* 12	780	94.20	11.8	118	SM570		
100	RSPL	TCB	M 22* 80			0.553	55	S10T		
2	WSPL	PL	2880* 9	620	70.65	126	252	SM570		
1	FILL	PL	2880* 2.3	308	18.06	16.0	16	SS400		
240	WSPL	TCB	M 22* 70			0.523	126	S10T		
2	WSPL	PL	2555* 9	620	70.65	112	224	SM570		
1	FILL	PL	2555* 2.3	308	18.06	14.2	14	SS400		
208	WSPL	TCB	M 22* 70			0.523	109	S10T		
G01-J12							2374 kg			
2@ G01-J12							4748 kg			

## Calculation Weight Main Girder G01J G01-J13

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 13	1070	102.0	201	201	SM490YA		
1	FSPL	PL	80* 18	1070	141.3	12.1	12	SM490YB		
6	FSPL	PL	190* 18	1070	141.3	28.7	172	SM490YB		
1	FSPL	PL	80* 18	1070	141.3	12.1	12	SM490YB		
1	FILL	PL	1840* 20	533	157.0	154	154	SS400		
196	FSPL	TCB	M 22* 115			0.658	129	S10T		
10	RSPL	PL	160* 12	630	94.20	9.50	95	SM490YA		
80	RSPL	TCB	M 22* 80			0.553	44	S10T		
2	WSPL	PL	2920* 9	620	70.65	128	256	SM490YA		
240	WSPL	TCB	M 22* 65			0.508	122	S10T		
2	WSPL	PL	2580* 9	620	70.65	113	226	SM490YA		
208	WSPL	TCB	M 22* 65			0.508	106	S10T		
G01-J13							1529 kg			
2@ G01-J13							3058 kg			

## Calculation Weight Main Girder G01J G01-J14

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 11	233	86.35	37.0	37	SS400		
84	FSPL	TCB	M 22* 80			0.553	46	S10T		

## Caluculation of Steel Weight

(Unit ; mm,kg)

10	RSPL	PL	160* 9	480	70.65	5.43	54	SM490YA		
60	RSPL	TCB	M 22* 75			0.538	32	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J14							809 kg			
2@ G01-J14							1618 kg			

## Calculation Weight Main Girder G01J G01-J15

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 2.3	233	18.06	7.74	8	SS400		
84	FSPL	TCB	M 22* 70			0.523	44	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J15							791 kg			
2@ G01-J15							1582 kg			

## Calculation Weight Main Girder G01J G01-J16

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 6	233	47.10	20.2	20	SS400		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

156	WSPL	TCB	M 22* 65			0.508	79	S10T		
							G01-J16		804 kg	
							2@ G01-J16		1608 kg	

## Calculation Weight Main Girder G01J G01-J17

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 10	620	78.50	89.6	90	SM490YA		
1	FSPL	PL	80* 14	620	109.9	5.45	5	SM490YA		
3	FSPL	PL	190* 14	620	109.9	12.9	39	SM490YA		
1	FSPL	PL	80* 14	620	109.9	5.45	5	SM490YA		
1	FILL	PL	1840* 2.3	308	18.06	10.2	10	SS400		
136	FSPL	TCB	M 22* 85			0.568	77	S10T		
4	RSPL	PL	160* 15	630	117.8	11.9	48	SM490YA		
32	RSPL	TCB	M 22* 85			0.568	18	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
							G01-J17		827 kg	
							2@ G01-J17		1654 kg	

## Calculation Weight Main Girder G01J G01-J18

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	620	70.65	80.6	81	SM490YA		
1	FSPL	PL	80* 14	620	109.9	5.45	5	SM490YA		
6	FSPL	PL	190* 14	620	109.9	12.9	77	SM490YA		
1	FSPL	PL	80* 14	620	109.9	5.45	5	SM490YA		
1	FILL	PL	1840* 3.2	308	25.12	14.2	14	SS400		
112	FSPL	TCB	M 22* 85			0.568	64	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
							G01-J18		937 kg	
							2@ G01-J18		1874 kg	

## Calculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G01J G01-J19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	620	70.65	80.6	81	SM490YA		
1	FSPL	PL	80* 12	620	94.20	4.67	5	SM490YA		
6	FSPL	PL	190* 12	620	94.20	11.1	67	SM490YA		
1	FSPL	PL	80* 12	620	94.20	4.67	5	SM490YA		
1	FILL	PL	1840* 2.3	308	18.06	10.2	10	SS400		
112	FSPL	TCB	M 22* 80			0.553	62	S10T		
10	RSPL	PL	160* 13	480	102.0	7.83	78	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
							G01-J19	876 kg		
							2@ G01-J19	1752 kg		

Calculation Weight Main Girder G01J G01-J20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
6	FSPL	PL	190* 10	470	78.50	7.01	42	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
							G01-J20	788 kg		
							2@ G01-J20	1576 kg		

Calculation Weight Main Girder G01J G01-J21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
6	FSPL	PL	190* 10	470	78.50	7.01	42	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J21								788 kg		
2@ G01-J21								1576 kg		

## Calculation Weight Main Girder G01J G01-J22

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	620	70.65	80.6	81	SM490YA		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM490YA		
6	FSPL	PL	190* 9	620	70.65	8.32	50	SM490YA		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM490YA		
112	FSPL	TCB	M 22* 85			0.568	64	S10T		
10	RSPL	PL	160* 10	480	78.50	6.03	60	SM490YA		
60	RSPL	TCB	M 22* 75			0.538	32	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J22								830 kg		
2@ G01-J22								1660 kg		

## Calculation Weight Main Girder G01J G01-J23

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 15	1370	117.8	297	297	SM570		
1	FSPL	PL	165* 21	1370	164.8	37.2	37	SM570		
6	FSPL	PL	220* 21	1370	164.8	49.7	298	SM570		
1	FSPL	PL	80* 21	1370	164.8	18.1	18	SM570		
1	FILL	PL	1840* 8	683	62.80	78.9	79	SS400		
378	FSPL	TCB	M 22* 110			0.643	243	S10T		
10	RSPL	PL	160* 12	780	94.20	11.8	118	SM570		
100	RSPL	TCB	M 22* 80			0.553	55	S10T		
2	WSPLI	PL	2900* 9	620	70.65	127	254	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		



## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WSPL	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPL	TCB	M 22* 65			0.508	106	S10T		
G01-J23							1853 kg			
2@ G01-J23							3706 kg			

## Calculation Weight Main Girder G01J G01-J24

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 15	1370	117.8	297	297	SM570		
1	FSPL	PL	165* 20	1370	157.0	35.5	36	SM570		
6	FSPL	PL	220* 20	1370	157.0	47.3	284	SM570		
1	FSPL	PL	80* 20	1370	157.0	17.2	17	SM570		
1	FILL	PL	1840* 8	683	62.80	78.9	79	SS400		
378	FSPL	TCB	M 22* 110			0.643	243	S10T		
10	RSPL	PL	160* 12	780	94.20	11.8	118	SM570		
100	RSPL	TCB	M 22* 80			0.553	55	S10T		
2	WSPL	PL	2900* 9	620	70.65	127	254	SM570		
240	WSPL	TCB	M 22* 65			0.508	122	S10T		
2	WSPL	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPL	TCB	M 22* 65			0.508	106	S10T		
G01-J24							1837 kg			
2@ G01-J24							3674 kg			

## Calculation Weight Main Girder G01J G01-J25

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM570		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM570		
3	FSPL	PL	440* 9	470	70.65	14.6	44	SM570		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM570		
1	FILL	PL	1840* 12	233	94.20	40.4	40	SS400		
102	FSPL	TCB	M 22* 85			0.568	58	S10T		
4	RSPL	PL	160* 9	630	70.65	7.12	28	SM570		
32	RSPL	TCB	M 22* 75			0.538	17	S10T		
2	WSPL	PL	2920* 9	620	70.65	128	256	SM570		
240	WSPL	TCB	M 22* 65			0.508	122	S10T		
2	WSPL	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPL	TCB	M 22* 65			0.508	106	S10T		
G01-J25							964 kg			
2@ G01-J25							1928 kg			

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G01J G01-J26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	320	70.65	41.6	42	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
3	FSPL	PL	440* 9	320	70.65	9.95	30	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	1840* 4	158	31.40	9.13	9	SS400		
68	FSPL	TCB	M 22* 75			0.538	37	S10T		
4	RSPL	PL	160* 11	480	86.35	6.63	27	SM490YA		
24	RSPL	TCB	M 22* 80			0.553	13	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
							G01-J26	697 kg		
							2@ G01-J26	1394 kg		

Calculation Weight Main Girder G01J G01-J27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	320	70.65	41.6	42	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
3	FSPL	PL	440* 9	320	70.65	9.95	30	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	1840* 4	158	31.40	9.13	9	SS400		
68	FSPL	TCB	M 22* 75			0.538	37	S10T		
4	RSPL	PL	160* 13	480	102.0	7.83	31	SM490YA		
24	RSPL	TCB	M 22* 80			0.553	13	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
							G01-J27	701 kg		
							2@ G01-J27	1402 kg		

Calculation Weight Main Girder G01J G01-J28										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	620	70.65	80.6	81	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	80* 11	620	86.35	4.28	4	SM570		
3	FSPL	PL	440* 11	620	86.35	23.6	71	SM570		
1	FSPL	PL	80* 11	620	86.35	4.28	4	SM570		
1	FILL	PL	1840* 8	308	62.80	35.6	36	SS400		
136	FSPL	TCB	M 22* 80			0.553	75	S10T		
4	RSPL	PL	160* 14	630	109.9	11.1	44	SM570		
32	RSPL	TCB	M 22* 85			0.568	18	S10T		
2	WSPL	PL	2920* 9	620	70.65	128	256	SM570		
240	WSPL	TCB	M 22* 65			0.508	122	S10T		
2	WSPL	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPL	TCB	M 22* 65			0.508	106	S10T		
G01-J28							1043 kg			
2@ G01-J28							2086 kg			

## Calculation Weight Main Girder G01J G01-J29

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	770	70.65	100	100	SM570		
1	FSPL	PL	80* 13	770	102.0	6.28	6	SM570		
6	FSPL	PL	190* 13	770	102.0	14.9	89	SM570		
1	FSPL	PL	80* 13	770	102.0	6.28	6	SM570		
1	FILL	PL	1840* 4	383	31.40	22.1	22	SS400		
140	FSPL	TCB	M 22* 85			0.568	80	S10T		
10	RSPL	PL	160* 13	630	102.0	10.3	103	SM570		
80	RSPL	TCB	M 22* 80			0.553	44	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM570		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPL	TCB	M 22* 65			0.508	106	S10T		
G01-J29							1067 kg			
2@ G01-J29							2134 kg			

## Calculation Weight Main Girder G01J G01-J30

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	770	70.65	100	100	SM570		
1	FSPL	PL	80* 14	770	109.9	6.77	7	SM570		
6	FSPL	PL	190* 14	770	109.9	16.1	97	SM570		
1	FSPL	PL	80* 14	770	109.9	6.77	7	SM570		
140	FSPL	TCB	M 22* 80			0.553	77	S10T		
10	RSPL	PL	160* 13	630	102.0	10.3	103	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

80	RSPL	TCB	M 22* 80			0.553	44	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM570		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPL	TCB	M 22* 65			0.508	106	S10T		
G01-J30							1052 kg			
2@ G01-J30							2104 kg			

## Calculation Weight Main Girder G01J G01-J31

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	770	70.65	100	100	SM490YA		
1	FSPL	PL	80* 14	770	109.9	6.77	7	SM490YA		
6	FSPL	PL	190* 14	770	109.9	16.1	97	SM490YA		
1	FSPL	PL	80* 14	770	109.9	6.77	7	SM490YA		
140	FSPL	TCB	M 22* 80			0.553	77	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
G01-J31							979 kg			
2@ G01-J31							1958 kg			

## Calculation Weight Main Girder G01J G01-J32

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 6	233	47.10	20.2	20	SS400		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		

## Calculation of Steel Weight

(Unit ; mm,kg)

G01-J32	804 kg
2@ G01-J32	1608 kg

Calculation Weight Main Girder G01J G01-J33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 4	233	31.40	13.5	14	SS400		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J33							798 kg			
2@ G01-J33							1596 kg			

Calculation Weight Main Girder G01J G01-J34										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	620	70.65	80.6	81	SM490YA		
1	FSPL	PL	80* 10	620	78.50	3.89	4	SM490YA		
6	FSPL	PL	190* 10	620	78.50	9.25	56	SM490YA		
1	FSPL	PL	80* 10	620	78.50	3.89	4	SM490YA		
1	FILL	PL	1840* 18	308	141.3	80.1	80	SS400		
112	FSPL	TCB	M 22* 90			0.583	65	S10T		
10	RSPL	PL	160* 11	630	86.35	8.70	87	SM490YA		
80	RSPL	TCB	M 22* 80			0.553	44	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J34							956 kg			
2@ G01-J34							1912 kg			

Calculation Weight Main Girder G01J G01-J35										

## Calculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 18	1370	141.3	356	356	SM570		
1	FSPL	PL	165* 25	1370	196.2	44.3	44	SM570		
6	FSPL	PL	220* 25	1370	196.2	59.1	355	SM570		
1	FSPL	PL	80* 25	1370	196.2	21.5	22	SM570		
1	FILL	PL	1840* 6	683	47.10	59.2	59	SS400		
378	FSPL	TCB	M 22* 120			0.673	254	S10T		
10	RSPL	PL	160* 12	780	94.20	11.8	118	SM570		
100	RSPL	TCB	M 22* 80			0.553	55	S10T		
2	WSPLI	PL	2900* 9	620	70.65	127	254	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J35							1969 kg			
2@ G01-J35							3938 kg			

## Calculation Weight Main Girder G01J G01-J36

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 20	1370	157.0	396	396	SM570		
1	FSPL	PL	165* 25	1370	196.2	44.3	44	SM570		
6	FSPL	PL	220* 25	1370	196.2	59.1	355	SM570		
1	FSPL	PL	80* 25	1370	196.2	21.5	22	SM570		
1	FILL	PL	1840* 6	683	47.10	59.2	59	SS400		
378	FSPL	TCB	M 22* 125			0.688	260	S10T		
10	RSPL	PL	160* 12	780	94.20	11.8	118	SM570		
100	RSPL	TCB	M 22* 80			0.553	55	S10T		
2	WSPLI	PL	2900* 9	620	70.65	127	254	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J36							2015 kg			
2@ G01-J36							4030 kg			

## Calculation Weight Main Girder G01J G01-J37

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	620	70.65	80.6	81	SM490YA		
1	FSPL	PL	80* 12	620	94.20	4.67	5	SM490YA		
3	FSPL	PL	440* 12	620	94.20	25.7	77	SM490YA		
1	FSPL	PL	80* 12	620	94.20	4.67	5	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FILL	PL	1840* 19	308	149.2	84.6	85	SS400		
136	FSPL	TCB	M 22* 100			0.613	83	S10T		
4	RSPL	PL	160* 12	630	94.20	9.50	38	SM490YA		
32	RSPL	TCB	M 22* 80			0.553	18	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	620	70.65	113	226	SM490YA		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J37							1009 kg			
2@ G01-J37							2018 kg			

## Calculation Weight Main Girder G01J G01-J38

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	320	70.65	41.6	42	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
3	FSPL	PL	440* 9	320	70.65	9.95	30	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	1840* 8	158	62.80	18.3	18	SS400		
68	FSPL	TCB	M 22* 75			0.538	37	S10T		
4	RSPL	PL	160* 11	480	86.35	6.63	27	SM490YA		
24	RSPL	TCB	M 22* 80			0.553	13	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J38							706 kg			
2@ G01-J38							1412 kg			

## Calculation Weight Main Girder G01J G01-J39

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	320	70.65	41.6	42	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
3	FSPL	PL	440* 9	320	70.65	9.95	30	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	1840* 9	158	70.65	20.5	20	SS400		
68	FSPL	TCB	M 22* 75			0.538	37	S10T		
4	RSPL	PL	160* 12	480	94.20	7.23	29	SM490YA		
24	RSPL	TCB	M 22* 80			0.553	13	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J39							710 kg			
2@ G01-J39							1420 kg			

## Calculation Weight Main Girder G01J G01-J40

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 11	770	86.35	122	122	SM490YA		
1	FSPL	PL	80* 15	770	117.8	7.26	7	SM490YA		
6	FSPL	PL	190* 15	770	117.8	17.2	103	SM490YA		
1	FSPL	PL	80* 15	770	117.8	7.26	7	SM490YA		
1	FILL	PL	1840* 4	383	31.40	22.1	22	SS400		
140	FSPL	TCB	M 22* 90			0.583	82	S10T		
10	RSPL	PL	160* 15	630	117.8	11.9	119	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J40							1042 kg			
2@ G01-J40							2084 kg			

## Calculation Weight Main Girder G01J G01-J41

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 12	920	94.20	159	159	SM490YA		
1	FSPL	PL	80* 19	920	149.2	11.0	11	SM490YB		
6	FSPL	PL	190* 19	920	149.2	26.1	157	SM490YB		
1	FSPL	PL	80* 19	920	149.2	11.0	11	SM490YB		
168	FSPL	TCB	M 22* 95			0.598	100	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J41							1129 kg			
2@ G01-J41							2258 kg			



## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G01J G01-J42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 12	920	94.20	159	159	SM490YA		
1	FSPL	PL	80* 19	920	149.2	11.0	11	SM490YB		
6	FSPL	PL	190* 19	920	149.2	26.1	157	SM490YB		
1	FSPL	PL	80* 19	920	149.2	11.0	11	SM490YB		
168	FSPL	TCB	M 22* 95			0.598	100	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
							G01-J42	1129 kg		
							2@ G01-J42	2258 kg		

Calculation Weight Main Girder G01J G01-J43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	770	70.65	100	100	SM490YA		
1	FSPL	PL	80* 14	770	109.9	6.77	7	SM490YA		
6	FSPL	PL	190* 14	770	109.9	16.1	97	SM490YA		
1	FSPL	PL	80* 14	770	109.9	6.77	7	SM490YA		
140	FSPL	TCB	M 22* 85			0.568	80	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
							G01-J43	982 kg		
							2@ G01-J43	1964 kg		

Calculation Weight Main Girder G01J G01-J44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J44								784 kg		
2@ G01-J44								1568 kg		

## Calculation Weight Main Girder G01J G01-J45

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J45								784 kg		
2@ G01-J45								1568 kg		

## Calculation Weight Main Girder G01J G01-J46

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	620	70.65	80.6	81	SM570		
1	FSPL	PL	165* 9	620	70.65	7.23	7	SM570		
6	FSPL	PL	220* 9	620	70.65	9.64	58	SM570		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM570		
1	FILL	PL	1840* 14	308	109.9	62.3	62	SS400		
112	FSPL	TCB	M 22* 85			0.568	64	S10T		
10	RSPL	PL	160* 9	630	70.65	7.12	71	SM570		
80	RSPL	TCB	M 22* 75			0.538	43	S10T		
2	WSPLI	PL	2920* 9	620	70.65	128	256	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WSPLI	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J46							1100 kg			
2@ G01-J46							2200 kg			

## Calculation Weight Main Girder G01J G01-J47

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 16	1370	125.6	317	317	SM570		
1	FSPL	PL	165* 23	1370	180.6	40.8	41	SM570		
6	FSPL	PL	220* 23	1370	180.6	54.4	326	SM570		
1	FSPL	PL	80* 23	1370	180.6	19.8	20	SM570		
1	FILL	PL	1840* 10	683	78.50	98.7	99	SS400		
378	FSPL	TCB	M 22* 120			0.673	254	S10T		
10	RSPL	PL	160* 12	780	94.20	11.8	118	SM570		
100	RSPL	TCB	M 22* 80			0.553	55	S10T		
2	WSPLI	PL	2900* 9	620	70.65	127	254	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	770	70.65	139	278	SM570		
260	WSPLI	TCB	M 22* 65			0.508	132	S10T		
G01-J47							2016 kg			
2@ G01-J47							4032 kg			

## Calculation Weight Main Girder G01J G01-J48

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 16	1670	125.6	386	386	SM570		
1	FSPL	PL	165* 23	1670	180.6	49.8	50	SM570		
6	FSPL	PL	220* 23	1670	180.6	66.4	398	SM570		
1	FSPL	PL	80* 23	1670	180.6	24.1	24	SM570		
1	FILL	PL	1840* 2.3	833	18.06	27.7	28	SS400		
308	FSPL	TCB	M 22* 120			0.673	207	S10T		
10	RSPL	PL	160* 11	630	86.35	8.70	87	SM570		
80	RSPL	TCB	M 22* 80			0.553	44	S10T		
2	WSPLI	PL	2900* 9	620	70.65	127	254	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J48							1930 kg			
2@ G01-J48							3860 kg			

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G01J G01-J49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	620	70.65	80.6	81	SM490YA		
1	FSPL	PL	80* 11	620	86.35	4.28	4	SM490YA		
3	FSPL	PL	440* 11	620	86.35	23.6	71	SM490YA		
1	FSPL	PL	80* 11	620	86.35	4.28	4	SM490YA		
1	FILL	PL	1840* 19	308	149.2	84.6	85	SS400		
136	FSPL	TCB	M 22* 95			0.598	81	S10T		
4	RSPL	PL	160* 11	630	86.35	8.70	35	SM490YA		
32	RSPL	TCB	M 22* 80			0.553	18	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
							G01-J49	914 kg		
							2@ G01-J49	1828 kg		

Calculation Weight Main Girder G01J G01-J50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 6	233	47.10	20.2	20	SS400		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
							G01-J50	804 kg		
							2@ G01-J50	1608 kg		

Calculation Weight Main Girder G01J G01-J51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 6	233	47.10	20.2	20	SS400		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
								G01-J51	804 kg	
								2@ G01-J51	1608 kg	

## Calculation Weight Main Girder G01J G01-J52

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 10	770	78.50	111	111	SM490YA		
1	FSPL	PL	80* 15	770	117.8	7.26	7	SM490YA		
6	FSPL	PL	190* 15	770	117.8	17.2	103	SM490YA		
1	FSPL	PL	80* 15	770	117.8	7.26	7	SM490YA		
1	FILL	PL	1840* 8	383	62.80	44.3	44	SS400		
140	FSPL	TCB	M 22* 90			0.583	82	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
								G01-J52	1045 kg	
								2@ G01-J52	2090 kg	

## Calculation Weight Main Girder G01J G01-J53

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 13	920	102.0	173	173	SM490YA		
1	FSPL	PL	80* 20	920	157.0	11.6	12	SM490YB		
6	FSPL	PL	190* 20	920	157.0	27.4	164	SM490YB		
1	FSPL	PL	80* 20	920	157.0	11.6	12	SM490YB		
168	FSPL	TCB	M 22* 100			0.613	103	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
G01-J53							1155 kg			
2@ G01-J53							2310 kg			

## Calculation Weight Main Girder G01J G01-J54

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 13	920	102.0	173	173	SM490YA		
1	FSPL	PL	80* 20	920	157.0	11.6	12	SM490YB		
6	FSPL	PL	190* 20	920	157.0	27.4	164	SM490YB		
1	FSPL	PL	80* 20	920	157.0	11.6	12	SM490YB		
168	FSPL	TCB	M 22* 100			0.613	103	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
G01-J54							1155 kg			
2@ G01-J54							2310 kg			

## Calculation Weight Main Girder G01J G01-J55

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 10	770	78.50	111	111	SM490YA		
1	FSPL	PL	80* 15	770	117.8	7.26	7	SM490YA		
6	FSPL	PL	190* 15	770	117.8	17.2	103	SM490YA		
1	FSPL	PL	80* 15	770	117.8	7.26	7	SM490YA		
1	FILL	PL	1840* 6	383	47.10	33.2	33	SS400		
140	FSPL	TCB	M 22* 90			0.583	82	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		

## Calculation of Steel Weight

(Unit ; mm,kg)

G01-J55	1034 kg
2@ G01-J55	2068 kg

Calculation Weight Main Girder G01J G01-J56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 6	233	47.10	20.2	20	SS400		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J56							804 kg			
2@ G01-J56							1608 kg			

Calculation Weight Main Girder G01J G01-J57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 6	233	47.10	20.2	20	SS400		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J57							804 kg			
2@ G01-J57							1608 kg			

Calculation Weight Main Girder G01J G01-J58										

## Calculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	620	70.65	80.6	81	SM490YA		
1	FSPL	PL	80* 10	620	78.50	3.89	4	SM490YA		
6	FSPL	PL	190* 10	620	78.50	9.25	56	SM490YA		
1	FSPL	PL	80* 10	620	78.50	3.89	4	SM490YA		
1	FILL	PL	1840* 16	308	125.6	71.2	71	SS400		
136	FSPL	TCB	M 22* 95			0.598	81	S10T		
4	RSPL	PL	160* 10	630	78.50	7.91	32	SM490YA		
32	RSPL	TCB	M 22* 75			0.538	17	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J58							881 kg			
2@ G01-J58							1762 kg			

## Calculation Weight Main Girder G01J G01-J59

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 15	1520	117.8	329	329	SM570		
1	FSPL	PL	80* 21	1520	164.8	20.0	20	SM570		
6	FSPL	PL	190* 21	1520	164.8	47.6	286	SM570		
1	FSPL	PL	80* 21	1520	164.8	20.0	20	SM570		
1	FILL	PL	1840* 2.3	758	18.06	25.2	25	SS400		
280	FSPL	TCB	M 22* 110			0.643	180	S10T		
10	RSPL	PL	160* 11	630	86.35	8.70	87	SM570		
80	RSPL	TCB	M 22* 80			0.553	44	S10T		
2	WSPLI	PL	2900* 9	620	70.65	127	254	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J59							1699 kg			
2@ G01-J59							3398 kg			

## Calculation Weight Main Girder G01J G01-J60

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 16	1070	125.6	247	247	SM570		
1	FSPL	PL	165* 22	1070	172.7	30.5	30	SM570		
6	FSPL	PL	220* 22	1070	172.7	40.7	244	SM570		
1	FSPL	PL	80* 22	1070	172.7	14.8	15	SM570		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FILL	PL	1840* 6	533	47.10	46.2	46	SS400		
294	FSPL	TCB	M 22* 115			0.658	193	S10T		
10	RSPL	PL	160* 11	780	86.35	10.8	108	SM570		
100	RSPL	TCB	M 22* 80			0.553	55	S10T		
2	WSPLI	PL	2900* 9	620	70.65	127	254	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J60							1646 kg			
2@ G01-J60							3292 kg			

## Calculation Weight Main Girder G01J G01-J61

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	620	70.65	80.6	81	SM570		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM570		
6	FSPL	PL	190* 9	620	70.65	8.32	50	SM570		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM570		
1	FILL	PL	1840* 15	308	117.8	66.8	67	SS400		
112	FSPL	TCB	M 22* 90			0.583	65	S10T		
10	RSPL	PL	160* 9	630	70.65	7.12	71	SM570		
80	RSPL	TCB	M 22* 75			0.538	43	S10T		
2	WSPLI	PL	2920* 9	620	70.65	128	256	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J61							1095 kg			
2@ G01-J61							2190 kg			

## Calculation Weight Main Girder G01J G01-J62

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 4	233	31.40	13.5	14	SS400		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J62							798 kg			
2@ G01-J62							1596 kg			

## Calculation Weight Main Girder G01J G01-J63

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
84	FSPL	TCB	M 22* 70			0.523	44	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J63							783 kg			
2@ G01-J63							1566 kg			

## Calculation Weight Main Girder G01J G01-J64

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	620	70.65	80.6	81	SM490YA		
1	FSPL	PL	80* 11	620	86.35	4.28	4	SM490YA		
6	FSPL	PL	190* 11	620	86.35	10.2	61	SM490YA		
1	FSPL	PL	80* 11	620	86.35	4.28	4	SM490YA		
1	FILL	PL	1840* 6	308	47.10	26.7	27	SS400		
112	FSPL	TCB	M 22* 75			0.538	60	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J64							928 kg			
2@ G01-J64							1856 kg			

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G01J G01-J65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	770	70.65	100	100	SM490YA		
1	FSPL	PL	80* 15	770	117.8	7.26	7	SM490YA		
6	FSPL	PL	190* 15	770	117.8	17.2	103	SM490YA		
1	FSPL	PL	80* 15	770	117.8	7.26	7	SM490YA		
140	FSPL	TCB	M 22* 80			0.553	77	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
							G01-J65	985 kg		
							2@ G01-J65	1970 kg		

Calculation Weight Main Girder G01J G01-J66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	770	70.65	100	100	SM490YA		
1	FSPL	PL	80* 14	770	109.9	6.77	7	SM490YA		
6	FSPL	PL	190* 14	770	109.9	16.1	97	SM490YA		
1	FSPL	PL	80* 14	770	109.9	6.77	7	SM490YA		
140	FSPL	TCB	M 22* 80			0.553	77	S10T		
10	RSPL	PL	160* 14	630	109.9	11.1	111	SM490YA		
80	RSPL	TCB	M 22* 85			0.568	45	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
							G01-J66	979 kg		
							2@ G01-J66	1958 kg		

Calculation Weight Main Girder G01J G01-J67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
6	FSPL	PL	190* 10	470	78.50	7.01	42	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
1	FILL	PL	1840* 4	233	31.40	13.5	14	SS400		
84	FSPL	TCB	M 22* 75			0.538	45	S10T		
10	RSPL	PL	160* 12	480	94.20	7.23	72	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
								G01-J67	808 kg	
								2@ G01-J67	1616 kg	

## Calculation Weight Main Girder G01J G01-J68

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
6	FSPL	PL	190* 9	470	70.65	6.31	38	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
84	FSPL	TCB	M 22* 70			0.523	44	S10T		
10	RSPL	PL	160* 11	480	86.35	6.63	66	SM490YA		
60	RSPL	TCB	M 22* 80			0.553	33	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
								G01-J68	783 kg	
								2@ G01-J68	1566 kg	

## Calculation Weight Main Girder G01J G01-J69

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	320	70.65	41.6	42	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
6	FSPL	PL	190* 9	320	70.65	4.30	26	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	1840* 6	158	47.10	13.7	14	SS400		
68	FSPL	TCB	M 22* 75			0.538	37	S10T		
4	RSPL	PL	160* 9	480	70.65	5.43	22	SM490YA		
24	RSPL	TCB	M 22* 75			0.538	13	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J69							693 kg			
2@ G01-J69							1386 kg			

## Calculation Weight Main Girder G01J G01-J70

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	770	70.65	100	100	SM570		
1	FSPL	PL	80* 12	770	94.20	5.80	6	SM570		
3	FSPL	PL	440* 12	770	94.20	31.9	96	SM570		
1	FSPL	PL	80* 12	770	94.20	5.80	6	SM570		
1	FILL	PL	1840* 22	383	172.7	122	122	SS400		
170	FSPL	TCB	M 22* 100			0.613	104	S10T		
4	RSPL	PL	160* 11	780	86.35	10.8	43	SM570		
40	RSPL	TCB	M 22* 80			0.553	22	S10T		
2	WSPLI	PL	2920* 9	620	70.65	128	256	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J70							1209 kg			
2@ G01-J70							2418 kg			

## Calculation Weight Main Girder G01J G01-J71

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 19	1970	149.2	541	541	SM570		
1	FSPL	PL	80* 26	1970	204.1	32.2	32	SM570		
6	FSPL	PL	190* 26	1970	204.1	76.4	458	SM570		
1	FSPL	PL	80* 26	1970	204.1	32.2	32	SM570		
1	FILL	PL	1840* 6	983	47.10	85.2	85	SS400		
364	FSPL	TCB	M 22* 130			0.703	256	S10T		
10	RSPL	PL	160* 11	780	86.35	10.8	108	SM570		
100	RSPL	TCB	M 22* 80			0.553	55	S10T		
2	WSPLI	PL	2880* 9	620	70.65	126	252	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J71							2271 kg			

## Calculation of Steel Weight

(Unit ; mm,kg)

2@ G01-J71	4542 kg
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Calculation Weight Main Girder G01J G01-J72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 17	1820	133.4	447	447	SM570		
1	FSPL	PL	80* 24	1820	188.4	27.4	27	SM570		
6	FSPL	PL	190* 24	1820	188.4	65.1	391	SM570		
1	FSPL	PL	80* 24	1820	188.4	27.4	27	SM570		
1	FILL	PL	1840* 8	908	62.80	105	105	SS400		
336	FSPL	TCB	M 22* 130			0.703	236	S10T		
10	RSPL	PL	160* 11	630	86.35	8.70	87	SM570		
80	RSPL	TCB	M 22* 80			0.553	44	S10T		
2	WSPL	PL	2900* 9	620	70.65	127	254	SM570		
240	WSPL	TCB	M 22* 65			0.508	122	S10T		
2	WSPL	PL	2555* 9	620	70.65	112	224	SM570		
208	WSPL	TCB	M 22* 65			0.508	106	S10T		
G01-J72							2070 kg			
2@ G01-J72							4140 kg			

Calculation Weight Main Girder G01J G01-J73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	770	70.65	100	100	SM570		
1	FSPL	PL	80* 10	770	78.50	4.84	5	SM570		
6	FSPL	PL	190* 10	770	78.50	11.5	69	SM570		
1	FSPL	PL	80* 10	770	78.50	4.84	5	SM570		
1	FILL	PL	1840* 21	383	164.8	116	116	SS400		
140	FSPL	TCB	M 22* 100			0.613	86	S10T		
10	RSPL	PL	160* 10	630	78.50	7.91	79	SM570		
80	RSPL	TCB	M 22* 75			0.538	43	S10T		
2	WSPL	PL	2920* 9	620	70.65	128	256	SM570		
240	WSPL	TCB	M 22* 65			0.508	122	S10T		
2	WSPL	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPL	TCB	M 22* 65			0.508	106	S10T		
G01-J73							1213 kg			
2@ G01-J73							2426 kg			

Calculation Weight Main Girder G01J G01-J74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
3	FSPL	PL	440* 9	470	70.65	14.6	44	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	1840* 4	233	31.40	13.5	14	SS400		
102	FSPL	TCB	M 22* 75			0.538	55	S10T		
4	RSPL	PL	160* 11	480	86.35	6.63	27	SM490YA		
24	RSPL	TCB	M 22* 80			0.553	13	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
G01-J74							755 kg			
2@ G01-J74							1510 kg			

## Calculation Weight Main Girder G01J G01-J75

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	470	70.65	61.1	61	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
3	FSPL	PL	440* 11	470	86.35	17.9	54	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
1	FILL	PL	1840* 9	233	70.65	30.3	30	SS400		
102	FSPL	TCB	M 22* 85			0.568	58	S10T		
4	RSPL	PL	160* 14	630	109.9	11.1	44	SM490YA		
32	RSPL	TCB	M 22* 85			0.568	18	S10T		
2	WSPL	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPL	TCB	M 22* 65			0.508	91	S10T		
2	WSPL	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPL	TCB	M 22* 65			0.508	79	S10T		
G01-J75							806 kg			
2@ G01-J75							1612 kg			

## Calculation Weight Main Girder G01J G01-J76

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 13	920	102.0	173	173	SM570		
1	FSPL	PL	80* 18	920	141.3	10.4	10	SM570		
3	FSPL	PL	440* 18	920	141.3	57.2	172	SM570		
1	FSPL	PL	80* 18	920	141.3	10.4	10	SM570		
1	FILL	PL	1840* 12	458	94.20	79.4	79	SS400		

## Caluculation of Steel Weight

(Unit ; mm,kg)

204	FSPL	TCB	M 22* 105			0.628	128	S10T		
4	RSPL	PL	160* 15	780	117.8	14.7	59	SM570		
40	RSPL	TCB	M 22* 85			0.568	23	S10T		
2	WSPLI	PL	2920* 9	620	70.65	128	256	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J76							1364 kg			
2@ G01-J76							2728 kg			

## Calculation Weight Main Girder G01J G01-J77

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 22	1220	172.7	388	388	SM570		
1	FSPL	PL	80* 29	1220	227.6	22.2	22	SM570		
3	FSPL	PL	440* 29	1220	227.6	122	366	SM570		
1	FSPL	PL	80* 29	1220	227.6	22.2	22	SM570		
1	FILL	PL	1840* 4	608	31.40	35.1	35	SS400		
272	FSPL	TCB	M 22* 130			0.703	191	S10T		
4	RSPL	PL	160* 14	780	109.9	13.7	55	SM570		
40	RSPL	TCB	M 22* 85			0.568	23	S10T		
2	WSPLI	PL	2880* 9	620	70.65	126	252	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
G01-J77							1806 kg			
2@ G01-J77							3612 kg			

## Calculation Weight Main Girder G01J G01-J78

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 24	1370	188.4	475	475	SM570		
1	FSPL	PL	80* 32	1370	251.2	27.5	28	SM570		
3	FSPL	PL	440* 32	1370	251.2	151	453	SM570		
1	FSPL	PL	80* 32	1370	251.2	27.5	28	SM570		
306	FSPL	TCB	M 22* 135			0.718	220	S10T		
4	RSPL	PL	160* 14	630	109.9	11.1	44	SM570		
32	RSPL	TCB	M 22* 85			0.568	18	S10T		
2	WSPLI	PL	2880* 9	620	70.65	126	252	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		



## Caluculation of Steel Weight

(Unit ; mm,kg)

208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
							G01-J78		1970 kg	
							2@ G01-J78		3940 kg	

## Calculation Weight Main Girder G01J G01-J79

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 21	1220	164.8	370	370	SM570		
1	FSPL	PL	80* 28	1220	219.8	21.5	22	SM570		
3	FSPL	PL	440* 28	1220	219.8	118	354	SM570		
1	FSPL	PL	80* 28	1220	219.8	21.5	22	SM570		
1	FILL	PL	1840* 4	608	31.40	35.1	35	SS400		
272	FSPL	TCB	M 22* 130			0.703	191	S10T		
4	RSPL	PL	160* 14	630	109.9	11.1	44	SM570		
32	RSPL	TCB	M 22* 85			0.568	18	S10T		
2	WSPLI	PL	2880* 9	620	70.65	126	252	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2555* 9	620	70.65	112	224	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
							G01-J79		1760 kg	
							2@ G01-J79		3520 kg	

## Calculation Weight Main Girder G01J G01-J80

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 12	770	94.20	133	133	SM570		
1	FSPL	PL	80* 16	770	125.6	7.74	8	SM570		
3	FSPL	PL	440* 16	770	125.6	42.6	128	SM570		
1	FSPL	PL	80* 16	770	125.6	7.74	8	SM570		
1	FILL	PL	1840* 14	383	109.9	77.4	77	SS400		
170	FSPL	TCB	M 22* 105			0.628	107	S10T		
4	RSPL	PL	160* 14	780	109.9	13.7	55	SM570		
40	RSPL	TCB	M 22* 85			0.568	23	S10T		
2	WSPLI	PL	2920* 9	620	70.65	128	256	SM570		
240	WSPLI	TCB	M 22* 65			0.508	122	S10T		
2	WSPLI	PL	2580* 9	620	70.65	113	226	SM570		
208	WSPLI	TCB	M 22* 65			0.508	106	S10T		
							G01-J80		1249 kg	
							2@ G01-J80		2498 kg	

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G01J G01-J81										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	1840* 9	320	70.65	41.6	42	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
3	FSPL	PL	440* 9	320	70.65	9.95	30	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	1840* 10	158	78.50	22.8	23	SS400		
68	FSPL	TCB	M 22* 80			0.553	38	S10T		
4	RSPL	PL	160* 11	480	86.35	6.63	27	SM490YA		
24	RSPL	TCB	M 22* 80			0.553	13	S10T		
2	WSPLI	PL	2920* 9	470	70.65	96.9	194	SM490YA		
180	WSPLI	TCB	M 22* 65			0.508	91	S10T		
2	WSPLI	PL	2580* 9	470	70.65	85.7	171	SM490YA		
156	WSPLI	TCB	M 22* 65			0.508	79	S10T		
G01-J81							712 kg			
2@ G01-J81							1424 kg			
G01J							192910 kg			

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G-2,3 BLOCK- 1										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2981* 14	10485	109.9	3435	3435	SM490YA		
2	RIB	PL	220* 19	980	149.2	32.2	64	SM490YB		
1	RIB	PL	220* 19	732	149.2	24.0	24	SM490YB		
1	RIB	PL	220* 19	9461	149.2	310	310	SM490YB		
1	RIB	PL	220* 19	9191	149.2	302	302	SM490YB		
1	RIB	PL	220* 19	9427	149.2	309	309	SM490YB		
1	LWEB	PL	2747* 11	10490	86.35	2489	2489	SM490YA		
1	RWEB	PL	2801* 11	10423	86.35	2521	2521	SM490YA		
1	HSTFL	PL	160* 16	1280	125.6	25.7	26	SM490YA		
1	HSTFL	PL	160* 16	1295	125.6	26.0	26	SM490YA		
1	HSTFL	PL	160* 16	1270	125.6	25.5	26	SM490YA		
1	HSTFL	PL	160* 16	1305	125.6	26.2	26	SM490YA		
1	HSTFL	PL	160* 16	1260	125.6	25.3	25	SM490YA		
1	HSTFL	PL	160* 16	1315	125.6	26.4	26	SM490YA		
1	HSTFL	PL	160* 16	1050	125.6	21.1	21	SM490YA		
1	HSTFL	PL	160* 16	1280	125.6	25.7	26	SM400A		
1	HSTFL	PL	160* 16	1295	125.6	26.0	26	SM400A		
1	HSTFL	PL	160* 16	1270	125.6	25.5	26	SM400A		
1	HSTFL	PL	160* 16	1305	125.6	26.2	26	SM400A		
1	HSTFL	PL	160* 16	1260	125.6	25.3	25	SM400A		
1	HSTFL	PL	160* 16	1315	125.6	26.4	26	SM400A		
1	HSTFL	PL	160* 16	1050	125.6	21.1	21	SM400A		
1	HSTFR	PL	160* 16	1280	125.6	25.7	26	SM490YA		
1	HSTFR	PL	160* 16	1270	125.6	25.5	26	SM490YA		
1	HSTFR	PL	160* 16	1295	125.6	26.0	26	SM490YA		
1	HSTFR	PL	160* 16	1260	125.6	25.3	25	SM490YA		
1	HSTFR	PL	160* 16	1305	125.6	26.2	26	SM490YA		
1	HSTFR	PL	160* 16	1250	125.6	25.1	25	SM490YA		
1	HSTFR	PL	160* 16	1050	125.6	21.1	21	SM490YA		
1	HSTFR	PL	160* 16	1280	125.6	25.7	26	SM400A		
1	HSTFR	PL	160* 16	1270	125.6	25.5	26	SM400A		
1	HSTFR	PL	160* 16	1295	125.6	26.0	26	SM400A		
1	HSTFR	PL	160* 16	1260	125.6	25.3	25	SM400A		
1	HSTFR	PL	160* 16	1305	125.6	26.2	26	SM400A		
1	HSTFR	PL	160* 16	1250	125.6	25.1	25	SM400A		
1	HSTFR	PL	160* 16	1050	125.6	21.1	21	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
3	VSTFL	PL	170* 16	1480	125.6	31.6	95	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
3	VSTFR	PL	170* 16	1531	125.6	32.7	98	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	SOLE	PL	1040* 30	870	235.5	213	213	SM490B		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		P13
2		PL	100* 9	172	70.65	1.22	2	SM400A		P13
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		P13
1	DIA	PL	2801* 11	2690	86.35	651	651	SM400A		P13
2	VSTFF	PL	220* 25	2400	196.2	104	208	SM400A		P13
4		PL	100* 9	1228	70.65	8.68	35	SM400A		P13
2		PL	100* 9	185	70.65	1.31	3	SM400A		P13
4		PL	130* 12	1228	94.20	15.0	60	SM400A		P13
2		PL	130* 12	185	94.20	2.27	5	SM400A		P13
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		P13
2		PL	100* 9	172	70.65	1.22	2	SM400A		P13
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		P13
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A		R1,R2,R3
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A		R1,R2,R3
3	WEB	PL	750* 9	2706	70.65	143	429	SM400A		R1,R2,R3
3	FLG	PL	200* 10	2690	78.50	42.2	127	SM400A		R1,R2,R3
3	WEB	PL	500* 9	2690	70.65	95.0	285	SM400A		R1,R2,R3
3	FLG	PL	100* 10	2690	78.50	21.1	63	SM400A		R1,R2,R3
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A		R1,R2,R3
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A		R1,R2,R3
BLOCK- 1								12916 kg		
2@ BLOCK- 1								25832 kg		

## Calculation Weight Main Girder G-2,3 BLOCK- 2

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 20	10098	157.0	4661	4661	SM570		
3	RIB	PL	220* 19	10099	149.2	332	996	SM570		
1	LWEB	PL	2747* 11	10106	86.35	2397	2397	SM570		
1	RWEB	PL	2801* 11	10106	86.35	2445	2445	SM570		
1	HSTFL	PL	160* 16	1020	125.6	20.5	20	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
3	HSTFL	PL	160* 16	1215	125.6	24.4	73	SM490YA		
2	HSTFL	PL	160* 16	1150	125.6	23.1	46	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	1020	125.6	20.5	20	SM400A		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM400A		
3	HSTFL	PL	160* 16	1215	125.6	24.4	73	SM400A		
2	HSTFL	PL	160* 16	1150	125.6	23.1	46	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	1280	125.6	25.7	26	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM490YA			
3	HSTFR	PL	160* 16	1150	125.6	23.1	69	SM490YA			
2	HSTFR	PL	160* 16	1215	125.6	24.4	49	SM490YA			
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA			
1	HSTFR	PL	160* 16	1280	125.6	25.7	26	SM400A			
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM400A			
3	HSTFR	PL	160* 16	1150	125.6	23.1	69	SM400A			
2	HSTFR	PL	160* 16	1215	125.6	24.4	49	SM400A			
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A			
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A			
3	VSTFL	PL	170* 16	1480	125.6	31.6	95	SM400A			
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A			
3	VSTFR	PL	170* 16	1531	125.6	32.7	98	SM400A			
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C1	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C1	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C1	
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C1	
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C1	
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C1	
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C1	
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C1	
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C1	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C1	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C1	
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A		R4,R5,R6	
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A		R4,R5,R6	
3	WEB	PL	750* 9	2706	70.65	143	429	SM400A		R4,R5,R6	
3	FLG	PL	200* 10	2690	78.50	42.2	127	SM400A		R4,R5,R6	
3	WEB	PL	500* 9	2690	70.65	95.0	285	SM400A		R4,R5,R6	
3	FLG	PL	100* 10	2690	78.50	21.1	63	SM400A		R4,R5,R6	
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A		R4,R5,R6	
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A		R4,R5,R6	
								BLOCK- 2			13525 kg
								2@ BLOCK- 2			27050 kg

## Calculation Weight Main Girder G-2,3 BLOCK- 3

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 28	9998	219.8	6460	6460	SM570		
3	RIB	PL	220* 19	9999	149.2	328	984	SM570		
1	LWEB	PL	2747* 11	10006	86.35	2374	2374	SM570		
1	RWEB	PL	2801* 11	10007	86.35	2420	2420	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	920	125.6	18.5	18	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
3	HSTFL	PL	160* 16	1215	125.6	24.4	73	SM490YA		
2	HSTFL	PL	160* 16	1150	125.6	23.1	46	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	920	125.6	18.5	18	SM400A		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM400A		
3	HSTFL	PL	160* 16	1215	125.6	24.4	73	SM400A		
2	HSTFL	PL	160* 16	1150	125.6	23.1	46	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	910	125.6	18.3	18	SM490YA		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM490YA		
3	HSTFR	PL	160* 16	1150	125.6	23.1	69	SM490YA		
2	HSTFR	PL	160* 16	1215	125.6	24.4	49	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	910	125.6	18.3	18	SM400A		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM400A		
3	HSTFR	PL	160* 16	1150	125.6	23.1	69	SM400A		
2	HSTFR	PL	160* 16	1215	125.6	24.4	49	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
3	VSTFL	PL	170* 16	1480	125.6	31.6	95	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
3	VSTFR	PL	170* 16	1531	125.6	32.7	98	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C2
2		PL	100* 9	172	70.65	1.22	2	SM400A		C2
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C2
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C2
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C2
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C2
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C2
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C2
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C2
2		PL	100* 9	172	70.65	1.22	2	SM400A		C2
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C2
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A		R7,R8,R9
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A		R7,R8,R9
3	WEB	PL	750* 9	2706	70.65	143	429	SM400A		R7,R8,R9
3	FLG	PL	200* 10	2690	78.50	42.2	127	SM400A		R7,R8,R9
3	WEB	PL	500* 9	2690	70.65	95.0	285	SM400A		R7,R8,R9
3	FLG	PL	100* 10	2690	78.50	21.1	63	SM400A		R7,R8,R9
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A		R7,R8,R9
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A		R7,R8,R9

## Caluculation of Steel Weight

(Unit ; mm,kg)

BLOCK- 3	15244 kg
2@ BLOCK- 3	30488 kg

Calculation Weight Main Girder G-2,3 BLOCK- 4										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 32	9998	251.2	7383	7383	SM570		
3	RIB	PL	220* 19	9999	149.2	328	984	SM570		
1	LWEB	PL	2747* 11	10006	86.35	2374	2374	SM570		
1	RWEB	PL	2801* 11	10007	86.35	2420	2420	SM570		
1	HSTFL	PL	160* 16	920	125.6	18.5	18	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
3	HSTFL	PL	160* 16	1215	125.6	24.4	73	SM490YA		
2	HSTFL	PL	160* 16	1150	125.6	23.1	46	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	920	125.6	18.5	18	SM400A		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM400A		
3	HSTFL	PL	160* 16	1215	125.6	24.4	73	SM400A		
2	HSTFL	PL	160* 16	1150	125.6	23.1	46	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	910	125.6	18.3	18	SM490YA		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM490YA		
3	HSTFR	PL	160* 16	1150	125.6	23.1	69	SM490YA		
2	HSTFR	PL	160* 16	1215	125.6	24.4	49	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	910	125.6	18.3	18	SM400A		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM400A		
3	HSTFR	PL	160* 16	1150	125.6	23.1	69	SM400A		
2	HSTFR	PL	160* 16	1215	125.6	24.4	49	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
3	VSTFL	PL	170* 16	1480	125.6	31.6	95	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
3	VSTFR	PL	170* 16	1531	125.6	32.7	98	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C3
2		PL	100* 9	172	70.65	1.22	2	SM400A		C3
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C3
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C3
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C3
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C3
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C3
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C3

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C3	
2		PL	100* 9	172	70.65	1.22	2	SM400A	C3	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C3	
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A	R10,R11,R12	
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A	R10,R11,R12	
3	WEB	PL	750* 9	2706	70.65	143	429	SM400A	R10,R11,R12	
3	FLG	PL	200* 10	2690	78.50	42.2	127	SM400A	R10,R11,R12	
3	WEB	PL	500* 9	2690	70.65	95.0	285	SM400A	R10,R11,R12	
3	FLG	PL	100* 10	2690	78.50	21.1	63	SM400A	R10,R11,R12	
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A	R10,R11,R12	
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A	R10,R11,R12	
BLOCK- 4							16167 kg			
2@ BLOCK- 4							32334 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 5

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 32	10025	251.2	7403	7403	SM570		
3	RIB	PL	220* 19	9998	149.2	328	984	SM570		
1	LWEB	PL	2747* 11	10005	86.35	2373	2373	SM570		
1	RWEB	PL	2801* 11	10031	86.35	2426	2426	SM570		
1	HSTFL	PL	160* 16	920	125.6	18.5	18	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFL	PL	160* 16	1215	125.6	24.4	24	SM490YA		
1	HSTFL	PL	160* 16	1150	125.6	23.1	23	SM490YA		
1	HSTFL	PL	160* 16	1205	125.6	24.2	24	SM490YA		
1	HSTFL	PL	160* 16	1155	125.6	23.2	23	SM490YA		
1	HSTFL	PL	160* 16	1195	125.6	24.0	24	SM490YA		
1	HSTFL	PL	160* 16	945	125.6	19.0	19	SM490YA		
1	HSTFL	PL	160* 16	920	125.6	18.5	18	SM400A		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM400A		
1	HSTFL	PL	160* 16	1215	125.6	24.4	24	SM400A		
1	HSTFL	PL	160* 16	1150	125.6	23.1	23	SM400A		
1	HSTFL	PL	160* 16	1205	125.6	24.2	24	SM400A		
1	HSTFL	PL	160* 16	1155	125.6	23.2	23	SM400A		
1	HSTFL	PL	160* 16	1195	125.6	24.0	24	SM400A		
1	HSTFL	PL	160* 16	945	125.6	19.0	19	SM400A		
1	HSTFR	PL	160* 16	910	125.6	18.3	18	SM490YA		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFR	PL	160* 16	1150	125.6	23.1	23	SM490YA		
1	HSTFR	PL	160* 16	1215	125.6	24.4	24	SM490YA		
1	HSTFR	PL	160* 16	1155	125.6	23.2	23	SM490YA		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFR	PL	160* 16	1205	125.6	24.2	24	SM490YA				
1	HSTFR	PL	160* 16	1170	125.6	23.5	24	SM490YA				
1	HSTFR	PL	160* 16	885	125.6	17.8	18	SM490YA				
1	HSTFR	PL	160* 16	910	125.6	18.3	18	SM400A				
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM400A				
1	HSTFR	PL	160* 16	1150	125.6	23.1	23	SM400A				
1	HSTFR	PL	160* 16	1215	125.6	24.4	24	SM400A				
1	HSTFR	PL	160* 16	1155	125.6	23.2	23	SM400A				
1	HSTFR	PL	160* 16	1205	125.6	24.2	24	SM400A				
1	HSTFR	PL	160* 16	1170	125.6	23.5	24	SM400A				
1	HSTFR	PL	160* 16	885	125.6	17.8	18	SM400A				
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A				
3	VSTFL	PL	170* 16	1480	125.6	31.6	95	SM400A				
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A				
3	VSTFR	PL	170* 16	1531	125.6	32.7	98	SM400A				
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C4		
2		PL	100* 9	172	70.65	1.22	2	SM400A		C4		
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C4		
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C4		
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C4		
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C4		
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C4		
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C4		
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C4		
2		PL	100* 9	172	70.65	1.22	2	SM400A		C4		
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C4		
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A		R13,R14,R15		
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A		R13,R14,R15		
3	WEB	PL	750* 9	2706	70.65	143	429	SM400A		R13,R14,R15		
3	FLG	PL	200* 10	2690	78.50	42.2	127	SM400A		R13,R14,R15		
3	WEB	PL	500* 9	2690	70.65	95.0	285	SM400A		R13,R14,R15		
3	FLG	PL	100* 10	2690	78.50	21.1	63	SM400A		R13,R14,R15		
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A		R13,R14,R15		
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A		R13,R14,R15		
							BLOCK- 5				16190 kg	
							2@ BLOCK- 5				32380 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 6

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 32	10004	251.2	7388	7388	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	LWEB	PL	2747* 11	10004	86.35	2373	2373	SM570			
1	RWEB	PL	2801* 11	10012	86.35	2421	2421	SM570			
1	HSTFL	PL	160* 16	945	125.6	19.0	19	SM490YA			
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA			
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA			
1	HSTFL	PL	160* 16	945	125.6	19.0	19	SM400A			
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A			
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A			
1	HSTFR	PL	160* 16	885	125.6	17.8	18	SM490YA			
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA			
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA			
1	HSTFR	PL	160* 16	885	125.6	17.8	18	SM400A			
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A			
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A			
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A			
3	VSTFL	PL	170* 16	1480	125.6	31.6	95	SM400A			
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A			
3	VSTFR	PL	170* 16	1531	125.6	32.7	98	SM400A			
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C5	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C5	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C5	
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C5	
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C5	
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C5	
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C5	
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C5	
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C5	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C5	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C5	
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A		R16,R17,R18	
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A		R16,R17,R18	
3	WEB	PL	750* 9	2706	70.65	143	429	SM400A		R16,R17,R18	
3	FLG	PL	200* 10	2690	78.50	42.2	127	SM400A		R16,R17,R18	
3	WEB	PL	500* 9	2690	70.65	95.0	285	SM400A		R16,R17,R18	
3	FLG	PL	100* 10	2690	78.50	21.1	63	SM400A		R16,R17,R18	
3	WEB	PL	172* 9	753	70.65	9.15	27	SM400A		R16,R17,R18	
3	FLG	PL	200* 10	172	78.50	2.70	8	SM400A		R16,R17,R18	
								BLOCK- 6			16172 kg
								2@ BLOCK- 6			32344 kg

Calculation Weight Main Girder G-2,3 BLOCK- 7

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 26	9995	204.1	5998	5998	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM570		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C6
2		PL	100* 9	172	70.65	1.22	2	SM400A		C6
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C6
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C6
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C6
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C6
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C6
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C6
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C6
2		PL	100* 9	172	70.65	1.22	2	SM400A		C6
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C6
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R19,R21
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R19,R21
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R19,R21
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R19,R21
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R19,R21
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R19,R21
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R19,R21
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R19,R21
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R20
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R20
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R20

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	200* 9	1494	70.65	21.1	42	SM400A	R20	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R20	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R20	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R20	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R20	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R20	
BLOCK- 7							15152 kg			
2@ BLOCK- 7							30304 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 8

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 18	9995	141.3	4153	4153	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM570		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C7
2		PL	100* 9	172	70.65	1.22	2	SM400A		C7
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C7
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C7
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C7
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C7
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C7
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C7
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C7
2		PL	100* 9	172	70.65	1.22	2	SM400A		C7

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C7	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R22,R24	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R22,R24	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R22,R24	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R22,R24	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R22,R24	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R22,R24	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R22,R24	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R22,R24	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R23	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R23	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R23	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R23	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R23	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R23	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R23	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R23	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R23	
BLOCK- 8							13309 kg			
2@ BLOCK- 8							26618 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 9

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 18	9995	141.3	4153	4153	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C8
2		PL	100* 9	172	70.65	1.22	2	SM400A		C8
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C8
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C8
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C8
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C8
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C8
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C8
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C8
2		PL	100* 9	172	70.65	1.22	2	SM400A		C8
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C8
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R25,R27
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R25,R27
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R25,R27
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R25,R27
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R25,R27
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R25,R27
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R25,R27
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R25,R27
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R26
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R26
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R26
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R26
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R26
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R26
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R26
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R26
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R26
BLOCK- 9							13599 kg			
2@ BLOCK- 9							27198 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 10

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 27	9995	212.0	6231	6231	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM570		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	VSTFL	PL	170* 16	2745	125.6	58.6	176	SM400A		
2	VSTFL	PL	170* 16	1474	125.6	31.5	63	SM400A		
3	VSTFR	PL	170* 16	2795	125.6	59.7	179	SM400A		
2	VSTFR	PL	170* 16	1525	125.6	32.6	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C9
2		PL	100* 9	172	70.65	1.22	2	SM400A		C9
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C9
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C9
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C9
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C9
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C9
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C9
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C9
2		PL	100* 9	172	70.65	1.22	2	SM400A		C9
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C9
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R28,R30
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R28,R30
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R28,R30
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R28,R30
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R28,R30
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R28,R30
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R28,R30
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R28,R30
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R29
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R29
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R29
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R29
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R29
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R29

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R29	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R29	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R29	
BLOCK- 10							16701 kg			
2@ BLOCK- 10							33402 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 11

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 32	7495	251.2	5536	5536	SM570		
7	RIB	PL	220* 19	7496	149.2	246	1722	SM570		
1	LWEB	PL	2736* 11	7503	86.35	1773	1773	SM570		
1	RWEB	PL	2790* 11	7503	86.35	1807	1807	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	725	125.6	14.6	15	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	725	125.6	14.6	15	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	725	125.6	14.6	15	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	725	125.6	14.6	15	SM490YA		
2	VSTFL	PL	170* 16	2740	125.6	58.5	117	SM400A		
1	VSTFL	PL	170* 16	1469	125.6	31.4	31	SM400A		
2	VSTFR	PL	170* 16	2790	125.6	59.6	119	SM400A		
1	VSTFR	PL	170* 16	1520	125.6	32.5	32	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C10
2		PL	100* 9	172	70.65	1.22	2	SM400A		C10
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C10
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C10
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C10
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C10
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C10
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C10
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C10
2		PL	100* 9	172	70.65	1.22	2	SM400A		C10
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C10
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R31
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R31



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	750* 9	2706	70.65	143	143	SM400A	R31
1	FLG	PL	200* 10	2690	78.50	42.2	42	SM400A	R31
1	WEB	PL	500* 9	2690	70.65	95.0	95	SM400A	R31
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R31
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R31
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R31
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R32
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R32
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R32
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R32
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R32
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R32
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R32
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R32
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R32
BLOCK- 11								13508 kg	
2@ BLOCK- 11								27016 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 12

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 40	6745	314.0	6227	6227	SM570		
4	RIB	PL	240* 19	6746	149.2	242	968	SM570		
1	RIB	PL	240* 19	3438	149.2	123	123	SM570		
2	RIB	PL	240* 19	3247	149.2	116	232	SM570		
1	RIB	PL	240* 19	2688	149.2	96.2	96	SM570		
2	RIB	PL	240* 19	2498	149.2	89.4	179	SM570		
1	LWEB	PL	2736* 13	6753	102.0	1885	1885	SM570		
1	RWEB	PL	2790* 13	6753	102.0	1922	1922	SM570		
1	HSTFL	PL	160* 16	725	125.6	14.6	15	SM400A		
2	HSTFL	PL	160* 16	1180	125.6	23.7	47	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	725	125.6	14.6	15	SM490YA		
2	HSTFL	PL	160* 16	1180	125.6	23.7	47	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	725	125.6	14.6	15	SM400A		
2	HSTFR	PL	160* 16	1180	125.6	23.7	47	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	725	125.6	14.6	15	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	HSTFR	PL	160* 16	1180	125.6	23.7	47	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	VSTFL	PL	170* 16	2740	125.6	58.5	117	SM400A		
2	VSTFL	PL	170* 16	1469	125.6	31.4	63	SM400A		
2	VSTFR	PL	170* 16	2790	125.6	59.6	119	SM400A		
2	VSTFR	PL	170* 16	1520	125.6	32.5	65	SM400A		
1	SOLE	PL	1340* 45	970	353.2	459	459	SM490C		
1	WEB	PL	2236* 9	170	70.65	26.9	27	SM400A		P14
2		PL	100* 9	172	70.65	1.22	2	SM400A		P14
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		P14
1	DIA	PL	2790* 19	2690	149.2	1120	1120	SM400A		P14
2	VSTFF	PL	270* 30	2400	235.5	153	306	SM400A		P14
4		PL	100* 9	1130	70.65	7.98	32	SM400A		P14
2		PL	100* 9	370	70.65	2.61	5	SM400A		P14
4		PL	130* 12	1130	94.20	13.8	55	SM400A		P14
2		PL	130* 12	370	94.20	4.53	9	SM400A		P14
1	WEB	PL	2294* 9	170	70.65	27.6	28	SM400A		P14
2		PL	100* 9	172	70.65	1.22	2	SM400A		P14
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		P14
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R33,R34
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R33,R34
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R33,R34
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R33,R34
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R33,R34
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R33,R34
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R33,R34
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R33,R34
BLOCK- 12								15145 kg		
2@ BLOCK- 12								30290 kg		

## Calculation Weight Main Girder G-2,3 BLOCK- 13

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 35	9995	274.8	8076	8076	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		
1	LWEB	PL	2736* 11	10003	86.35	2363	2363	SM570		
1	RWEB	PL	2790* 11	10003	86.35	2410	2410	SM570		
1	HSTFL	PL	160* 16	475	125.6	9.55	10	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	475	125.6	9.55	10	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	475	125.6	9.55	10	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	475	125.6	9.55	10	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	2740	125.6	58.5	234	SM400A		
2	VSTFL	PL	170* 16	1469	125.6	31.4	63	SM400A		
4	VSTFR	PL	170* 16	2790	125.6	59.6	238	SM400A		
2	VSTFR	PL	170* 16	1520	125.6	32.5	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C11
2		PL	100* 9	172	70.65	1.22	2	SM400A		C11
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C11
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C11
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C11
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C11
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C11
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C11
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C11
2		PL	100* 9	172	70.65	1.22	2	SM400A		C11
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C11
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R35,R38
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R35,R38
2	DIA	PL	2801* 9	2980	70.65	590	1180	SM400A		R35,R38
4		PL	200* 9	1494	70.65	21.1	84	SM400A		R35,R38
4		PL	200* 9	1515	70.65	21.4	86	SM400A		R35,R38
4		PL	100* 10	2690	78.50	21.1	84	SM400A		R35,R38
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R35,R38
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R35,R38
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R35,R38
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R36,R37
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R36,R37
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R36,R37
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R36,R37
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R36,R37
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R36,R37
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R36,R37
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R36,R37
BLOCK- 13								19381 kg		
2@ BLOCK- 13								38762 kg		

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G-2,3 BLOCK- 14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 24	9245	188.4	5121	5121	SM570		
4	RIB	PL	220* 19	994	149.2	32.6	130	SM570		
3	RIB	PL	220* 19	9246	149.2	303	909	SM570		
1	LWEB	PL	2747* 11	9253	86.35	2195	2195	SM570		
1	RWEB	PL	2801* 11	9253	86.35	2238	2238	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	2745	125.6	58.6	176	SM400A		
2	VSTFL	PL	170* 16	1474	125.6	31.5	63	SM400A		
3	VSTFR	PL	170* 16	2795	125.6	59.7	179	SM400A		
2	VSTFR	PL	170* 16	1525	125.6	32.6	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C12
2		PL	100* 9	172	70.65	1.22	2	SM400A		C12
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C12
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C12
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C12
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C12
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C12
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C12
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C12
2		PL	100* 9	172	70.65	1.22	2	SM400A		C12
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C12
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R39,R40
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R39,R40
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R39,R40

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R39,R40	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R39,R40	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R39,R40	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R39,R40	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R39,R40	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R41	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R41	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R41	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R41	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R41	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R41	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R41	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R41	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R41	
BLOCK- 14							13916 kg			
2@ BLOCK- 14							27832 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 15

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 19	9995	149.2	4385	4385	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C13
2		PL	100* 9	172	70.65	1.22	2	SM400A		C13

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C13	
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C13	
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C13	
2		PL	200* 9	1526	70.65	21.6	43	SM400A	C13	
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C13	
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C13	
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C13	
2		PL	100* 9	172	70.65	1.22	2	SM400A	C13	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C13	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R42,R43	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R42,R43	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R42,R43	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R42,R43	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R42,R43	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R42,R43	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R42,R43	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R42,R43	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R44	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R44	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R44	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R44	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R44	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R44	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R44	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R44	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R44	
BLOCK- 15							13547 kg			
2@ BLOCK- 15							27094 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 16

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 17	9995	133.4	3921	3921	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM490YA		
2	VSTFL	PL	170* 16	2751	125.6	58.7	117	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
1	VSTFL	PL	170* 16	2716	125.6	58.0	58	SM400A		
2	VSTFR	PL	170* 16	2801	125.6	59.8	120	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	VSTFR	PL	170* 16	2766	125.6	59.1	59	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C14
2		PL	100* 9	172	70.65	1.22	2	SM400A		C14
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C14
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C14
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C14
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C14
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C14
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C14
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C14
2		PL	100* 9	172	70.65	1.22	2	SM400A		C14
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C14
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R45,R46
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R45,R46
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R45,R46
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R45,R46
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R45,R46
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R45,R46
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R45,R46
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R45,R46
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R47
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R47
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R47
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R47
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R47
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R47
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R47
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R47

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R47	
BLOCK- 16							13366 kg			
2@ BLOCK- 16							26732 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 17

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 17	9995	133.4	3921	3921	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C15
2		PL	100* 9	172	70.65	1.22	2	SM400A		C15
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C15
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C15
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C15
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C15
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C15
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C15
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C15
2		PL	100* 9	172	70.65	1.22	2	SM400A		C15
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C15
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R48,R49
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R48,R49
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R48,R49
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R48,R49



## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R48,R49	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R48,R49	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R48,R49	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R48,R49	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R50	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R50	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R50	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R50	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R50	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R50	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R50	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R50	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R50	
BLOCK- 17							13079 kg			
2@ BLOCK- 17							26158 kg			

Calculation Weight Main Girder G-2,3 BLOCK- 18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 17	7495	133.4	2940	2940	SM490YB		
3	RIB	PL	220* 19	7496	149.2	246	738	SM490YB		
1	LWEB	PL	2747* 11	7503	86.35	1780	1780	SM490YA		
1	RWEB	PL	2801* 11	7503	86.35	1815	1815	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
2	VSTFL	PL	170* 16	2716	125.6	58.0	116	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
2	VSTFR	PL	170* 16	2766	125.6	59.1	118	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C16
2		PL	100* 9	172	70.65	1.22	2	SM400A		C16
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C16

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C16
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C16
2		PL	200* 9	1526	70.65	21.6	43	SM400A	C16
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C16
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C16
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C16
2		PL	100* 9	172	70.65	1.22	2	SM400A	C16
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C16
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R51,R52
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R51,R52
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R51,R52
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R51,R52
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R51,R52
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R51,R52
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R51,R52
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R51,R52
BLOCK- 18								9587 kg	
2@ BLOCK- 18								19174 kg	

Calculation Weight Main Girder G-2,3 BLOCK- 19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 17	9995	133.4	3921	3921	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A	C17		
2		PL	100* 9	172	70.65	1.22	2	SM400A	C17		
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C17		
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C17		
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C17		
2		PL	200* 9	1526	70.65	21.6	43	SM400A	C17		
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C17		
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C17		
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C17		
2		PL	100* 9	172	70.65	1.22	2	SM400A	C17		
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C17		
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R53		
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R53		
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R53		
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R53		
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R53		
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R53		
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R53		
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R53		
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R53		
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R54,R55		
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R54,R55		
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R54,R55		
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R54,R55		
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R54,R55		
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R54,R55		
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R54,R55		
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R54,R55		
							BLOCK- 19				13079 kg
							2@ BLOCK- 19				26158 kg

## Calculation Weight Main Girder G-2,3 BLOCK- 20

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 15	9995	117.8	3462	3462	SM490YA		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C18
2		PL	100* 9	172	70.65	1.22	2	SM400A		C18
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C18
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C18
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C18
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C18
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C18
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C18
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C18
2		PL	100* 9	172	70.65	1.22	2	SM400A		C18
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C18
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R56
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R56
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R56
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R56
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R56
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R56
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R56
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R56
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R56
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R57,R58
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R57,R58
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R57,R58
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R57,R58
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R57,R58
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R57,R58
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R57,R58
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R57,R58
BLOCK- 20								12620 kg		
2@ BLOCK- 20								25240 kg		

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G-2,3 BLOCK- 21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 15	9995	117.8	3462	3462	SM490YA		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C19
2		PL	100* 9	172	70.65	1.22	2	SM400A		C19
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C19
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C19
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C19
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C19
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C19
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C19
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C19
2		PL	100* 9	172	70.65	1.22	2	SM400A		C19
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C19
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R59
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R59
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R59
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R59

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	200* 9	1515	70.65	21.4	43	SM400A	R59
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R59
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R59
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R59
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R59
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R60,R61
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R60,R61
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R60,R61
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R60,R61
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R60,R61
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R60,R61
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R60,R61
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R60,R61
BLOCK- 21								12908 kg	
2@ BLOCK- 21								25816 kg	

Calculation Weight Main Girder G-2,3 BLOCK- 22										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 20	9245	157.0	4267	4267	SM490YB		
3	RIB	PL	220* 19	9246	149.2	303	909	SM490YB		
1	LWEB	PL	2747* 11	9253	86.35	2195	2195	SM490YA		
1	RWEB	PL	2801* 11	9253	86.35	2238	2238	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C20
2		PL	100* 9	172	70.65	1.22	2	SM400A		C20
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C20
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C20
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C20
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C20
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C20
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C20
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C20
2		PL	100* 9	172	70.65	1.22	2	SM400A		C20
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C20
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R62
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R62
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R62
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R62
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R62
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R62
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R62
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R62
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R62
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R63,R64
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R63,R64
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R63,R64
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R63,R64
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R63,R64
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R63,R64
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R63,R64
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R63,R64
BLOCK- 22							12932 kg			
2@ BLOCK- 22							25864 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 23

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 27	9995	212.0	6231	6231	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		
1	LWEB	PL	2744* 11	10003	86.35	2370	2370	SM570		
1	RWEB	PL	2798* 11	10003	86.35	2417	2417	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	2748	125.6	58.7	235	SM400A		
2	VSTFL	PL	170* 16	1477	125.6	31.5	63	SM400A		
4	VSTFR	PL	170* 16	2798	125.6	59.7	239	SM400A		
2	VSTFR	PL	170* 16	1528	125.6	32.6	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C21
2		PL	100* 9	172	70.65	1.22	2	SM400A		C21
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C21
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C21
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C21
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C21
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C21
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C21
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C21
2		PL	100* 9	172	70.65	1.22	2	SM400A		C21
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C21
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R65,R68
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R65,R68
2	DIA	PL	2801* 9	2980	70.65	590	1180	SM400A		R65,R68
4		PL	200* 9	1494	70.65	21.1	84	SM400A		R65,R68
4		PL	200* 9	1515	70.65	21.4	86	SM400A		R65,R68
4		PL	100* 10	2690	78.50	21.1	84	SM400A		R65,R68
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R65,R68
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R65,R68
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R65,R68
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R66,R67
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R66,R67
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R66,R67
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R66,R67
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R66,R67
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R66,R67
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R66,R67
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R66,R67
BLOCK- 23										
								17564 kg		



## Caluculation of Steel Weight

(Unit ; mm,kg)

2@ BLOCK- 23

35128 kg

Calculation Weight Main Girder G-2,3 BLOCK- 24										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 27	5995	212.0	3738	3738	SM570		
4	RIB	PL	220* 19	5996	149.2	197	788	SM570		
4	RIB	PL	220* 19	2498	149.2	82.0	328	SM570		
2	RIB	PL	220* 19	2718	149.2	89.2	178	SM570		
1	LWEB	PL	2744* 11	6003	86.35	1422	1422	SM570		
1	RWEB	PL	2798* 11	6003	86.35	1451	1451	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	VSTFL	PL	170* 16	2748	125.6	58.7	117	SM400A		
2	VSTFL	PL	170* 16	1477	125.6	31.5	63	SM400A		
2	VSTFR	PL	170* 16	2798	125.6	59.7	119	SM400A		
2	VSTFR	PL	170* 16	1528	125.6	32.6	65	SM400A		
1	SOLE	PL	1340* 40	970	314.0	408	408	SM490B		
1	WEB	PL	2236* 9	170	70.65	26.9	27	SM400A		P15
2		PL	100* 9	170	70.65	1.20	2	SM400A		P15
1	FLG	PL	250* 12	170	94.20	4.00	4	SM400A		P15
1	DIA	PL	2798* 19	2690	149.2	1123	1123	SM400A		P15
2	VSTFF	PL	240* 27	2400	212.0	122	244	SM400A		P15
4		PL	100* 9	1132	70.65	8.00	32	SM400A		P15
2		PL	100* 9	373	70.65	2.64	5	SM400A		P15
4		PL	130* 12	1132	94.20	13.9	56	SM400A		P15
2		PL	130* 12	373	94.20	4.57	9	SM400A		P15
1	WEB	PL	2302* 9	172	70.65	28.0	28	SM400A		P15
2		PL	100* 9	170	70.65	1.20	2	SM400A		P15
1	FLG	PL	250* 12	170	94.20	4.00	4	SM400A		P15
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R69,R70
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R69,R70
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R69,R70

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R69,R70
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R69,R70
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R69,R70
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R69,R70
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R69,R70
BLOCK- 24							11265 kg			
2@ BLOCK- 24							22530 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 25

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 27	9995	212.0	6231	6231	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		
1	LWEB	PL	2744* 11	10003	86.35	2370	2370	SM570		
1	RWEB	PL	2798* 11	10003	86.35	2417	2417	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	2748	125.6	58.7	235	SM400A		
2	VSTFL	PL	170* 16	1477	125.6	31.5	63	SM400A		
4	VSTFR	PL	170* 16	2798	125.6	59.7	239	SM400A		
2	VSTFR	PL	170* 16	1528	125.6	32.6	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C22
2		PL	100* 9	172	70.65	1.22	2	SM400A		C22
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C22
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C22
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C22
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C22
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C22
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C22
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C22
2		PL	100* 9	172	70.65	1.22	2	SM400A		C22
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C22

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R71,R74
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R71,R74
2	DIA	PL	2801* 9	2980	70.65	590	1180	SM400A	R71,R74
4		PL	200* 9	1494	70.65	21.1	84	SM400A	R71,R74
4		PL	200* 9	1515	70.65	21.4	86	SM400A	R71,R74
4		PL	100* 10	2690	78.50	21.1	84	SM400A	R71,R74
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R71,R74
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R71,R74
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R71,R74
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R72,R73
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R72,R73
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R72,R73
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R72,R73
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R72,R73
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R72,R73
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R72,R73
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R72,R73
BLOCK- 25								17564 kg	
2@ BLOCK- 25								35128 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 26

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 21	9245	164.8	4479	4479	SM570		
3	RIB	PL	220* 19	9246	149.2	303	909	SM570		
1	LWEB	PL	2747* 11	9253	86.35	2195	2195	SM570		
1	RWEB	PL	2801* 11	9253	86.35	2238	2238	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA			
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A			
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A			
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A			
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A			
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C23	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C23	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C23	
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C23	
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C23	
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C23	
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C23	
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C23	
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C23	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C23	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C23	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R75,R76	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R75,R76	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R75,R76	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R75,R76	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R75,R76	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R75,R76	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R75,R76	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R75,R76	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R77	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R77	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R77	
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R77	
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R77	
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R77	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R77	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R77	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R77	
							BLOCK- 26				13142 kg
							2@ BLOCK- 26				26284 kg

## Calculation Weight Main Girder G-2,3 BLOCK- 27

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 21	9995	164.8	4843	4843	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM570		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM490YA		
2	VSTFL	PL	170* 16	2751	125.6	58.7	117	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
1	VSTFL	PL	170* 16	2716	125.6	58.0	58	SM400A		
2	VSTFR	PL	170* 16	2801	125.6	59.8	120	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	VSTFR	PL	170* 16	2766	125.6	59.1	59	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C24
2		PL	100* 9	172	70.65	1.22	2	SM400A		C24
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C24
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C24
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C24
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C24
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C24
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C24
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C24
2		PL	100* 9	172	70.65	1.22	2	SM400A		C24
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C24
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R78,R79
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R78,R79
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R78,R79
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R78,R79
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R78,R79
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R78,R79
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R78,R79
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R78,R79
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R80

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R80	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R80	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R80	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R80	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R80	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R80	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R80	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R80	
BLOCK- 27							14288 kg			
2@ BLOCK- 27							28576 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 28

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 21	9995	164.8	4843	4843	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C25
2		PL	100* 9	172	70.65	1.22	2	SM400A		C25
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C25
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C25
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C25
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C25
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C25
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C25

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C25
2		PL	100* 9	172	70.65	1.22	2	SM400A	C25
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C25
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R81,R82
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R81,R82
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R81,R82
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R81,R82
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R81,R82
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R81,R82
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R81,R82
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R81,R82
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R83
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R83
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R83
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R83
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R83
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R83
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R83
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R83
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R83
BLOCK- 28								14001 kg	
2@ BLOCK- 28								28002 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 29

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 21	9995	164.8	4843	4843	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C26
2		PL	100* 9	172	70.65	1.22	2	SM400A		C26
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C26
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C26
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C26
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C26
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C26
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C26
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C26
2		PL	100* 9	172	70.65	1.22	2	SM400A		C26
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C26
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R84,R85
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R84,R85
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R84,R85
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R84,R85
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R84,R85
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R84,R85
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R84,R85
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R84,R85
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R86
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R86
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R86
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R86
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R86
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R86
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R86
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R86
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R86
							BLOCK- 29		14001 kg	
							2@ BLOCK- 29		28002 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 30

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 21	7495	164.8	3632	3632	SM490YB		
3	RIB	PL	220* 19	7496	149.2	246	738	SM490YB		
1	LWEB	PL	2747* 11	7503	86.35	1780	1780	SM490YA		
1	RWEB	PL	2801* 11	7503	86.35	1815	1815	SM490YA		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
2	VSTFL	PL	170* 16	2716	125.6	58.0	116	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
2	VSTFR	PL	170* 16	2766	125.6	59.1	118	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C27
2		PL	100* 9	172	70.65	1.22	2	SM400A		C27
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C27
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C27
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C27
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C27
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C27
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C27
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C27
2		PL	100* 9	172	70.65	1.22	2	SM400A		C27
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C27
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R87,R88
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R87,R88
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R87,R88
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R87,R88
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R87,R88
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R87,R88
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R87,R88
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R87,R88
BLOCK- 30								10279 kg		
2@ BLOCK- 30								20558 kg		

## Calculation Weight Main Girder G-2,3 BLOCK- 31

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 21	9995	164.8	4843	4843	SM490YB		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C28
2		PL	100* 9	172	70.65	1.22	2	SM400A		C28
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C28
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C28
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C28
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C28
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C28
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C28
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C28
2		PL	100* 9	172	70.65	1.22	2	SM400A		C28
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C28
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R89
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R89
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R89
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R89
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R89
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R89
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R89
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R89
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R89
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R90,R91
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R90,R91
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R90,R91
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R90,R91

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R90,R91
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R90,R91
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R90,R91
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R90,R91
BLOCK- 31								14001 kg	
2@ BLOCK- 31								28002 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 32

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C29
2		PL	100* 9	172	70.65	1.22	2	SM400A		C29
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C29
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C29
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C29
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C29
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C29
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C29
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C29
2		PL	100* 9	172	70.65	1.22	2	SM400A		C29
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C29
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R92

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R92
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R92
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R92
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R92
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R92
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R92
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R92
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R92
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R93,R94
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R93,R94
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R93,R94
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R93,R94
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R93,R94
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R93,R94
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R93,R94
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R93,R94
BLOCK- 32								12849 kg	
2@ BLOCK- 32								25698 kg	

Calculation Weight Main Girder G-2,3 BLOCK- 33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C30
2		PL	100* 9	172	70.65	1.22	2	SM400A		C30
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C30
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C30
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C30
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C30
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C30
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C30
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C30
2		PL	100* 9	172	70.65	1.22	2	SM400A		C30
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C30
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R95
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R95
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R95
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R95
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R95
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R95
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R95
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R95
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R95
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R96,R97
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R96,R97
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R96,R97
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R96,R97
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R96,R97
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R96,R97
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R96,R97
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R96,R97
								BLOCK- 33		13137 kg
								2@ BLOCK- 33		26274 kg

## Calculation Weight Main Girder G-2,3 BLOCK- 34

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 22	9245	172.7	4694	4694	SM490YB		
3	RIB	PL	220* 19	9246	149.2	303	909	SM490YB		
4	RIB	PL	220* 19	994	149.2	32.6	130	SM570		
1	LWEB	PL	2747* 11	9253	86.35	2195	2195	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	RWEB	PL	2801* 11	9253	86.35	2238	2238	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C31
2		PL	100* 9	172	70.65	1.22	2	SM400A		C31
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C31
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C31
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C31
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C31
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C31
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C31
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C31
2		PL	100* 9	172	70.65	1.22	2	SM400A		C31
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C31
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R98
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R98
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R98
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R98
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R98
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R98
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R98
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R98
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R98
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R99,R100
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R99,R100

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R99,R100	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R99,R100	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R99,R100	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R99,R100	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R99,R100	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R99,R100	
BLOCK- 34							13491 kg			
2@ BLOCK- 34							26982 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 35

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 30	9995	235.5	6921	6921	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		
1	LWEB	PL	2741* 11	10003	86.35	2368	2368	SM570		
1	RWEB	PL	2795* 11	10003	86.35	2414	2414	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	2745	125.6	58.6	234	SM400A		
2	VSTFL	PL	170* 16	1474	125.6	31.5	63	SM400A		
4	VSTFR	PL	170* 16	2795	125.6	59.7	239	SM400A		
2	VSTFR	PL	170* 16	1525	125.6	32.6	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C32
2		PL	100* 9	172	70.65	1.22	2	SM400A		C32
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C32
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C32
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C32
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C32
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C32
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C32
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C32
2		PL	100* 9	172	70.65	1.22	2	SM400A		C32

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C32	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R101,R104	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R101,R104	
2	DIA	PL	2801* 9	2980	70.65	590	1180	SM400A	R101,R104	
4		PL	200* 9	1494	70.65	21.1	84	SM400A	R101,R104	
4		PL	200* 9	1515	70.65	21.4	86	SM400A	R101,R104	
4		PL	100* 10	2690	78.50	21.1	84	SM400A	R101,R104	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R101,R104	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R101,R104	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R101,R104	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R102,R103	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R102,R103	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R102,R103	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R102,R103	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R102,R103	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R102,R103	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R102,R103	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R102,R103	
BLOCK- 35							18252 kg			
2@ BLOCK- 35							36504 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 36

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 30	5995	235.5	4152	4152	SM570		
4	RIB	PL	220* 19	5996	149.2	197	788	SM570		
4	RIB	PL	220* 19	2498	149.2	82.0	328	SM570		
2	RIB	PL	220* 19	2718	149.2	89.2	178	SM570		
1	LWEB	PL	2741* 11	6003	86.35	1420	1420	SM570		
1	RWEB	PL	2795* 11	6003	86.35	1449	1449	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		



## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFL	PL	170* 16	2745	125.6	58.6	117	SM400A		
2	VSTFL	PL	170* 16	1474	125.6	31.5	63	SM400A		
2	VSTFR	PL	170* 16	2795	125.6	59.7	119	SM400A		
2	VSTFR	PL	170* 16	1525	125.6	32.6	65	SM400A		
1	SOLE	PL	1340* 40	970	314.0	408	408	SM490B		
1	WEB	PL	2241* 9	172	70.65	27.2	27	SM400A		P16
2		PL	100* 9	170	70.65	1.20	2	SM400A		P16
1	FLG	PL	250* 12	170	94.20	4.00	4	SM400A		P16
1	DIA	PL	2795* 19	2690	149.2	1122	1122	SM400A		P16
2	VSTFF	PL	240* 27	2400	212.0	122	244	SM400A		P16
4		PL	100* 9	1132	70.65	8.00	32	SM400A		P16
2		PL	100* 9	373	70.65	2.64	5	SM400A		P16
4		PL	130* 12	1132	94.20	13.9	56	SM400A		P16
2		PL	130* 12	373	94.20	4.57	9	SM400A		P16
1	WEB	PL	2299* 9	172	70.65	27.9	28	SM400A		P16
2		PL	100* 9	170	70.65	1.20	2	SM400A		P16
1	FLG	PL	250* 12	170	94.20	4.00	4	SM400A		P16
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R105,R106
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R105,R106
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R105,R106
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R105,R106
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R105,R106
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R105,R106
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R105,R106
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R105,R106
								BLOCK- 36		11678 kg
								2@ BLOCK- 36		23356 kg

## Calculation Weight Main Girder G-2,3 BLOCK- 37

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 30	9995	235.5	6921	6921	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		
1	LWEB	PL	2741* 11	10003	86.35	2368	2368	SM570		
1	RWEB	PL	2795* 11	10003	86.35	2414	2414	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A			
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A			
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA			
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA			
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA			
4	VSTFL	PL	170* 16	2745	125.6	58.6	234	SM400A			
2	VSTFL	PL	170* 16	1474	125.6	31.5	63	SM400A			
4	VSTFR	PL	170* 16	2795	125.6	59.7	239	SM400A			
2	VSTFR	PL	170* 16	1525	125.6	32.6	65	SM400A			
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C33	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C33	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C33	
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C33	
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C33	
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C33	
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C33	
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C33	
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C33	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C33	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C33	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R107,R110	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R107,R110	
2	DIA	PL	2801* 9	2980	70.65	590	1180	SM400A		R107,R110	
4		PL	200* 9	1494	70.65	21.1	84	SM400A		R107,R110	
4		PL	200* 9	1515	70.65	21.4	86	SM400A		R107,R110	
4		PL	100* 10	2690	78.50	21.1	84	SM400A		R107,R110	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R107,R110	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R107,R110	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R107,R110	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R108,R109	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R108,R109	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R108,R109	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R108,R109	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R108,R109	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R108,R109	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R108,R109	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R108,R109	
								BLOCK- 37			18252 kg
								2@ BLOCK- 37			36504 kg

Calculation Weight Main Girder G-2,3 BLOCK- 38

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 23	9245	180.6	4909	4909	SM490YB		
4	RIB	PL	220* 19	994	149.2	32.6	130	SM570		
3	RIB	PL	220* 19	9246	149.2	303	909	SM490YB		
1	LWEB	PL	2747* 11	9253	86.35	2195	2195	SM490YA		
1	RWEB	PL	2801* 11	9253	86.35	2238	2238	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C34
2		PL	100* 9	172	70.65	1.22	2	SM400A		C34
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C34
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C34
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C34
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C34
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C34
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C34
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C34
2		PL	100* 9	172	70.65	1.22	2	SM400A		C34
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C34
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R111,R112
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R111,R112
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R111,R112
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R111,R112
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R111,R112
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R111,R112

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R111,R112	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R111,R112	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R113	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R113	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R113	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R113	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R113	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R113	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R113	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R113	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R113	
BLOCK- 38							13706 kg			
2@ BLOCK- 38							27412 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 39

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 15	9995	117.8	3462	3462	SM490YA		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A	C35	

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	100* 9	172	70.65	1.22	2	SM400A	C35
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C35
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C35
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C35
2		PL	200* 9	1526	70.65	21.6	43	SM400A	C35
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C35
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C35
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C35
2		PL	100* 9	172	70.65	1.22	2	SM400A	C35
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C35
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R114,R115
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R114,R115
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R114,R115
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R114,R115
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R114,R115
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R114,R115
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R114,R115
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R114,R115
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R116
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R116
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R116
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R116
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R116
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R116
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R116
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R116
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R116
							BLOCK- 39		12908 kg
							2@ BLOCK- 39		25816 kg

## Calculation Weight Main Girder G-2,3 BLOCK- 40

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 15	9995	117.8	3462	3462	SM490YA		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A	
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA	
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA	
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA	
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A	
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A	
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A	
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A	
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A	
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A	
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A	
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A	C36
2		PL	100* 9	172	70.65	1.22	2	SM400A	C36
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C36
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C36
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C36
2		PL	200* 9	1526	70.65	21.6	43	SM400A	C36
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C36
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C36
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C36
2		PL	100* 9	172	70.65	1.22	2	SM400A	C36
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C36
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R117,R118
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R117,R118
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R117,R118
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R117,R118
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R117,R118
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R117,R118
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R117,R118
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R117,R118
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R119
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R119
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R119
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R119
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R119
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R119
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R119
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R119
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R119
BLOCK- 40								12620 kg	
2@ BLOCK- 40								25240 kg	

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G-2,3 BLOCK- 41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 19	9995	149.2	4385	4385	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C37
2		PL	100* 9	172	70.65	1.22	2	SM400A		C37
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C37
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C37
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C37
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C37
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C37
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C37
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C37
2		PL	100* 9	172	70.65	1.22	2	SM400A		C37
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C37
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R120,R121
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R120,R121
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R120,R121
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R120,R121
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R120,R121
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R120,R121
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R120,R121
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R120,R121
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R122

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R122	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R122	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R122	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R122	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R122	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R122	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R122	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R122	
BLOCK- 41							13543 kg			
2@ BLOCK- 41							27086 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 42

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 19	7495	149.2	3288	3288	SM490YB		
3	RIB	PL	220* 19	7496	149.2	246	738	SM490YB		
1	LWEB	PL	2747* 11	7503	86.35	1780	1780	SM490YA		
1	RWEB	PL	2801* 11	7503	86.35	1815	1815	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
2	VSTFL	PL	170* 16	2716	125.6	58.0	116	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
2	VSTFR	PL	170* 16	2766	125.6	59.1	118	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C38
2		PL	100* 9	172	70.65	1.22	2	SM400A		C38
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C38
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C38
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C38
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C38
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C38
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C38



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C38	
2		PL	100* 9	172	70.65	1.22	2	SM400A	C38	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C38	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R123,R124	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R123,R124	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R123,R124	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R123,R124	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R123,R124	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R123,R124	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R123,R124	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R123,R124	
BLOCK- 42							9935 kg			
2@ BLOCK- 42							19870 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 43

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 19	9995	149.2	4385	4385	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A	C39	
2		PL	100* 9	172	70.65	1.22	2	SM400A	C39	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C39	
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C39	
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C39	

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	200* 9	1526	70.65	21.6	43	SM400A	C39	
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C39	
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C39	
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C39	
2		PL	100* 9	172	70.65	1.22	2	SM400A	C39	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C39	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R125	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R125	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R125	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R125	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R125	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R125	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R125	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R125	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R125	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R126,R127	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R126,R127	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R126,R127	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R126,R127	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R126,R127	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R126,R127	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R126,R127	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R126,R127	
							BLOCK- 43		13543 kg	
							2@ BLOCK- 43		27086 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 44

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 15	9995	117.8	3462	3462	SM490YA		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C40
2		PL	100* 9	172	70.65	1.22	2	SM400A		C40
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C40
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C40
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C40
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C40
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C40
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C40
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C40
2		PL	100* 9	172	70.65	1.22	2	SM400A		C40
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C40
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R128
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R128
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R128
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R128
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R128
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R128
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R128
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R128
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R128
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R129,R130
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R129,R130
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R129,R130
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R129,R130
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R129,R130
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R129,R130
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R129,R130
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R129,R130
BLOCK- 44								12620 kg		
2@ BLOCK- 44								25240 kg		

## Calculation Weight Main Girder G-2,3 BLOCK- 45

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 15	10000	117.8	3463	3463	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	RIB	PL	220* 19	10000	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10000	86.35	2372	2372	SM490YA		
1	RWEB	PL	2801* 11	10000	86.35	2419	2419	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C41
2		PL	100* 9	172	70.65	1.22	2	SM400A		C41
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C41
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C41
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C41
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C41
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C41
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C41
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C41
2		PL	100* 9	172	70.65	1.22	2	SM400A		C41
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C41
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R131
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R131
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R131
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R131
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R131
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R131
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R131
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R131
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R131

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R132,R133
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R132,R133
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R132,R133
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R132,R133
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R132,R133
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R132,R133
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R132,R133
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R132,R133
BLOCK- 45							12907 kg			
2@ BLOCK- 45							25814 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 46

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 20	9245	157.0	4267	4267	SM570		
3	RIB	PL	220* 19	9246	149.2	303	909	SM570		
4	RIB	PL	220* 19	994	149.2	32.6	130	SM570		
1	LWEB	PL	2747* 11	9253	86.35	2195	2195	SM570		
1	RWEB	PL	2801* 11	9253	86.35	2238	2238	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C42
2		PL	100* 9	172	70.65	1.22	2	SM400A		C42
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C42

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C42
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C42
2		PL	200* 9	1526	70.65	21.6	43	SM400A	C42
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C42
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C42
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C42
2		PL	100* 9	172	70.65	1.22	2	SM400A	C42
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C42
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R134
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R134
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R134
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R134
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R134
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R134
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R134
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R134
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R134
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R135,R136
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R135,R136
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R135,R136
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R135,R136
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R135,R136
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R135,R136
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R135,R136
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R135,R136
BLOCK- 46								13062 kg	
2@ BLOCK- 46								26124 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 47

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 29	9995	227.6	6689	6689	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		
1	LWEB	PL	2742* 11	10003	86.35	2369	2369	SM570		
1	RWEB	PL	2796* 11	10003	86.35	2415	2415	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	2746	125.6	58.6	234	SM400A		
2	VSTFL	PL	170* 16	1475	125.6	31.5	63	SM400A		
4	VSTFR	PL	170* 16	2796	125.6	59.7	239	SM400A		
2	VSTFR	PL	170* 16	1526	125.6	32.6	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C43
2		PL	100* 9	172	70.65	1.22	2	SM400A		C43
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C43
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C43
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C43
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C43
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C43
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C43
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C43
2		PL	100* 9	172	70.65	1.22	2	SM400A		C43
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C43
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R137,R140
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R137,R140
2	DIA	PL	2801* 9	2980	70.65	590	1180	SM400A		R137,R140
4		PL	200* 9	1494	70.65	21.1	84	SM400A		R137,R140
4		PL	200* 9	1515	70.65	21.4	86	SM400A		R137,R140
4		PL	100* 10	2690	78.50	21.1	84	SM400A		R137,R140
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R137,R140
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R137,R140
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R137,R140
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R138,R139
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R138,R139
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R138,R139
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R138,R139
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R138,R139
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R138,R139
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R138,R139
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R138,R139
								BLOCK- 47	18020 kg	
								2@ BLOCK- 47	36040 kg	

Calculation Weight Main Girder G-2,3 BLOCK- 48

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 31	5995	243.4	4291	4291	SM570		
4	RIB	PL	220* 19	5996	149.2	197	788	SM570		
4	RIB	PL	220* 19	2498	149.2	82.0	328	SM570		
2	RIB	PL	220* 19	2718	149.2	89.2	178	SM570		
1	LWEB	PL	2742* 11	6003	86.35	1421	1421	SM570		
1	RWEB	PL	2796* 11	6003	86.35	1449	1449	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	VSTFL	PL	170* 16	2746	125.6	58.6	117	SM400A		
2	VSTFL	PL	170* 16	1475	125.6	31.5	63	SM400A		
2	VSTFR	PL	170* 16	2796	125.6	59.7	119	SM400A		
2	VSTFR	PL	170* 16	1526	125.6	32.6	65	SM400A		
1	SOLE	PL	1340* 40	970	314.0	408	408	SM490B		
1	WEB	PL	2242* 9	172	70.65	27.2	27	SM400A		P17
2		PL	100* 9	170	70.65	1.20	2	SM400A		P17
1	FLG	PL	250* 12	170	94.20	4.00	4	SM400A		P17
1	DIA	PL	2796* 19	2690	149.2	1122	1122	SM400A		P17
2	VSTFF	PL	240* 27	2400	212.0	122	244	SM400A		P17
4		PL	100* 9	1132	70.65	8.00	32	SM400A		P17
2		PL	100* 9	373	70.65	2.64	5	SM400A		P17
4		PL	130* 12	1132	94.20	13.9	56	SM400A		P17
2		PL	130* 12	373	94.20	4.57	9	SM400A		P17
1	WEB	PL	2300* 9	172	70.65	27.9	28	SM400A		P17
2		PL	100* 9	170	70.65	1.20	2	SM400A		P17
1	FLG	PL	250* 12	170	94.20	4.00	4	SM400A		P17
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R141,R142
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R141,R142
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R141,R142
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R141,R142
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R141,R142
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R141,R142
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R141,R142



## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R141,R142	
BLOCK- 48							11818 kg				
2@ BLOCK- 48							23636 kg				

## Calculation Weight Main Girder G-2,3 BLOCK- 49

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 28	9995	219.8	6460	6460	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		
1	LWEB	PL	2742* 11	10003	86.35	2369	2369	SM570		
1	RWEB	PL	2796* 11	10003	86.35	2415	2415	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	2746	125.6	58.6	234	SM400A		
2	VSTFL	PL	170* 16	1475	125.6	31.5	63	SM400A		
4	VSTFR	PL	170* 16	2796	125.6	59.7	239	SM400A		
2	VSTFR	PL	170* 16	1526	125.6	32.6	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C44
2		PL	100* 9	172	70.65	1.22	2	SM400A		C44
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C44
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C44
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C44
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C44
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C44
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C44
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C44
2		PL	100* 9	172	70.65	1.22	2	SM400A		C44
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C44
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R143,R146
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R143,R146
2	DIA	PL	2801* 9	2980	70.65	590	1180	SM400A		R143,R146
4		PL	200* 9	1494	70.65	21.1	84	SM400A		R143,R146

## Caluculation of Steel Weight

(Unit ; mm,kg)

4		PL	200* 9	1515	70.65	21.4	86	SM400A		R143,R146
4		PL	100* 10	2690	78.50	21.1	84	SM400A		R143,R146
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R143,R146
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R143,R146
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R143,R146
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R144,R145
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R144,R145
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R144,R145
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R144,R145
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R144,R145
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R144,R145
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R144,R145
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R144,R145
BLOCK- 49							17791 kg			
2@ BLOCK- 49							35582 kg			

Calculation Weight Main Girder G-2,3 BLOCK- 50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 20	9245	157.0	4267	4267	SM570		
4	RIB	PL	220* 19	994	149.2	32.6	130	SM570		
3	RIB	PL	220* 19	9246	149.2	303	909	SM570		
1	LWEB	PL	2747* 11	9253	86.35	2195	2195	SM570		
1	RWEB	PL	2801* 11	9253	86.35	2238	2238	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A			
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A			
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A			
2		PL	100* 9	172	70.65	1.22	2	SM400A		C45	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C45	
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C45	
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C45	
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C45	
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C45	
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C45	
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C45	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C45	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C45	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R147,R148	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R147,R148	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R147,R148	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R147,R148	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R147,R148	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R147,R148	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R147,R148	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R147,R148	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R149	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R149	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R149	
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R149	
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R149	
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R149	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R149	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R149	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R149	
								BLOCK- 50			13062 kg
								2@ BLOCK- 50			26124 kg

## Calculation Weight Main Girder G-2,3 BLOCK- 51

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 15	9995	117.8	3462	3462	SM490YA		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C46
2		PL	100* 9	172	70.65	1.22	2	SM400A		C46
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C46
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C46
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C46
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C46
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C46
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C46
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C46
2		PL	100* 9	172	70.65	1.22	2	SM400A		C46
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C46
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R150,R151
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R150,R151
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R150,R151
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R150,R151
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R150,R151
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R150,R151
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R150,R151
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R150,R151
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R152
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R152
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R152
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R152
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R152
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R152

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R152	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R152	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R152	
BLOCK- 51							12908 kg			
2@ BLOCK- 51							25816 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 52

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 18	9995	141.3	4153	4153	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C47
2		PL	100* 9	172	70.65	1.22	2	SM400A		C47
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C47
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C47
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C47
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C47
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C47
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C47
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C47
2		PL	100* 9	172	70.65	1.22	2	SM400A		C47
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C47
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R153,R154
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R153,R154

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R153,R154	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R153,R154	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R153,R154	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R153,R154	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R153,R154	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R153,R154	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R155	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R155	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R155	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R155	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R155	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R155	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R155	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R155	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R155	
BLOCK- 52							13311 kg			
2@ BLOCK- 52							26622 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 53

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 22	9995	172.7	5076	5076	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A	C48	

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	100* 9	172	70.65	1.22	2	SM400A	C48
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C48
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C48
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C48
2		PL	200* 9	1526	70.65	21.6	43	SM400A	C48
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C48
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C48
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C48
2		PL	100* 9	172	70.65	1.22	2	SM400A	C48
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C48
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R156,R157
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R156,R157
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R156,R157
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R156,R157
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R156,R157
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R156,R157
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R156,R157
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R156,R157
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R158
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R158
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R158
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R158
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R158
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R158
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R158
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R158
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R158
BLOCK- 53								14234 kg	
2@ BLOCK- 53								28468 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 54

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 22	7495	172.7	3806	3806	SM490YB		
3	RIB	PL	220* 19	7496	149.2	246	738	SM490YB		
1	LWEB	PL	2747* 11	7503	86.35	1780	1780	SM490YA		
1	RWEB	PL	2801* 11	7503	86.35	1815	1815	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
2	VSTFL	PL	170* 16	2716	125.6	58.0	116	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
2	VSTFR	PL	170* 16	2766	125.6	59.1	118	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C49
2		PL	100* 9	172	70.65	1.22	2	SM400A		C49
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C49
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C49
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C49
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C49
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C49
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C49
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C49
2		PL	100* 9	172	70.65	1.22	2	SM400A		C49
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C49
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R159,R160
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R159,R160
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R159,R160
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R159,R160
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R159,R160
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R159,R160
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R159,R160
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R159,R160
							BLOCK- 54		10451 kg	
							2@ BLOCK- 54		20902 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 55

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 22	9995	172.7	5076	5076	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C50
2		PL	100* 9	172	70.65	1.22	2	SM400A		C50
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C50
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C50
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C50
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C50
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C50
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C50
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C50
2		PL	100* 9	172	70.65	1.22	2	SM400A		C50
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C50
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R161
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R161
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R161
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R161
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R161
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R161
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R161
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R161
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R161
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R162,R163
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R162,R163
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R162,R163
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R162,R163
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R162,R163
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R162,R163
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R162,R163
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R162,R163

## Calculation of Steel Weight

(Unit ; mm,kg)

BLOCK- 55	14230 kg
2@ BLOCK- 55	28460 kg

Calculation Weight Main Girder G-2,3 BLOCK- 56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 18	9995	141.3	4153	4153	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C51
2		PL	100* 9	172	70.65	1.22	2	SM400A		C51
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C51
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C51
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C51
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C51
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C51
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C51
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C51
2		PL	100* 9	172	70.65	1.22	2	SM400A		C51
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C51
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R164
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R164
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R164
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R164
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R164
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R164

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R164	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R164	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R164	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R165,R166	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R165,R166	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R165,R166	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R165,R166	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R165,R166	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R165,R166	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R165,R166	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R165,R166	
BLOCK- 56							13309 kg			
2@ BLOCK- 56							26618 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 57

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 18	9995	141.3	4153	4153	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
5	HSTFL	PL	160* 16	1180	125.6	23.7	118	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
5	HSTFR	PL	160* 16	1180	125.6	23.7	118	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	VSTFL	PL	170* 16	2716	125.6	58.0	58	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
2	VSTFL	PL	170* 16	2751	125.6	58.7	117	SM400A		
1	VSTFR	PL	170* 16	2766	125.6	59.1	59	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFR	PL	170* 16	2801	125.6	59.8	120	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C52
2		PL	100* 9	172	70.65	1.22	2	SM400A		C52
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C52
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C52
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C52
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C52
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C52
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C52
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C52
2		PL	100* 9	172	70.65	1.22	2	SM400A		C52
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C52
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R167
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R167
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R167
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R167
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R167
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R167
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R167
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R167
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R167
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R168,R169
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R168,R169
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R168,R169
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R168,R169
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R168,R169
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R168,R169
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R168,R169
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R168,R169
BLOCK- 57							13598 kg			
2@ BLOCK- 57							27196 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 58

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 21	9245	164.8	4479	4479	SM490YB		
3	RIB	PL	220* 19	9246	149.2	303	909	SM490YB		
4	RIB	PL	220* 19	994	149.2	32.6	130	SM570		
1	LWEB	PL	2747* 11	9253	86.35	2195	2195	SM490YA		
1	RWEB	PL	2801* 11	9253	86.35	2238	2238	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C53
2		PL	100* 9	172	70.65	1.22	2	SM400A		C53
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C53
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C53
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C53
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C53
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C53
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C53
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C53
2		PL	100* 9	172	70.65	1.22	2	SM400A		C53
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C53
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R170
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R170
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R170
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R170
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R170
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R170
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R170
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R170
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R170
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R171,R172
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R171,R172
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R171,R172
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R171,R172
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R171,R172

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R171,R172	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R171,R172	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R171,R172	
BLOCK- 58							13276 kg				
2@ BLOCK- 58							26552 kg				

## Calculation Weight Main Girder G-2,3 BLOCK- 59

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 28	9995	219.8	6460	6460	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		
1	LWEB	PL	2743* 11	10003	86.35	2369	2369	SM570		
1	RWEB	PL	2797* 11	10003	86.35	2416	2416	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	2747	125.6	58.7	235	SM400A		
2	VSTFL	PL	170* 16	1476	125.6	31.5	63	SM400A		
4	VSTFR	PL	170* 16	2797	125.6	59.7	239	SM400A		
2	VSTFR	PL	170* 16	1527	125.6	32.6	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C54
2		PL	100* 9	172	70.65	1.22	2	SM400A		C54
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C54
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C54
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C54
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C54
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C54
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C54
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C54
2		PL	100* 9	172	70.65	1.22	2	SM400A		C54
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C54
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R173,R176
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R173,R176

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	DIA	PL	2801* 9	2980	70.65	590	1180	SM400A		R173,R176
4		PL	200* 9	1494	70.65	21.1	84	SM400A		R173,R176
4		PL	200* 9	1515	70.65	21.4	86	SM400A		R173,R176
4		PL	100* 10	2690	78.50	21.1	84	SM400A		R173,R176
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R173,R176
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R173,R176
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R173,R176
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R174,R175
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R174,R175
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R174,R175
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R174,R175
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R174,R175
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R174,R175
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R174,R175
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R174,R175
								BLOCK- 59		17795 kg
								2@ BLOCK- 59		35590 kg

## Calculation Weight Main Girder G-2,3 BLOCK- 60

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 28	5995	219.8	3875	3875	SM570		
4	RIB	PL	220* 19	5996	149.2	197	788	SM570		
4	RIB	PL	220* 19	2498	149.2	82.0	328	SM570		
2	RIB	PL	220* 19	2718	149.2	89.2	178	SM570		
1	LWEB	PL	2743* 11	6003	86.35	1422	1422	SM570		
1	RWEB	PL	2797* 11	6003	86.35	1450	1450	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
4	HSTFL	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	HSTFR	PL	160* 16	930	125.6	18.7	75	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	VSTFL	PL	170* 16	2747	125.6	58.7	117	SM400A		
2	VSTFL	PL	170* 16	1476	125.6	31.5	63	SM400A		
2	VSTFR	PL	170* 16	2797	125.6	59.7	119	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	VSTFR	PL	170* 16	1527	125.6	32.6	65	SM400A		
1	SOLE	PL	1340* 40	970	314.0	408	408	SM490B		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		P18
2		PL	100* 9	170	70.65	1.20	2	SM400A		P18
1	FLG	PL	250* 12	170	94.20	4.00	4	SM400A		P18
1	DIA	PL	2797* 19	2690	149.2	1123	1123	SM400A		P18
2	VSTFF	PL	240* 27	2400	212.0	122	244	SM400A		P18
4		PL	100* 9	1132	70.65	8.00	32	SM400A		P18
2		PL	100* 9	373	70.65	2.64	5	SM400A		P18
4		PL	130* 12	1132	94.20	13.9	56	SM400A		P18
2		PL	130* 12	373	94.20	4.57	9	SM400A		P18
1	WEB	PL	2301* 9	172	70.65	28.0	28	SM400A		P18
2		PL	100* 9	170	70.65	1.20	2	SM400A		P18
1	FLG	PL	250* 12	170	94.20	4.00	4	SM400A		P18
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R177,R178
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R177,R178
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R177,R178
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R177,R178
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R177,R178
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R177,R178
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R177,R178
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R177,R178
BLOCK- 60								11405 kg		
2@ BLOCK- 60								22810 kg		

## Calculation Weight Main Girder G-2,3 BLOCK- 61

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 28	9995	219.8	6460	6460	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		
1	LWEB	PL	2743* 11	10003	86.35	2369	2369	SM570		
1	RWEB	PL	2797* 11	10003	86.35	2416	2416	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		



## Caluculation of Steel Weight

(Unit ; mm,kg)

8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	2747	125.6	58.7	235	SM400A		
2	VSTFL	PL	170* 16	1476	125.6	31.5	63	SM400A		
4	VSTFR	PL	170* 16	2797	125.6	59.7	239	SM400A		
2	VSTFR	PL	170* 16	1527	125.6	32.6	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C55
2		PL	100* 9	172	70.65	1.22	2	SM400A		C55
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C55
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C55
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C55
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C55
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C55
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C55
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C55
2		PL	100* 9	172	70.65	1.22	2	SM400A		C55
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C55
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R179,R182
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R179,R182
2	DIA	PL	2801* 9	2980	70.65	590	1180	SM400A		R179,R182
4		PL	200* 9	1494	70.65	21.1	84	SM400A		R179,R182
4		PL	200* 9	1515	70.65	21.4	86	SM400A		R179,R182
4		PL	100* 10	2690	78.50	21.1	84	SM400A		R179,R182
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R179,R182
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R179,R182
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R179,R182
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R180,R181
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R180,R181
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R180,R181
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R180,R181
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R180,R181
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R180,R181
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R180,R181
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R180,R181
							BLOCK- 61	17793 kg		
							2@ BLOCK- 61	35586 kg		

## Calculation Weight Main Girder G-2,3 BLOCK- 62

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 20	9245	157.0	4267	4267	SM570		
4	RIB	PL	220* 19	994	149.2	32.6	130	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	RIB	PL	220* 19	9246	149.2	303	909	SM570		
1	LWEB	PL	2747* 11	9253	86.35	2195	2195	SM570		
1	RWEB	PL	2801* 11	9253	86.35	2238	2238	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C56
2		PL	100* 9	172	70.65	1.22	2	SM400A		C56
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C56
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C56
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C56
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C56
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C56
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C56
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C56
2		PL	100* 9	172	70.65	1.22	2	SM400A		C56
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C56
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R183,R184
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R183,R184
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R183,R184
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R183,R184
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R183,R184
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R183,R184
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R183,R184
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R183,R184
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R185

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R185	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R185	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R185	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R185	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R185	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R185	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R185	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R185	
BLOCK- 62							13062 kg			
2@ BLOCK- 62							26124 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 63

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 15	9995	117.8	3462	3462	SM490YA		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A	C57
2		PL	100* 9	172	70.65	1.22	2	SM400A	C57
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C57
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C57
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C57
2		PL	200* 9	1526	70.65	21.6	43	SM400A	C57
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C57
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C57
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C57
2		PL	100* 9	172	70.65	1.22	2	SM400A	C57
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C57
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R186,R187
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R186,R187
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R186,R187
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R186,R187
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R186,R187
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R186,R187
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R186,R187
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R186,R187
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R188
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R188
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R188
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R188
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R188
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R188
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R188
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R188
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R188
BLOCK- 63								12796 kg	
2@ BLOCK- 63								25592 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 64

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 15	9995	117.8	3462	3462	SM490YA		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C58
2		PL	100* 9	172	70.65	1.22	2	SM400A		C58
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C58
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C58
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C58
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C58
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C58
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C58
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C58
2		PL	100* 9	172	70.65	1.22	2	SM400A		C58
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C58
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R189,R190
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R189,R190
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R189,R190
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R189,R190
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R189,R190
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R189,R190
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R189,R190
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R189,R190
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R191
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R191
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R191
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R191
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R191
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R191
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R191
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R191

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R191	
BLOCK- 64							12692 kg			
2@ BLOCK- 64							25384 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 65

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 19	9995	149.2	4385	4385	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C59
2		PL	100* 9	172	70.65	1.22	2	SM400A		C59
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C59
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C59
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C59
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C59
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C59
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C59
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C59
2		PL	100* 9	172	70.65	1.22	2	SM400A		C59
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C59
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R192,R193
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R192,R193
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R192,R193
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R192,R193

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R192,R193
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R192,R193
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R192,R193
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R192,R193
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R194
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R194
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R194
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R194
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R194
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R194
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R194
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R194
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R194
BLOCK- 65							13535 kg			
2@ BLOCK- 65							27070 kg			

Calculation Weight Main Girder G-2,3 BLOCK- 66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 19	7495	149.2	3288	3288	SM490YB		
3	RIB	PL	220* 19	7496	149.2	246	738	SM490YB		
1	LWEB	PL	2747* 11	7503	86.35	1780	1780	SM490YA		
1	RWEB	PL	2801* 11	7503	86.35	1815	1815	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
2	VSTFL	PL	170* 16	2716	125.6	58.0	116	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
2	VSTFR	PL	170* 16	2766	125.6	59.1	118	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C60
2		PL	100* 9	172	70.65	1.22	2	SM400A		C60
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C60

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C60
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C60
2		PL	200* 9	1526	70.65	21.6	43	SM400A	C60
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C60
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C60
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C60
2		PL	100* 9	172	70.65	1.22	2	SM400A	C66
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C60
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R195,R196
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R195,R196
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R195,R196
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R195,R196
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R195,R196
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R195,R196
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R195,R196
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R195,R196
BLOCK- 66								9927 kg	
2@ BLOCK- 66								19854 kg	

Calculation Weight Main Girder G-2,3 BLOCK- 67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 19	9995	149.2	4385	4385	SM490YB		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A	C61		
2		PL	100* 9	172	70.65	1.22	2	SM400A	C61		
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C61		
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C61		
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C61		
2		PL	200* 9	1526	70.65	21.6	43	SM400A	C61		
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C61		
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C61		
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C61		
2		PL	100* 9	172	70.65	1.22	2	SM400A	C61		
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C61		
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R197		
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R197		
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R197		
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R197		
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R197		
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R197		
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R197		
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R197		
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R197		
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R198,R199		
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R198,R199		
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R198,R199		
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R198,R199		
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R198,R199		
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R198,R199		
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R198,R199		
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R198,R199		
							BLOCK- 67				13539 kg
							2@ BLOCK- 67				27078 kg

## Calculation Weight Main Girder G-2,3 BLOCK- 68

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 15	9995	117.8	3462	3462	SM490YA		
3	RIB	PL	220* 19	9996	149.2	328	984	SM490YB		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM490YA		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	1180	125.6	23.7	24	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C62
2		PL	100* 9	172	70.65	1.22	2	SM400A		C62
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C62
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C62
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C62
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C62
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C62
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C62
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C62
2		PL	100* 9	172	70.65	1.22	2	SM400A		C62
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C62
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R200
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R200
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R200
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R200
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R200
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R200
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R200
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R200
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R200
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R201,R202
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R201,R202
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R201,R202

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R201,R202	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R201,R202	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R201,R202	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R201,R202	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R201,R202	
BLOCK- 68							12792 kg				
2@ BLOCK- 68							25584 kg				

## Calculation Weight Main Girder G-2,3 BLOCK- 69

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 17	9995	133.4	3921	3921	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM570		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C63
2		PL	100* 9	172	70.65	1.22	2	SM400A		C63
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C63
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C63
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C63
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C63
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C63

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	130* 9	2690	70.65	24.7	49	SM400A	C63	
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C63	
2		PL	100* 9	172	70.65	1.22	2	SM400A	C63	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C63	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R203	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R203	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R203	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R203	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R203	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R203	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R203	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R203	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R203	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R204,R205	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R204,R205	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R204,R205	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R204,R205	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R204,R205	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R204,R205	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R204,R205	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R204,R205	
BLOCK- 69							13157 kg			
2@ BLOCK- 69							26314 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 70

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 24	9245	188.4	5121	5121	SM570		
3	RIB	PL	220* 19	9246	149.2	303	909	SM570		
4	RIB	PL	220* 19	994	149.2	32.6	130	SM570		
1	LWEB	PL	2747* 11	9253	86.35	2195	2195	SM570		
1	RWEB	PL	2801* 11	9253	86.35	2238	2238	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
1	HSTFR	PL	160* 16	700	125.6	14.1	14	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C64
2		PL	100* 9	172	70.65	1.22	2	SM400A		C64
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C64
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C64
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C64
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C64
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C64
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C64
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C64
2		PL	100* 9	172	70.65	1.22	2	SM400A		C64
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C64
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R206
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R206
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R206
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R206
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R206
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R206
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R206
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R206
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R206
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R207,R208
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R207,R208
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R207,R208
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R207,R208
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R207,R208
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R207,R208
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R207,R208
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R207,R208
								BLOCK- 70	13918 kg	
								2@ BLOCK- 70	27836 kg	

Calculation Weight Main Girder G-2,3 BLOCK- 71

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 34	9995	266.9	7844	7844	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		
1	LWEB	PL	2738* 11	10003	86.35	2365	2365	SM570		
1	RWEB	PL	2792* 11	10003	86.35	2412	2412	SM570		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM400A		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFL	PL	160* 16	700	125.6	14.1	14	SM490YA		
8	HSTFL	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
8	HSTFR	PL	160* 16	930	125.6	18.7	150	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
4	VSTFL	PL	170* 16	2742	125.6	58.5	234	SM400A		
2	VSTFL	PL	170* 16	1471	125.6	31.4	63	SM400A		
4	VSTFR	PL	170* 16	2792	125.6	59.6	238	SM400A		
2	VSTFR	PL	170* 16	1522	125.6	32.5	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C65
2		PL	100* 9	172	70.65	1.22	2	SM400A		C65
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C65
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C65
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C65
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C65
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C65
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C65
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C65
2		PL	100* 9	172	70.65	1.22	2	SM400A		C65
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C65
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R209,R212
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R209,R212
2	DIA	PL	2801* 9	2980	70.65	590	1180	SM400A		R209,R212
4		PL	200* 9	1494	70.65	21.1	84	SM400A		R209,R212
4		PL	200* 9	1515	70.65	21.4	86	SM400A		R209,R212
4		PL	100* 10	2690	78.50	21.1	84	SM400A		R209,R212
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R209,R212
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R209,R212
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R209,R212
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R210,R211

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R210,R211
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R210,R211
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R210,R211
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R210,R211
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R210,R211
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R210,R211
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R210,R211
BLOCK- 71							19165 kg			
2@ BLOCK- 71							38330 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 72

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 34	6745	266.9	5293	5293	SM570		
4	RIB	PL	240* 19	6746	149.2	242	968	SM570		
2	RIB	PL	240* 19	2498	149.2	89.4	179	SM570		
1	RIB	PL	240* 19	2688	149.2	96.2	96	SM570		
2	RIB	PL	240* 19	3248	149.2	116	232	SM570		
1	RIB	PL	240* 19	3438	149.2	123	123	SM570		
1	LWEB	PL	2738* 11	6753	86.35	1597	1597	SM570		
1	RWEB	PL	2792* 11	6753	86.35	1628	1628	SM570		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM400A		
2	HSTFL	PL	160* 16	1180	125.6	23.7	47	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFL	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFL	PL	160* 16	930	125.6	18.7	37	SM490YA		
2	HSTFL	PL	160* 16	1180	125.6	23.7	47	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM400A		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM400A		
2	HSTFR	PL	160* 16	1180	125.6	23.7	47	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	625	125.6	12.6	13	SM490YA		
2	HSTFR	PL	160* 16	930	125.6	18.7	37	SM490YA		
2	HSTFR	PL	160* 16	1180	125.6	23.7	47	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
2	VSTFL	PL	170* 16	2742	125.6	58.5	117	SM400A		
2	VSTFL	PL	170* 16	1471	125.6	31.4	63	SM400A		
2	VSTFR	PL	170* 16	2792	125.6	59.6	119	SM400A		
2	VSTFR	PL	170* 16	1522	125.6	32.5	65	SM400A		
1	SOLE	PL	1340* 45	970	353.2	459	459	SM490C		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	2238* 9	170	70.65	26.9	27	SM400A	P19
2		PL	100* 9	170	70.65	1.20	2	SM400A	P19
1	FLG	PL	250* 12	170	94.20	4.00	4	SM400A	P19
1	DIA	PL	2792* 19	2690	149.2	1120	1120	SM400A	P19
2	VSTFF	PL	270* 30	2400	235.5	153	306	SM400A	P19
4		PL	100* 9	1130	70.65	7.98	32	SM400A	P19
2		PL	100* 9	370	70.65	2.61	5	SM400A	P19
4		PL	130* 12	1130	94.20	13.8	55	SM400A	P19
2		PL	130* 12	370	94.20	4.53	9	SM400A	P19
1	WEB	PL	2296* 9	170	70.65	27.6	28	SM400A	P19
2		PL	100* 9	172	70.65	1.22	2	SM400A	P19
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	P19
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R213,R214
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R213,R214
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R213,R214
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R213,R214
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R213,R214
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R213,R214
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R213,R214
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R213,R214
BLOCK- 72								13641 kg	
2@ BLOCK- 72								27282 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 73

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 32	9995	251.2	7383	7383	SM570		
7	RIB	PL	220* 19	9996	149.2	328	2296	SM570		
1	LWEB	PL	2738* 11	10003	86.35	2365	2365	SM570		
1	RWEB	PL	2792* 11	10003	86.35	2412	2412	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		



## Caluculation of Steel Weight

(Unit ; mm,kg)

3	VSTFL	PL	170* 16	2742	125.6	58.5	176	SM400A			
2	VSTFL	PL	170* 16	1471	125.6	31.4	63	SM400A			
3	VSTFR	PL	170* 16	2792	125.6	59.6	179	SM400A			
2	VSTFR	PL	170* 16	1522	125.6	32.5	65	SM400A			
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C66	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C66	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C66	
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C66	
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C66	
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C66	
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C66	
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C66	
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C66	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C66	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C66	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R215	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R215	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R215	
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R215	
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R215	
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R215	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R215	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R215	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R215	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R216,R217	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R216,R217	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R216,R217	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R216,R217	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R216,R217	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R216,R217	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R216,R217	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R216,R217	
								BLOCK- 73			17835 kg
								2@ BLOCK- 73			35670 kg

## Calculation Weight Main Girder G-2,3 BLOCK- 74

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 22	9995	172.7	5076	5076	SM570		
4	RIB	PL	220* 19	1244	149.2	40.8	163	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	VSTFL	PL	170* 16	2751	125.6	58.7	176	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2801	125.6	59.8	179	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C67
2		PL	100* 9	172	70.65	1.22	2	SM400A		C67
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C67
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C67
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C67
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C67
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C67
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C67
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C67
2		PL	100* 9	172	70.65	1.22	2	SM400A		C67
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C67
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R218
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R218
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R218
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R218
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R218
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R218
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R218
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R218
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R218
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R219,R220
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R219,R220
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R219,R220
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R219,R220
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R219,R220
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R219,R220

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R219,R220
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R219,R220
BLOCK- 74								14397 kg		
2@ BLOCK- 74								28794 kg		

## Calculation Weight Main Girder G-2,3 BLOCK- 75

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 18	9995	141.3	4153	4153	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM570		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM570		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
3	HSTFL	PL	160* 16	1180	125.6	23.7	71	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
3	HSTFR	PL	160* 16	1180	125.6	23.7	71	SM490YA		
1	VSTFL	PL	170* 16	2751	125.6	58.7	59	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
2	VSTFL	PL	170* 16	2716	125.6	58.0	116	SM400A		
1	VSTFR	PL	170* 16	2801	125.6	59.8	60	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
2	VSTFR	PL	170* 16	2766	125.6	59.1	118	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C68
2		PL	100* 9	172	70.65	1.22	2	SM400A		C68
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C68
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C68
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C68
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C68
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C68
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C68

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C68
2		PL	100* 9	172	70.65	1.22	2	SM400A	C68
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C68
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R221
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R221
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R221
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R221
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R221
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R221
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R221
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R221
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R221
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R222,R223
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R222,R223
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R222,R223
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R222,R223
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R222,R223
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R222,R223
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R222,R223
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R222,R223
BLOCK- 75								13595 kg	
2@ BLOCK- 75								27190 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 76

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 18	9995	141.3	4153	4153	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM570		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		

## Caluculation of Steel Weight

(Unit ; mm,kg)

3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C69
2		PL	100* 9	172	70.65	1.22	2	SM400A		C69
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C69
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C69
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C69
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C69
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C69
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C69
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C69
2		PL	100* 9	172	70.65	1.22	2	SM400A		C69
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C69
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R224
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R224
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R224
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R224
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R224
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R224
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R224
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R224
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R224
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R225,R226
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R225,R226
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R225,R226
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R225,R226
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R225,R226
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R225,R226
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R225,R226
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R225,R226
								BLOCK- 76		13309 kg
								2@ BLOCK- 76		26618 kg

## Calculation Weight Main Girder G-2,3 BLOCK- 77

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 23	9995	180.6	5308	5308	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		
1	LWEB	PL	2747* 11	10003	86.35	2373	2373	SM570		
1	RWEB	PL	2801* 11	10003	86.35	2420	2420	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C70
2		PL	100* 9	172	70.65	1.22	2	SM400A		C70
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C70
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C70
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C70
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C70
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C70
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C70
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C70
2		PL	100* 9	172	70.65	1.22	2	SM400A		C70
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C70
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R227
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R227
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R227
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R227
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R227
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R227
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R227
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R227
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R227
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R228,R229
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R228,R229
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R228,R229
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R228,R229
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R228,R229
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R228,R229
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R228,R229

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R228,R229	
BLOCK- 77							14462 kg			
2@ BLOCK- 77							28924 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 78

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 23	9995	180.6	5308	5308	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		
1	LWEB	PL	2748* 11	10004	86.35	2374	2374	SM570		
1	RWEB	PL	2802* 11	10004	86.35	2420	2420	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C71
2		PL	100* 9	172	70.65	1.22	2	SM400A		C71
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C71
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C71
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C71
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C71
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C71
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C71
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C71
2		PL	100* 9	172	70.65	1.22	2	SM400A		C71
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C71
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R230
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R230
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R230
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R230

## Caluculation of Steel Weight

(Unit ; mm,kg)

2		PL	200* 9	1515	70.65	21.4	43	SM400A	R230
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R230
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R230
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R230
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R230
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R231,R232
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R231,R232
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R231,R232
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R231,R232
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R231,R232
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R231,R232
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R231,R232
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R231,R232
BLOCK- 78								14463 kg	
2@ BLOCK- 78								28926 kg	

Calculation Weight Main Girder G-2,3 BLOCK- 79										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 23	9995	180.6	5308	5308	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		
1	LWEB	PL	2748* 11	10007	86.35	2375	2375	SM570		
1	RWEB	PL	2802* 11	10007	86.35	2421	2421	SM570		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
1	HSTFR	PL	160* 16	975	125.6	19.6	20	SM490YA		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A		
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C72
2		PL	100* 9	172	70.65	1.22	2	SM400A		C72
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C72



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A	C72
2		PL	200* 9	1505	70.65	21.3	43	SM400A	C72
2		PL	200* 9	1526	70.65	21.6	43	SM400A	C72
2		PL	100* 9	2690	70.65	19.0	38	SM400A	C72
2		PL	130* 9	2690	70.65	24.7	49	SM400A	C72
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A	C72
2		PL	100* 9	172	70.65	1.22	2	SM400A	C72
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A	C72
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R233
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R233
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R233
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R233
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R233
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R233
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R233
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R233
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R233
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R234,R235
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R234,R235
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A	R234,R235
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A	R234,R235
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A	R234,R235
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A	R234,R235
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A	R234,R235
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A	R234,R235
BLOCK- 79								14465 kg	
2@ BLOCK- 79								28930 kg	

## Calculation Weight Main Girder G-2,3 BLOCK- 80

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 20	9995	157.0	4614	4614	SM570		
3	RIB	PL	220* 19	9996	149.2	328	984	SM570		
1	LWEB	PL	2748* 11	10011	86.35	2375	2375	SM570		
1	RWEB	PL	2802* 11	10011	86.35	2422	2422	SM570		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM490YA		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
1	HSTFL	PL	160* 16	875	125.6	17.6	18	SM400A		
6	HSTFL	PL	160* 16	1180	125.6	23.7	142	SM400A		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM490YA			
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA			
1	HSTFR	PL	160* 16	875	125.6	17.6	18	SM400A			
6	HSTFR	PL	160* 16	1180	125.6	23.7	142	SM400A			
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A			
3	VSTFL	PL	170* 16	2716	125.6	58.0	174	SM400A			
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A			
3	VSTFR	PL	170* 16	2766	125.6	59.1	177	SM400A			
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A			
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C73	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C73	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C73	
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C73	
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C73	
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C73	
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C73	
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C73	
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C73	
2		PL	100* 9	172	70.65	1.22	2	SM400A		C73	
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C73	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R236	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R236	
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R236	
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R236	
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R236	
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R236	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R236	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R236	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R236	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R237,R238	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R237,R238	
2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R237,R238	
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R237,R238	
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R237,R238	
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R237,R238	
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R237,R238	
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R237,R238	
								BLOCK- 80			13772 kg
								2@ BLOCK- 80			27544 kg

Calculation Weight Main Girder G-2,3 BLOCK- 81

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 20	11158	157.0	5150	5150	SM490YB		
3	RIB	PL	220* 19	11159	149.2	366	1098	SM490YB		
1	LWEB	PL	2749* 11	11176	86.35	2653	2653	SM490YA		
1	RWEB	PL	2803* 11	11177	86.35	2705	2705	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM490YA		
4	HSTFL	PL	160* 16	1020	125.6	20.5	82	SM490YA		
1	HSTFL	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFL	PL	160* 16	1180	125.6	23.7	95	SM400A		
4	HSTFL	PL	160* 16	1020	125.6	20.5	82	SM400A		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM490YA		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM490YA		
4	HSTFR	PL	160* 16	1020	125.6	20.5	82	SM490YA		
1	HSTFR	PL	160* 16	950	125.6	19.1	19	SM400A		
4	HSTFR	PL	160* 16	1180	125.6	23.7	95	SM400A		
4	HSTFR	PL	160* 16	1020	125.6	20.5	82	SM400A		
4	VSTFL	PL	170* 16	2716	125.6	58.0	232	SM400A		
2	VSTFL	PL	170* 16	1480	125.6	31.6	63	SM400A		
4	VSTFR	PL	170* 16	2766	125.6	59.1	236	SM400A		
2	VSTFR	PL	170* 16	1531	125.6	32.7	65	SM400A		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		C74
2		PL	100* 9	172	70.65	1.22	2	SM400A		C74
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C74
1	DIA	PL	2801* 9	2690	70.65	532	532	SM400A		C74
2		PL	200* 9	1505	70.65	21.3	43	SM400A		C74
2		PL	200* 9	1526	70.65	21.6	43	SM400A		C74
2		PL	100* 9	2690	70.65	19.0	38	SM400A		C74
2		PL	130* 9	2690	70.65	24.7	49	SM400A		C74
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		C74
2		PL	100* 9	172	70.65	1.22	2	SM400A		C74
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		C74
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R239
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R239
1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A		R239
2		PL	200* 9	1494	70.65	21.1	42	SM400A		R239
2		PL	200* 9	1515	70.65	21.4	43	SM400A		R239
2		PL	100* 10	2690	78.50	21.1	42	SM400A		R239
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A		R239
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R239
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R239
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R240,R241
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R240,R241

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WEB	PL	750* 9	2706	70.65	143	286	SM400A		R240,R241
2	FLG	PL	200* 10	2690	78.50	42.2	84	SM400A		R240,R241
2	WEB	PL	500* 9	2690	70.65	95.0	190	SM400A		R240,R241
2	FLG	PL	100* 10	2690	78.50	21.1	42	SM400A		R240,R241
2	WEB	PL	172* 9	753	70.65	9.15	18	SM400A		R240,R241
2	FLG	PL	200* 10	172	78.50	2.70	5	SM400A		R240,R241
BLOCK- 81							15168 kg			
2@ BLOCK- 81							30336 kg			

## Calculation Weight Main Girder G-2,3 BLOCK- 82

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	LFLG	PL	2940* 13	8885	102.0	2664	2664	SM490YA		
2	RIB	PL	220* 19	8179	149.2	268	536	SM490YB		
1	RIB	PL	220* 19	7919	149.2	260	260	SM490YB		
2	RIB	PL	220* 19	680	149.2	22.3	45	SM490YB		
1	RIB	PL	220* 19	420	149.2	13.8	14	SM490YB		
1	LWEB	PL	2747* 11	8906	86.35	2112	2112	SM490YA		
1	RWEB	PL	2801* 11	8907	86.35	2154	2154	SM490YA		
7	HSTFL	PL	160* 16	1020	125.6	20.5	144	SM490YA		
7	HSTFL	PL	160* 16	1020	125.6	20.5	144	SM400A		
7	HSTFR	PL	160* 16	1020	125.6	20.5	144	SM490YA		
7	HSTFR	PL	160* 16	1020	125.6	20.5	144	SM400A		
4	VSTFL	PL	170* 16	2716	125.6	58.0	232	SM400A		
1	VSTFL	PL	170* 16	1480	125.6	31.6	32	SM400A		
4	VSTFR	PL	170* 16	2766	125.6	59.1	236	SM400A		
1	VSTFR	PL	170* 16	1531	125.6	32.7	33	SM400A		
1	SOLE	PL	970* 32	870	251.2	212	212	SM490B		
1	WEB	PL	2243* 9	172	70.65	27.3	27	SM400A		P20
2		PL	100* 9	172	70.65	1.22	2	SM400A		P20
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		P20
1	DIA	PL	2801* 11	2690	86.35	651	651	SM400A		P20
2	VSTFF	PL	230* 22	2400	172.7	95.3	191	SM400A		P20
4		PL	100* 9	1229	70.65	8.68	35	SM400A		P20
2		PL	100* 9	188	70.65	1.33	3	SM400A		P20
4		PL	130* 12	1229	94.20	15.1	60	SM400A		P20
2		PL	130* 12	188	94.20	2.30	5	SM400A		P20
1	WEB	PL	2305* 9	172	70.65	28.0	28	SM400A		P20
2		PL	100* 9	172	70.65	1.22	2	SM400A		P20
1	FLG	PL	250* 12	172	94.20	4.05	4	SM400A		P20
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A		R242
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A		R242

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	DIA	PL	2801* 9	2980	70.65	590	590	SM400A	R242	
2		PL	200* 9	1494	70.65	21.1	42	SM400A	R242	
2		PL	200* 9	1515	70.65	21.4	43	SM400A	R242	
2		PL	100* 10	2690	78.50	21.1	42	SM400A	R242	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R242	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R242	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R242	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R243	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R243	
1	WEB	PL	750* 9	2706	70.65	143	143	SM400A	R243	
1	FLG	PL	200* 10	2690	78.50	42.2	42	SM400A	R243	
1	WEB	PL	500* 9	2690	70.65	95.0	95	SM400A	R243	
1	FLG	PL	100* 10	2690	78.50	21.1	21	SM400A	R243	
1	WEB	PL	172* 9	753	70.65	9.15	9	SM400A	R243	
1	FLG	PL	200* 10	172	78.50	2.70	3	SM400A	R243	
BLOCK- 82							11205 kg			
2@ BLOCK- 82							22410 kg			
G-2,3							2289094 kg			

## Calculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G02J G02-J01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 6	158	47.10	21.8	22	SS400		
120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 12	480	94.20	7.23	43	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPL	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
							G02-J01	793 kg		
							2@ G02-J01	1586 kg		

Calculation Weight Main Girder G02J G02-J02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 10	620	78.50	143	143	SM490YA		
1	FSPL	PL	80* 11	620	86.35	4.28	4	SM490YA		
4	FSPL	PL	620* 11	620	86.35	33.2	133	SM490YA		
1	FSPL	PL	80* 11	620	86.35	4.28	4	SM490YA		
1	FILL	PL	2930* 8	308	62.80	56.7	57	SS400		
240	FSPL	TCB	M 22* 85			0.568	136	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPL	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
							G02-J02	1088 kg		
							2@ G02-J02	2176 kg		

Calculation Weight Main Girder G02J G02-J03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 14	920	109.9	296	296	SM570		
1	FSPL	PL	80* 16	920	125.6	9.24	9	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

4	FSPL	PL	620* 16	920	125.6	71.6	286	SM570		
1	FSPL	PL	80* 16	920	125.6	9.24	9	SM570		
1	FILL	PL	2930* 4	458	31.40	42.1	42	SS400		
360	FSPL	TCB	M 22* 100			0.613	221	S10T		
6	RSPL	PL	160* 15	780	117.8	14.7	88	SM570		
60	RSPL	TCB	M 22* 85			0.568	34	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J03							1502 kg			
2@ G02-J03							3004 kg			

Calculation Weight Main Girder G02J G02-J04										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 16	920	125.6	339	339	SM570		
1	FSPL	PL	80* 18	920	141.3	10.4	10	SM570		
4	FSPL	PL	620* 18	920	141.3	80.6	322	SM570		
1	FSPL	PL	80* 18	920	141.3	10.4	10	SM570		
360	FSPL	TCB	M 22* 105			0.628	226	S10T		
6	RSPL	PL	160* 15	780	117.8	14.7	88	SM570		
60	RSPL	TCB	M 22* 85			0.568	34	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J04							1546 kg			
2@ G02-J04							3092 kg			

Calculation Weight Main Girder G02J G02-J05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 16	920	125.6	339	339	SM570		
1	FSPL	PL	80* 18	920	141.3	10.4	10	SM570		
4	FSPL	PL	620* 18	920	141.3	80.6	322	SM570		
360	FSPL	TCB	M 22* 105			0.628	226	S10T		
6	RSPL	PL	160* 15	780	117.8	14.7	88	SM570		
60	RSPL	TCB	M 22* 85			0.568	34	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
G02-J05							1536 kg			
2@ G02-J05							3072 kg			

## Calculation Weight Main Girder G02J G02-J06

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 14	770	109.9	248	248	SM570		
1	FSPL	PL	80* 15	770	117.8	7.26	7	SM570		
4	FSPL	PL	620* 15	770	117.8	56.2	225	SM570		
1	FSPL	PL	80* 15	770	117.8	7.26	7	SM570		
1	FILL	PL	2930* 6	383	47.10	52.8	53	SS400		
300	FSPL	TCB	M 22* 100			0.613	184	S10T		
6	RSPL	PL	160* 15	780	117.8	14.7	88	SM570		
60	RSPL	TCB	M 22* 85			0.568	34	S10T		
2	WSPL	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPL	TCB	M 22* 65			0.508	110	S10T		
G02-J06							1447 kg			
2@ G02-J06							2894 kg			

## Calculation Weight Main Girder G02J G02-J07

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	620	70.65	128	128	SM570		
1	FSPL	PL	80* 10	620	78.50	3.89	4	SM570		
4	FSPL	PL	620* 10	620	78.50	30.2	121	SM570		
1	FSPL	PL	80* 10	620	78.50	3.89	4	SM570		
1	FILL	PL	2930* 8	308	62.80	56.7	57	SS400		
240	FSPL	TCB	M 22* 80			0.553	133	S10T		
6	RSPL	PL	160* 15	780	117.8	14.7	88	SM570		
60	RSPL	TCB	M 22* 85			0.568	34	S10T		
2	WSPL	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPL	TCB	M 22* 65			0.508	110	S10T		
G02-J07							1170 kg			
2@ G02-J07							2340 kg			



## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G02J G02-J08										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J08	768 kg		
							2@ G02-J08	1536 kg		

Calculation Weight Main Girder G02J G02-J09										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
8	FSPL	PL	280* 9	470	70.65	9.30	74	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	2930* 8	233	62.80	42.9	43	SS400		
156	FSPL	TCB	M 22* 80			0.553	86	S10T		
14	RSPL	PL	160* 11	480	86.35	6.63	93	SM490YA		
84	RSPL	TCB	M 22* 80			0.553	46	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
1	FILL	PL	2640* 2.3	233	18.06	11.1	11	SS400		
162	WSPLI	TCB	M 22* 70			0.523	85	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
1	FILL	PL	2680* 2.3	233	18.06	11.3	11	SS400		
162	WSPLI	TCB	M 22* 70			0.523	85	S10T		
							G02-J09	990 kg		
							2@ G02-J09	1980 kg		

Calculation Weight Main Girder G02J G02-J10										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	2930* 11	920	86.35	233	233	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
8	FSPL	PL	280* 13	920	102.0	26.3	210	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
1	FILL	PL	2930* 4	458	31.40	42.1	42	SS400		
312	FSPL	TCB	M 22* 95			0.598	187	S10T		
14	RSPL	PL	160* 10	630	78.50	7.91	111	SM570		
112	RSPL	TCB	M 22* 75			0.538	60	S10T		
2	WSPLI	PL	2640* 9	620	70.65	116	232	SM570		
216	WSPLI	TCB	M 22* 70			0.523	113	S10T		
2	WSPLI	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPLI	TCB	M 22* 70			0.523	113	S10T		
G02-J10							1551 kg			
2@ G02-J10							3102 kg			

## Calculation Weight Main Girder G02J G02-J11

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 15	1220	117.8	421	421	SM570		
1	FSPL	PL	80* 17	1220	133.4	13.0	13	SM570		
8	FSPL	PL	280* 17	1220	133.4	45.6	365	SM570		
1	FSPL	PL	80* 17	1220	133.4	13.0	13	SM570		
1	FILL	PL	2930* 8	608	62.80	112	112	SS400		
416	FSPL	TCB	M 22* 110			0.643	267	S10T		
14	RSPL	PL	160* 11	780	86.35	10.8	151	SM570		
140	RSPL	TCB	M 22* 80			0.553	77	S10T		
2	WSPLI	PL	2620* 9	620	70.65	115	230	SM570		
216	WSPLI	TCB	M 22* 70			0.523	113	S10T		
2	WSPLI	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPLI	TCB	M 22* 70			0.523	113	S10T		
G02-J11							2109 kg			
2@ G02-J11							4218 kg			

## Calculation Weight Main Girder G02J G02-J12

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 16	1370	125.6	504	504	SM570		
1	FSPL	PL	80* 18	1370	141.3	15.5	16	SM570		
8	FSPL	PL	280* 18	1370	141.3	54.2	434	SM570		
1	FSPL	PL	80* 18	1370	141.3	15.5	16	SM570		
1	FILL	PL	2930* 4	683	31.40	62.8	63	SS400		

## Caluculation of Steel Weight

(Unit ; mm,kg)

468	FSPL	TCB	M 22* 110			0.643	301	S10T		
14	RSPL	PL	160* 11	780	86.35	10.8	151	SM570		
140	RSPL	TCB	M 22* 80			0.553	77	S10T		
2	WSPLI	PL	2620* 9	620	70.65	115	230	SM570		
1	FILL	PL	2620* 2.3	308	18.06	14.6	15	SS400		
216	WSPLI	TCB	M 22* 70			0.523	113	S10T		
2	WSPLI	PL	2680* 9	620	70.65	117	234	SM570		
1	FILL	PL	2620* 2.3	308	18.06	14.6	15	SS400		
216	WSPLI	TCB	M 22* 70			0.523	113	S10T		
							G02-J12		2282 kg	
							2@ G02-J12		4564 kg	

## Calculation Weight Main Girder G02J G02-J13

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 10	920	78.50	212	212	SM570		
1	FSPL	PL	80* 11	920	86.35	6.36	6	SM570		
8	FSPL	PL	280* 11	920	86.35	22.2	178	SM570		
1	FSPL	PL	80* 11	920	86.35	6.36	6	SM570		
1	FILL	PL	2930* 11	458	86.35	116	116	SS400		
312	FSPL	TCB	M 22* 95			0.598	187	S10T		
14	RSPL	PL	160* 11	780	86.35	10.8	151	SM570		
112	RSPL	TCB	M 22* 80			0.553	62	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPLI	TCB	M 22* 65			0.508	110	S10T		
							G02-J13		1519 kg	
							2@ G02-J13		3038 kg	

## Calculation Weight Main Girder G02J G02-J14

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
4	FSPL	PL	620* 9	470	70.65	20.6	82	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	2930* 4	233	31.40	21.4	21	SS400		
180	FSPL	TCB	M 22* 80			0.553	100	S10T		
6	RSPL	PL	160* 9	480	70.65	5.43	33	SM490YA		
36	RSPL	TCB	M 22* 75			0.538	19	S10T		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J14							875 kg			
2@ G02-J14							1750 kg			

## Calculation Weight Main Girder G02J G02-J15

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 2.3	158	18.06	8.36	8	SS400		
120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J15							776 kg			
2@ G02-J15							1552 kg			

## Calculation Weight Main Girder G02J G02-J16

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
120	FSPL	TCB	M 22* 70			0.523	63	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J16							766 kg			

## Caluculation of Steel Weight

(Unit ; mm,kg)

2@ G02-J16	1532 kg
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Calculation Weight Main Girder G02J G02-J17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
4	FSPL	PL	620* 10	470	78.50	22.9	92	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J17							903 kg			
2@ G02-J17							1806 kg			

Calculation Weight Main Girder G02J G02-J18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
4	FSPL	PL	620* 10	470	78.50	22.9	92	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 15	630	117.8	11.9	71	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J18							907 kg			
2@ G02-J18							1814 kg			

Calculation Weight Main Girder G02J G02-J19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

4	FSPL	PL	620* 9	470	70.65	20.6	82	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	2930* 2.3	233	18.06	12.3	12	SS400		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPL	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
G02-J19							905 kg			
2@ G02-J19							1810 kg			

Calculation Weight Main Girder G02J G02-J20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
120	FSPL	TCB	M 22* 70			0.523	63	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPL	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
G02-J20							766 kg			
2@ G02-J20							1532 kg			

Calculation Weight Main Girder G02J G02-J21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 4	158	31.40	14.5	14	SS400		
120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J21							782 kg			
2@ G02-J21							1564 kg			

## Calculation Weight Main Girder G02J G02-J22

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	620	70.65	128	128	SM490YA		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM490YA		
8	FSPL	PL	280* 9	620	70.65	12.3	98	SM490YA		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM490YA		
1	FILL	PL	2930* 6	308	47.10	42.5	42	SS400		
208	FSPL	TCB	M 22* 80			0.553	115	S10T		
14	RSPL	PL	160* 9	480	70.65	5.43	76	SM490YA		
84	RSPL	TCB	M 22* 75			0.538	45	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J22							1029 kg			
2@ G02-J22							2058 kg			

## Calculation Weight Main Girder G02J G02-J23

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 11	920	86.35	233	233	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
8	FSPL	PL	280* 13	920	102.0	26.3	210	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
312	FSPL	TCB	M 22* 90			0.583	182	S10T		
14	RSPL	PL	160* 10	630	78.50	7.91	111	SM570		
112	RSPL	TCB	M 22* 80			0.553	62	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPLI	TCB	M 22* 65			0.508	110	S10T		
G02-J23							1415 kg			

## Calculation of Steel Weight

(Unit ; mm,kg)

2@ G02-J23	2830 kg
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Calculation Weight Main Girder G02J G02-J24										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 11	920	86.35	233	233	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
8	FSPL	PL	280* 13	920	102.0	26.3	210	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
312	FSPL	TCB	M 22* 90			0.583	182	S10T		
14	RSPL	PL	160* 10	630	78.50	7.91	111	SM570		
112	RSPL	TCB	M 22* 75			0.538	60	S10T		
2	WSPLI	PL	2620* 9	470	70.65	87.0	174	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPLI	TCB	M 22* 65			0.508	110	S10T		
G02-J24							1412 kg			
2@ G02-J24							2824 kg			

Calculation Weight Main Girder G02J G02-J25										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	620	70.65	128	128	SM570		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM570		
8	FSPL	PL	280* 9	620	70.65	12.3	98	SM570		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM570		
1	FILL	PL	2930* 6	308	47.10	42.5	42	SS400		
208	FSPL	TCB	M 22* 80			0.553	115	S10T		
14	RSPL	PL	160* 9	480	70.65	5.43	76	SM570		
84	RSPL	TCB	M 22* 75			0.538	45	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J25							1029 kg			
2@ G02-J25							2058 kg			

Calculation Weight Main Girder G02J G02-J26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM570		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	80* 9	470	70.65	2.66	3	SM570		
4	FSPL	PL	620* 9	470	70.65	20.6	82	SM570		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM570		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM570		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J26							859 kg			
2@ G02-J26							1718 kg			

## Calculation Weight Main Girder G02J G02-J27

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
4	FSPL	PL	620* 9	470	70.65	20.6	82	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J27							859 kg			
2@ G02-J27							1718 kg			

## Calculation Weight Main Girder G02J G02-J28

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 11	620	86.35	157	157	SM490YA		
1	FSPL	PL	80* 12	620	94.20	4.67	5	SM490YA		
4	FSPL	PL	620* 12	620	94.20	36.2	145	SM490YA		
1	FSPL	PL	80* 12	620	94.20	4.67	5	SM490YA		
240	FSPL	TCB	M 22* 80			0.553	133	S10T		
6	RSPL	PL	160* 15	630	117.8	11.9	71	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J28		1060 kg	
							2@ G02-J28		2120 kg	

## Calculation Weight Main Girder G02J G02-J29

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 12	620	94.20	171	171	SM490YA		
1	FSPL	PL	80* 14	620	109.9	5.45	5	SM490YA		
4	FSPL	PL	620* 14	620	109.9	42.2	169	SM490YA		
1	FSPL	PL	80* 14	620	109.9	5.45	5	SM490YA		
216	FSPL	TCB	M 22* 85			0.568	123	S10T		
6	RSPL	PL	160* 15	630	117.8	11.9	71	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J29		1088 kg	
							2@ G02-J29		2176 kg	

## Calculation Weight Main Girder G02J G02-J30

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 12	620	94.20	171	171	SM490YA		
1	FSPL	PL	80* 13	620	102.0	5.06	5	SM490YA		
4	FSPL	PL	620* 13	620	102.0	39.2	157	SM490YA		
1	FSPL	PL	80* 13	620	102.0	5.06	5	SM490YA		
216	FSPL	TCB	M 22* 85			0.568	123	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J30		1072 kg	
							2@ G02-J30		2144 kg	

## Calculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G02J G02-J31										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	620	70.65	128	128	SM490YA		
1	FSPL	PL	80* 10	620	78.50	3.89	4	SM490YA		
4	FSPL	PL	620* 10	620	78.50	30.2	121	SM490YA		
1	FSPL	PL	80* 10	620	78.50	3.89	4	SM490YA		
1	FILL	PL	2930* 4	308	31.40	28.3	28	SS400		
216	FSPL	TCB	M 22* 75			0.538	116	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J31							1012 kg			
2@ G02-J31							2024 kg			

Calculation Weight Main Girder G02J G02-J32										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
120	FSPL	TCB	M 22* 70			0.523	63	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J32							766 kg			
2@ G02-J32							1532 kg			

Calculation Weight Main Girder G02J G02-J33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 6	158	47.10	21.8	22	SS400		
120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J33							790 kg			
2@ G02-J33							1580 kg			

## Calculation Weight Main Girder G02J G02-J34

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	770	70.65	159	159	SM490YA		
1	FSPL	PL	80* 9	770	70.65	4.35	4	SM490YA		
8	FSPL	PL	280* 9	770	70.65	15.2	122	SM490YA		
1	FSPL	PL	80* 9	770	70.65	4.35	4	SM490YA		
1	FILL	PL	2930* 8	383	62.80	70.5	70	SS400		
260	FSPL	TCB	M 22* 85			0.568	148	S10T		
14	RSPL	PL	160* 10	480	78.50	6.03	84	SM490YA		
84	RSPL	TCB	M 22* 75			0.538	45	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J34							1153 kg			
2@ G02-J34							2306 kg			

## Calculation Weight Main Girder G02J G02-J35

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 12	1070	94.20	295	295	SM570		
1	FSPL	PL	80* 14	1070	109.9	9.41	9	SM570		
8	FSPL	PL	280* 14	1070	109.9	32.9	263	SM570		
1	FSPL	PL	80* 14	1070	109.9	9.41	9	SM570		
364	FSPL	TCB	M 22* 95			0.598	218	S10T		
14	RSPL	PL	160* 10	630	78.50	7.91	111	SM570		
112	RSPL	TCB	M 22* 75			0.538	60	S10T		
2	WSPLI	PL	2620* 9	470	70.65	87.0	174	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPLI	TCB	M 22* 65			0.508	110	S10T		
							G02-J35		1565 kg	
							2@ G02-J35		3130 kg	

## Calculation Weight Main Girder G02J G02-J36

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 12	1070	94.20	295	295	SM570		
1	FSPL	PL	80* 14	1070	109.9	9.41	9	SM570		
8	FSPL	PL	280* 14	1070	109.9	32.9	263	SM570		
1	FSPL	PL	80* 14	1070	109.9	9.41	9	SM570		
364	FSPL	TCB	M 22* 95			0.598	218	S10T		
14	RSPL	PL	160* 11	630	86.35	8.70	122	SM570		
112	RSPL	TCB	M 22* 80			0.553	62	S10T		
2	WSPLI	PL	2620* 9	470	70.65	87.0	174	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPLI	TCB	M 22* 65			0.508	110	S10T		
							G02-J36		1578 kg	
							2@ G02-J36		3156 kg	

## Calculation Weight Main Girder G02J G02-J37

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	770	70.65	159	159	SM490YA		
1	FSPL	PL	80* 10	770	78.50	4.84	5	SM490YA		
8	FSPL	PL	280* 10	770	78.50	16.9	135	SM490YA		
1	FSPL	PL	80* 10	770	78.50	4.84	5	SM490YA		
1	FILL	PL	2930* 6	383	47.10	52.8	53	SS400		
260	FSPL	TCB	M 22* 85			0.568	148	S10T		
14	RSPL	PL	160* 10	480	78.50	6.03	84	SM490YA		
84	RSPL	TCB	M 22* 75			0.538	45	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J37		1151 kg	
							2@ G02-J37		2302 kg	

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G02J G02-J38										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 8	158	62.80	29.1	29	SS400		
120	FSPL	TCB	M 22* 80			0.553	66	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J38	798 kg		
							2@ G02-J38	1596 kg		

Calculation Weight Main Girder G02J G02-J39										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
120	FSPL	TCB	M 22* 70			0.523	63	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J39	766 kg		
							2@ G02-J39	1532 kg		

Calculation Weight Main Girder G02J G02-J40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

4	FSPL	PL	620* 9	470	70.65	20.6	82	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	2930* 4	233	31.40	21.4	21	SS400		
120	FSPL	TCB	M 22* 80			0.553	66	S10T		
6	RSPL	PL	160* 15	630	117.8	11.9	71	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J40							887 kg			
2@ G02-J40							1774 kg			

Calculation Weight Main Girder G02J G02-J41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 10	470	78.50	108	108	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
4	FSPL	PL	620* 11	470	86.35	25.2	101	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 15	630	117.8	11.9	71	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J41							927 kg			
2@ G02-J41							1854 kg			

Calculation Weight Main Girder G02J G02-J42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 10	470	78.50	108	108	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
4	FSPL	PL	620* 11	470	86.35	25.2	101	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 15	630	117.8	11.9	71	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J42		927 kg	
							2@ G02-J42		1854 kg	

## Calculation Weight Main Girder G02J G02-J43

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
4	FSPL	PL	620* 9	470	70.65	20.6	82	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	2930* 4	233	31.40	21.4	21	SS400		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 15	630	117.8	11.9	71	SM490YA		
48	RSPL	TCB	M 22* 80			0.553	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J43		918 kg	
							2@ G02-J43		1836 kg	

## Calculation Weight Main Girder G02J G02-J44

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
120	FSPL	TCB	M 22* 70			0.523	63	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J44		766 kg	
							2@ G02-J44		1532 kg	



## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G02J G02-J45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 4	158	31.40	14.5	14	SS400		
120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J45							782 kg			
2@ G02-J45							1564 kg			

Calculation Weight Main Girder G02J G02-J46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	620	70.65	128	128	SM570		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM570		
8	FSPL	PL	280* 9	620	70.65	12.3	98	SM570		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM570		
1	FILL	PL	2930* 9	308	70.65	63.8	64	SS400		
208	FSPL	TCB	M 22* 85			0.568	118	S10T		
14	RSPL	PL	160* 9	630	70.65	7.12	100	SM570		
112	RSPL	TCB	M 22* 75			0.538	60	S10T		
2	WSPLI	PL	2620* 9	470	70.65	87.0	174	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J46							1092 kg			
2@ G02-J46							2184 kg			

Calculation Weight Main Girder G02J G02-J47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 11	920	86.35	233	233	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	80* 14	920	109.9	8.09	8	SM570		
8	FSPL	PL	280* 14	920	109.9	28.3	226	SM570		
1	FSPL	PL	80* 14	920	109.9	8.09	8	SM570		
1	FILL	PL	2930* 2.3	458	18.06	24.2	24	SS400		
312	FSPL	TCB	M 22* 95			0.598	187	S10T		
14	RSPL	PL	160* 10	630	78.50	7.91	111	SM570		
112	RSPL	TCB	M 22* 75			0.538	60	S10T		
2	WSPL	PL	2620* 9	470	70.65	87.0	174	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
G02-J47							1373 kg			
2@ G02-J47							2746 kg			

## Calculation Weight Main Girder G02J G02-J48

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 12	920	94.20	254	254	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
8	FSPL	PL	280* 13	920	102.0	26.3	210	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
1	FILL	PL	2930* 3.2	458	25.12	33.7	34	SS400		
312	FSPL	TCB	M 22* 95			0.598	187	S10T		
14	RSPL	PL	160* 11	630	86.35	8.70	122	SM570		
112	RSPL	TCB	M 22* 80			0.553	62	S10T		
2	WSPL	PL	2620* 9	470	70.65	87.0	174	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPL	TCB	M 22* 65			0.508	110	S10T		
G02-J48							1485 kg			
2@ G02-J48							2970 kg			

## Calculation Weight Main Girder G02J G02-J49

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	620	70.65	128	128	SM570		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM570		
8	FSPL	PL	280* 9	620	70.65	12.3	98	SM570		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM570		
1	FILL	PL	2930* 8	308	62.80	56.7	57	SS400		
208	FSPL	TCB	M 22* 85			0.568	118	S10T		

## Caluculation of Steel Weight

(Unit ; mm,kg)

14	RSPL	PL	160* 9	480	70.65	5.43	76	SM570		
112	RSPL	TCB	M 22* 75			0.538	60	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J49							1062 kg			
2@ G02-J49							2124 kg			

## Calculation Weight Main Girder G02J G02-J50

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 4	158	31.40	14.5	14	SS400		
120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J50							782 kg			
2@ G02-J50							1564 kg			

## Calculation Weight Main Girder G02J G02-J51

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 3.2	158	25.12	11.6	12	SS400		
120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J51		780 kg	
							2@ G02-J51		1560 kg	

## Calculation Weight Main Girder G02J G02-J52

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
4	FSPL	PL	620* 10	470	78.50	22.9	92	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
1	FILL	PL	2930* 4	233	31.40	21.4	21	SS400		
180	FSPL	TCB	M 22* 80			0.553	100	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM490YA		
48	RSPL	TCB	M 22* 80			0.553	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J52		927 kg	
							2@ G02-J52		1854 kg	

## Calculation Weight Main Girder G02J G02-J53

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 11	620	86.35	157	157	SM490YA		
1	FSPL	PL	80* 13	620	102.0	5.06	5	SM490YA		
4	FSPL	PL	620* 13	620	102.0	39.2	157	SM490YA		
1	FSPL	PL	80* 13	620	102.0	5.06	5	SM490YA		
240	FSPL	TCB	M 22* 85			0.568	136	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J53		1071 kg	
							2@ G02-J53		2142 kg	

## Calculation Weight Main Girder G02J G02-J54

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 11	620	86.35	157	157	SM490YA		
1	FSPL	PL	80* 13	620	102.0	5.06	5	SM490YA		
4	FSPL	PL	620* 13	620	102.0	39.2	157	SM490YA		
1	FSPL	PL	80* 13	620	102.0	5.06	5	SM490YA		
240	FSPL	TCB	M 22* 85			0.568	136	S10T		
6	RSPL	PL	160* 15	630	117.8	11.9	71	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J54							1075 kg			
2@ G02-J54							2150 kg			

Calculation Weight Main Girder G02J G02-J55										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
4	FSPL	PL	620* 10	470	78.50	22.9	92	SM490YA		
1	FSPL	PL	80* 10	470	78.50	2.95	3	SM490YA		
1	FILL	PL	2930* 4	233	31.40	21.4	21	SS400		
180	FSPL	TCB	M 22* 80			0.553	100	S10T		
6	RSPL	PL	160* 15	630	117.8	11.9	71	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J55							931 kg			
2@ G02-J55							1862 kg			

Calculation Weight Main Girder G02J G02-J56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		

## Caluculation of Steel Weight

(Unit ; mm,kg)

120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J56							768 kg			
2@ G02-J56							1536 kg			

## Calculation Weight Main Girder G02J G02-J57

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 6	308	47.10	42.5	42	SS400		
208	FSPL	TCB	M 22* 85			0.568	118	S10T		
6	RSPL	PL	160* 9	480	70.65	5.43	33	SM490YA		
36	RSPL	TCB	M 22* 75			0.538	19	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J57							855 kg			
2@ G02-J57							1710 kg			

## Calculation Weight Main Girder G02J G02-J58

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	620	70.65	128	128	SM490YA		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM490YA		
8	FSPL	PL	280* 9	620	70.65	12.3	98	SM490YA		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM490YA		
1	FILL	PL	2930* 6	383	47.10	52.8	53	SS400		
260	FSPL	TCB	M 22* 85			0.568	148	S10T		
14	RSPL	PL	160* 10	480	78.50	6.03	84	SM490YA		
84	RSPL	TCB	M 22* 75			0.538	45	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
G02-J58							1081 kg			
2@ G02-J58							2162 kg			

## Calculation Weight Main Girder G02J G02-J59

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 11	920	86.35	233	233	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
8	FSPL	PL	280* 13	920	102.0	26.3	210	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
312	FSPL	TCB	M 22* 90			0.583	182	S10T		
14	RSPL	PL	160* 10	630	78.50	7.91	111	SM570		
112	RSPL	TCB	M 22* 75			0.538	60	S10T		
2	WSPL	PL	2620* 9	470	70.65	87.0	174	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPL	TCB	M 22* 65			0.508	110	S10T		
G02-J59							1412 kg			
2@ G02-J59							2824 kg			

## Calculation Weight Main Girder G02J G02-J60

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 11	920	86.35	233	233	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
8	FSPL	PL	280* 13	920	102.0	26.3	210	SM570		
1	FSPL	PL	80* 13	920	102.0	7.51	8	SM570		
312	FSPL	TCB	M 22* 90			0.583	182	S10T		
14	RSPL	PL	160* 10	630	78.50	7.91	111	SM570		
112	RSPL	TCB	M 22* 75			0.538	60	S10T		
2	WSPL	PL	2620* 9	470	70.65	87.0	174	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
G02-J60							1328 kg			
2@ G02-J60							2656 kg			

## Calculation Weight Main Girder G02J G02-J61

## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	620	70.65	128	128	SM570		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM570		
8	FSPL	PL	280* 9	620	70.65	12.3	98	SM570		
1	FSPL	PL	80* 9	620	70.65	3.50	4	SM570		
1	FILL	PL	2930* 8	308	62.80	56.7	57	SS400		
208	FSPL	TCB	M 22* 85			0.568	118	S10T		
14	RSPL	PL	160* 9	480	70.65	5.43	76	SM570		
84	RSPL	TCB	M 22* 75			0.538	45	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J61	1047 kg		
							2@ G02-J61	2094 kg		

## Calculation Weight Main Girder G02J G02-J62

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 4	158	31.40	14.5	14	SS400		
120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J62	782 kg		
							2@ G02-J62	1564 kg		

## Calculation Weight Main Girder G02J G02-J63

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		



## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
120	FSPL	TCB	M 22* 70			0.523	63	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J63							766 kg			
2@ G02-J63							1532 kg			

## Calculation Weight Main Girder G02J G02-J64

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
4	FSPL	PL	620* 9	470	70.65	20.6	82	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	2930* 4	233	31.40	21.4	21	SS400		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J64							914 kg			
2@ G02-J64							1828 kg			

## Calculation Weight Main Girder G02J G02-J65

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
4	FSPL	PL	620* 11	470	86.35	25.2	101	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 15	630	117.8	11.9	71	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J65							916 kg			
2@ G02-J65							1832 kg			

## Calculation Weight Main Girder G02J G02-J66

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
4	FSPL	PL	620* 11	470	86.35	25.2	101	SM490YA		
1	FSPL	PL	80* 11	470	86.35	3.25	3	SM490YA		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J66							912 kg			
2@ G02-J66							1824 kg			

## Calculation Weight Main Girder G02J G02-J67

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
4	FSPL	PL	620* 9	470	70.65	20.6	82	SM490YA		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM490YA		
1	FILL	PL	2930* 4	233	31.40	21.4	21	SS400		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 13	630	102.0	10.3	62	SM490YA		
48	RSPL	TCB	M 22* 80			0.553	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J67							909 kg			
2@ G02-J67							1818 kg			

## Calculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G02J G02-J68										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 2.3	158	18.06	8.36	8	SS400		
120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPL	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
							G02-J68	776 kg		
							2@ G02-J68	1552 kg		

Calculation Weight Main Girder G02J G02-J69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM570		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM570		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM570		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM570		
1	FILL	PL	2930* 6	158	47.10	21.8	22	SS400		
120	FSPL	TCB	M 22* 80			0.553	66	S10T		
6	RSPL	PL	160* 9	480	70.65	5.43	33	SM570		
36	RSPL	TCB	M 22* 75			0.538	19	S10T		
2	WSPL	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
							G02-J69	783 kg		
							2@ G02-J69	1566 kg		

Calculation Weight Main Girder G02J G02-J70										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	770	70.65	159	159	SM570		
1	FSPL	PL	80* 10	770	78.50	4.84	5	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

8	FSPL	PL	280* 10	770	78.50	16.9	135	SM570		
1	FSPL	PL	80* 10	770	78.50	4.84	5	SM570		
1	FILL	PL	2930* 9	383	70.65	79.3	79	SS400		
260	FSPL	TCB	M 22* 90			0.583	152	S10T		
14	RSPL	PL	160* 10	630	78.50	7.91	111	SM570		
112	RSPL	TCB	M 22* 75			0.538	60	S10T		
2	WSPL	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		
G02-J70							1223 kg			
2@ G02-J70							2446 kg			

Calculation Weight Main Girder G02J G02-J71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 13	1220	102.0	365	365	SM570		
1	FSPL	PL	80* 17	1220	133.4	13.0	13	SM570		
8	FSPL	PL	280* 17	1220	133.4	45.6	365	SM570		
1	FSPL	PL	80* 17	1220	133.4	13.0	13	SM570		
416	FSPL	TCB	M 22* 105			0.628	261	S10T		
14	RSPL	PL	160* 11	630	86.35	8.70	122	SM570		
112	RSPL	TCB	M 22* 80			0.553	62	S10T		
2	WSPL	PL	2620* 9	470	70.65	87.0	174	SM570		
1	FILL	PL	2620* 2.3	233	18.06	11.0	11	SS400		
162	WSPL	TCB	M 22* 70			0.523	85	S10T		
2	WSPL	PL	2680* 9	620	70.65	117	234	SM570		
1	FILL	PL	2680* 2.3	308	18.06	14.9	15	SS400		
216	WSPL	TCB	M 22* 70			0.523	113	S10T		
G02-J71							1833 kg			
2@ G02-J71							3666 kg			

Calculation Weight Main Girder G02J G02-J72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 13	1070	102.0	320	320	SM570		
1	FSPL	PL	80* 16	1070	125.6	10.8	11	SM570		
8	FSPL	PL	280* 16	1070	125.6	37.6	301	SM570		
1	FSPL	PL	80* 16	1070	125.6	10.8	11	SM570		
364	FSPL	TCB	M 22* 100			0.613	223	S10T		
14	RSPL	PL	160* 10	630	78.50	7.91	111	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

112	RSPL	TCB	M 22* 80			0.553	62	S10T		
2	WSPL	PL	2620* 9	620	70.65	115	230	SM570		
216	WSPL	TCB	M 22* 70			0.523	113	S10T		
2	WSPL	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPL	TCB	M 22* 70			0.523	113	S10T		
G02-J72							1729 kg			
2@ G02-J72							3458 kg			

## Calculation Weight Main Girder G02J G02-J73

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	770	70.65	159	159	SM570		
1	FSPL	PL	80* 9	770	70.65	4.35	4	SM570		
8	FSPL	PL	280* 9	770	70.65	15.2	122	SM570		
1	FSPL	PL	80* 9	770	70.65	4.35	4	SM570		
1	FILL	PL	2930* 10	383	78.50	88.1	88	SS400		
260	FSPL	TCB	M 22* 85			0.568	148	S10T		
14	RSPL	PL	160* 9	630	70.65	7.12	100	SM570		
112	RSPL	TCB	M 22* 75			0.538	60	S10T		
2	WSPL	PL	2640* 9	470	70.65	87.7	175	SM570		
1	FILL	PL	2640* 2.3	233	18.06	11.1	11	SS400		
162	WSPL	TCB	M 22* 70			0.523	85	S10T		
2	WSPL	PL	2680* 9	470	70.65	89.0	178	SM570		
1	FILL	PL	2680* 2.3	308	18.06	14.9	15	SS400		
162	WSPL	TCB	M 22* 70			0.523	85	S10T		
G02-J73							1234 kg			
2@ G02-J73							2468 kg			

## Calculation Weight Main Girder G02J G02-J74

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM570		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM570		
4	FSPL	PL	620* 9	470	70.65	20.6	82	SM570		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM570		
1	FILL	PL	2930* 4	233	31.40	21.4	21	SS400		
180	FSPL	TCB	M 22* 80			0.553	100	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM570		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPL	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPL	TCB	M 22* 65			0.508	82	S10T		

## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J74							883 kg			
2@ G02-J74							1766 kg			

## Calculation Weight Main Girder G02J G02-J75

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	470	70.65	97.3	97	SM570		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM570		
4	FSPL	PL	620* 9	470	70.65	20.6	82	SM570		
1	FSPL	PL	80* 9	470	70.65	2.66	3	SM570		
180	FSPL	TCB	M 22* 75			0.538	97	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM570		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J75							859 kg			
2@ G02-J75							1718 kg			

## Calculation Weight Main Girder G02J G02-J76

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	620	70.65	128	128	SM570		
1	FSPL	PL	80* 11	620	86.35	4.28	4	SM570		
4	FSPL	PL	620* 11	620	86.35	33.2	133	SM570		
1	FSPL	PL	80* 11	620	86.35	4.28	4	SM570		
1	FILL	PL	2930* 4	308	31.40	28.3	28	SS400		
180	FSPL	TCB	M 22* 80			0.553	100	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM570		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J76							974 kg			
2@ G02-J76							1948 kg			

## Calculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder G02J G02-J77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 12	770	94.20	213	213	SM570		
1	FSPL	PL	80* 13	770	102.0	6.28	6	SM570		
4	FSPL	PL	620* 13	770	102.0	48.7	195	SM570		
1	FSPL	PL	80* 13	770	102.0	6.28	6	SM570		
300	FSPL	TCB	M 22* 85			0.568	170	S10T		
6	RSPL	PL	160* 15	780	117.8	14.7	88	SM570		
60	RSPL	TCB	M 22* 85			0.568	34	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
							G02-J77	1229 kg		
							2@ G02-J77	2458 kg		

Calculation Weight Main Girder G02J G02-J78										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 12	770	94.20	213	213	SM570		
1	FSPL	PL	80* 14	770	109.9	6.77	7	SM570		
4	FSPL	PL	620* 14	770	109.9	52.5	210	SM570		
1	FSPL	PL	80* 14	770	109.9	6.77	7	SM570		
276	FSPL	TCB	M 22* 85			0.568	157	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM570		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM570		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPLI	TCB	M 22* 65			0.508	110	S10T		
							G02-J78	1289 kg		
							2@ G02-J78	2578 kg		

Calculation Weight Main Girder G02J G02-J79										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 11	770	86.35	195	195	SM570		
1	FSPL	PL	80* 12	770	94.20	5.80	6	SM570		
4	FSPL	PL	620* 12	770	94.20	45.0	180	SM570		
1	FSPL	PL	80* 12	770	94.20	5.80	6	SM570		

## Caluculation of Steel Weight

(Unit ; mm,kg)

1	FILL	PL	2930* 3.2	383	25.12	28.2	28	SS400		
276	FSPL	TCB	M 22* 85			0.568	157	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM570		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	620	70.65	116	232	SM570		
216	WSPLI	TCB	M 22* 65			0.508	110	S10T		
2	WSPLI	PL	2680* 9	620	70.65	117	234	SM570		
216	WSPLI	TCB	M 22* 65			0.508	110	S10T		
G02-J79							1345 kg			
2@ G02-J79							2690 kg			

## Calculation Weight Main Girder G02J G02-J80

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 11	620	86.35	157	157	SM490YA		
1	FSPL	PL	80* 12	620	94.20	4.67	5	SM490YA		
4	FSPL	PL	620* 12	620	94.20	36.2	145	SM490YA		
1	FSPL	PL	80* 12	620	94.20	4.67	5	SM490YA		
216	FSPL	TCB	M 22* 80			0.553	119	S10T		
6	RSPL	PL	160* 14	630	109.9	11.1	67	SM490YA		
48	RSPL	TCB	M 22* 85			0.568	27	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J80							1042 kg			
2@ G02-J80							2084 kg			

## Calculation Weight Main Girder G02J G02-J81

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	FSPL	PL	2930* 9	320	70.65	66.2	66	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
4	FSPL	PL	620* 9	320	70.65	14.0	56	SM490YA		
1	FSPL	PL	80* 9	320	70.65	1.81	2	SM490YA		
1	FILL	PL	2930* 6	158	47.10	21.8	22	SS400		
120	FSPL	TCB	M 22* 75			0.538	65	S10T		
6	RSPL	PL	160* 11	480	86.35	6.63	40	SM490YA		
36	RSPL	TCB	M 22* 80			0.553	20	S10T		
2	WSPLI	PL	2640* 9	470	70.65	87.7	175	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		



## Caluculation of Steel Weight

(Unit ; mm,kg)

2	WSPLI	PL	2680* 9	470	70.65	89.0	178	SM490YA		
162	WSPLI	TCB	M 22* 65			0.508	82	S10T		
G02-J81										
790 kg										
2@ G02-J81										
1580 kg										
G02J										
175694 kg										

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder D_MAN P13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
8		PL	700* 11	1000	86.35	60.4	483	SM400A		
4		PL	480* 9	680	70.65	23.1	92	SM400A		
8		PL	150* 9	400	70.65	4.24	34	SM400A		
8		PL	80* 9	110	70.65	0.622	5	SM400A		
4		RB	13 φ	310	1.040	0.322	1	SS400		
16		BN	M 16* 40			0.149	2	SUS304		
4		PIPE	20	280		0	0	SUS304		
8		PIN	5 φ	36	0.1541	0.00555	1	SUS304		
P13							618 kg			

Calculation Weight Main Girder D_MAN P14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
8		PL	700* 19	1000	149.2	104	832	SM400A		
4		PL	480* 9	680	70.65	23.1	92	SM400A		
8		PL	150* 9	400	70.65	4.24	34	SM400A		
8		PL	80* 9	110	70.65	0.622	5	SM400A		
4		RB	13 φ	310	1.040	0.322	1	SS400		
16		BN	M 16* 40			0.149	2	SUS304		
4		PIPE	20	280		0	0	SUS304		
8		PIN	5 φ	36	0.1541	0.00555	1	SUS304		
P14							967 kg			

Calculation Weight Main Girder D_MAN P15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
8		PL	700* 19	1000	149.2	104	832	SM400A		
4		PL	480* 9	680	70.65	23.1	92	SM400A		
8		PL	150* 9	400	70.65	4.24	34	SM400A		
8		PL	80* 9	110	70.65	0.622	5	SM400A		
4		RB	13 φ	310	1.040	0.322	1	SS400		
16		BN	M 16* 40			0.149	2	SUS304		
4		PIPE	20	280		0	0	SUS304		
8		PIN	5 φ	36	0.1541	0.00555	1	SUS304		
P15							967 kg			

Calculation Weight Main Girder D_MAN P16										
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## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
8		PL	700* 19	1000	149.2	104	832	SM400A		
4		PL	480* 9	680	70.65	23.1	92	SM400A		
8		PL	150* 9	400	70.65	4.24	34	SM400A		
8		PL	80* 9	110	70.65	0.622	5	SM400A		
4		RB	13 φ	310	1.040	0.322	1	SS400		
16		BN	M 16* 40			0.149	2	SUS304		
4		PIPE	20	280		0	0	SUS304		
8		PIN	5 φ	36	0.1541	0.00555	1	SUS304		
P16							967 kg			

## Calculation Weight Main Girder D\_MAN P17

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
8		PL	700* 19	1000	149.2	104	832	SM400A		
4		PL	480* 9	680	70.65	23.1	92	SM400A		
8		PL	150* 9	400	70.65	4.24	34	SM400A		
8		PL	80* 9	110	70.65	0.622	5	SM400A		
4		RB	13 φ	310	1.040	0.322	1	SS400		
16		BN	M 16* 40			0.149	2	SUS304		
4		PIPE	20	280		0	0	SUS304		
8		PIN	5 φ	36	0.1541	0.00555	1	SUS304		
P17							967 kg			

## Calculation Weight Main Girder D\_MAN P18

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
8		PL	700* 19	1000	149.2	104	832	SM400A		
4		PL	480* 9	680	70.65	23.1	92	SM400A		
8		PL	150* 9	400	70.65	4.24	34	SM400A		
8		PL	80* 9	110	70.65	0.622	5	SM400A		
4		RB	13 φ	310	1.040	0.322	1	SS400		
16		BN	M 16* 40			0.149	2	SUS304		
4		PIPE	20	280		0	0	SUS304		
8		PIN	5 φ	36	0.1541	0.00555	1	SUS304		
P18							967 kg			

## Calculation Weight Main Girder D\_MAN P19

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
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## Caluculation of Steel Weight

(Unit ; mm,kg)

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
8		PL	700* 19	1000	149.2	104	832	SM400A		
4		PL	480* 9	680	70.65	23.1	92	SM400A		
8		PL	150* 9	400	70.65	4.24	34	SM400A		
8		PL	80* 9	110	70.65	0.622	5	SM400A		
4		RB	13 φ	310	1.040	0.322	1	SS400		
16		BN	M 16* 40			0.149	2	SUS304		
4		PIPE	20	280		0	0	SUS304		
8		PIN	5 φ	36	0.1541	0.00555	1	SUS304		
P19							967 kg			

## Calculation Weight Main Girder D\_MAN P20

Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
8		PL	700* 11	1000	86.35	60.4	483	SM400A		
4		PL	480* 9	680	70.65	23.1	92	SM400A		
8		PL	150* 9	400	70.65	4.24	34	SM400A		
8		PL	80* 9	110	70.65	0.622	5	SM400A		
4		RB	13 φ	310	1.040	0.322	1	SS400		
16		BN	M 16* 40			0.149	2	SUS304		
4		PIPE	20	280		0	0	SUS304		
8		PIN	5 φ	36	0.1541	0.00555	1	SUS304		
P20							618 kg			
D_MAN							7038 kg			

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder DRAIN DRAIN										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
28		PL	50* 6	523	47.10	1.23	34	SM400A		G1,G4
14		PL	50* 6	516	47.10	1.22	17	SM400A		G1,G4
28		PL	75* 22	75	172.7	0.971	27	SM400A		G1,G4
28		PL	50* 6	677	47.10	1.59	45	SM400A		G2,G3
28		PL	50* 6	672	47.10	1.58	44	SM400A		G2,G3
28		PL	75* 22	75	172.7	0.971	27	SM400A		G2,G3
DRAIN							194 kg			
DRAIN							194 kg			

## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder H_BRACKET A										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
657		PL	100* 9	120	70.65	0.848	557	SM400A		STL
990		PL	100* 9	120	70.65	0.848	840	SM400A		G1
990		PL	100* 9	120	70.65	0.848	840	SM400A		G2
990		PL	100* 9	120	70.65	0.848	840	SM400A		G3
990		PL	100* 9	120	70.65	0.848	840	SM400A		G4
657		PL	100* 9	120	70.65	0.848	557	SM400A		STR
A							4474 kg			

Calculation Weight Main Girder H_BRACKET B										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
330		PL	100* 9	270	70.65	1.91	630	SM400A		G1
330		PL	100* 9	270	70.65	1.91	630	SM400A		G2
330		PL	100* 9	270	70.65	1.91	630	SM400A		G3
330		PL	100* 9	270	70.65	1.91	630	SM400A		G4
B							2520 kg			
H_BRACKET							6994 kg			

## Calculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder HAND A										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
296		PL	300* 9	300	70.65	6.36	1883	SS400		
296		PL	340* 16	340	125.6	14.5	4292	SM490YA		
1776		BN	M 16* 60			0.18	320	SS400		
A							6495 kg			

Calculation Weight Main Girder HAND B										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
12		PL	300* 9	300	70.65	6.36	76	SS400		
12		PL	340* 22	340	172.7	20.0	240	SM570		
72		BN	M 16* 70			0.196	14	SS400		
B							330 kg			

Calculation Weight Main Girder HAND C										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
4		PL	300* 9	300	70.65	6.36	25	SS400		
4		PL	340* 27	340	212.0	24.5	98	SM570		
24		BN	M 16* 80			0.212	5	SS400		
C							128 kg			

Calculation Weight Main Girder HAND D										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
4		PL	300* 9	300	70.65	6.36	25	SS400		
4		PL	340* 19	340	149.2	17.2	69	SM570		
24		BN	M 16* 65			0.188	5	SS400		
D							99 kg			

Calculation Weight Main Girder HAND E										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
4		PL	300* 9	300	70.65	6.36	25	SS400		
4		PL	340* 21	340	164.8	19.1	76	SM570		
24		BN	M 16* 70			0.196	5	SS400		

## Caluculation of Steel Weight

(Unit ; mm,kg)

E	106 kg
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Calculation Weight Main Girder HAND F										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
4		PL	300* 9	300	70.65	6.36	25	SS400		
4		PL	340* 20	340	157.0	18.1	72	SM570		
24		BN	M 16* 65			0.188	5	SS400		
F										102 kg

Calculation Weight Main Girder HAND G										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
4		PL	300* 9	300	70.65	6.36	25	SS400		
4		PL	340* 25	340	196.2	22.7	91	SM570		
24		BN	M 16* 75			0.204	5	SS400		
G										121 kg
HAND										7381 kg



## Caluculation of Steel Weight

(Unit ; mm,kg)

Calculation Weight Main Girder INSPEC MAN										
Quantity	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
328		PL	700* 12	700	94.20	46.2	15154	SM400A		
164		PL	480* 9	480	70.65	16.3	2673	SM400A		
328		PL	150* 9	400	70.65	4.24	1391	SM400A		
328		PL	80* 9	110	70.65	0.622	204	SM400A		
164		RB	13 φ	310	1.040	0.322	53	SS400		
656		BN	M 16* 40			0.149	98	SUS304		
164		PIPE	20	280		0	0	SUS304		
328		PIN	5 φ	36	0.1541	0.00555	2	SUS304		
MAN							19575 kg			
INSPEC							19575 kg			
Main Gider							4749621 kg			
Design Weight							4769196 kg			

## 材料計算書 Caluculation of Steel Weight

(単位: mm,kg)

Calculation Weight Steel deck D1 D01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1239* 16	9614	125.6	1496	1496	SM490YA		
1	RIB	BULB	230* 11	9446	25.10	237	237	SM490YA		
1	RIB	U	320* 240* 8	9446	42.30	400	400	SM490YA		
1	WEB	PL	384* 10	9600	78.50	289	289	SM400A		
1	FLG	PL	100* 10	9600	78.50	75.4	75	SM400A		
							D01	2497 kg		
							2@ D01	4994 kg		

Calculation Weight Steel deck D1 D02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	10128	125.6	1526	1526	SM490YA		
1	RIB	BULB	230* 11	10093	25.10	253	253	SM490YA		
1	RIB	U	320* 240* 8	10093	42.30	427	427	SM490YA		
1	WEB	PL	384* 10	10099	78.50	304	304	SM400A		
1	FLG	PL	100* 10	10098	78.50	79.3	79	SM400A		
							D02	2589 kg		
							2@ D02	5178 kg		

Calculation Weight Steel deck D1 D03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	10028	125.6	1511	1511	SM490YA		
1	RIB	BULB	230* 11	9993	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9993	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9999	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9998	78.50	78.5	78	SM400A		
							D03	2564 kg		
							2@ D03	5128 kg		

Calculation Weight Steel deck D1 D04										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	10028	125.6	1511	1511	SM490YA		
1	RIB	BULB	230* 11	9993	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9993	42.30	423	423	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	WEB	PL	384* 10	9999	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9998	78.50	78.5	78	SM400A		
D04								2564 kg		
2@ D04								5128 kg		

Calculation Weight Steel deck D1 D05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1228* 16	10021	125.6	1546	1546	SM490YA		
1	RIB	BULB	230* 11	9992	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9992	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9998	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9997	78.50	78.5	78	SM400A		
D05								2599 kg		
2@ D05								5198 kg		

Calculation Weight Steel deck D1 D06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1204* 16	9996	125.6	1512	1512	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D06								2565 kg		
2@ D06								5130 kg		

Calculation Weight Steel deck D1 D07										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D07								2559 kg		
2@ D07								5118 kg		

Calculation Weight Steel deck D1 D08										
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## 材料計算書 Caluculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D08	2559 kg		
							2@ D08	5118 kg		

Calculation Weight Steel deck D1 D09										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D09	2559 kg		
							2@ D09	5118 kg		

Calculation Weight Steel deck D1 D10										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 20	9995	157.0	1882	1882	SM490YB		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D10	2935 kg		
							2@ D10	5870 kg		

Calculation Weight Steel deck D1 D11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 27	7495	212.0	1907	1907	SM490YB		
1	RIB	BULB	230* 11	7490	25.10	188	188	SM490YA		
1	RIB	U	320* 240* 8	7490	42.30	317	317	SM490YA		
1	WEB	PL	384* 10	7496	78.50	226	226	SM400A		
1	FLG	PL	100* 10	7495	78.50	58.8	59	SM400A		

## 材料計算書 Calculation of Steel Weight

D11	2697 kg
2@ D11	5394 kg

Calculation Weight Steel deck D1 D12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 27	6745	212.0	1716	1716	SM490YB		
1	RIB	BULB	230* 11	6740	25.10	169	169	SM490YA		
1	RIB	U	320* 240* 8	6740	42.30	285	285	SM490YA		
1	WEB	PL	384* 10	6746	78.50	203	203	SM400A		
1	FLG	PL	100* 10	6745	78.50	52.9	53	SM400A		
D12							2426 kg			
2@ D12							4852 kg			

Calculation Weight Steel deck D1 D13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 27	9995	212.0	2542	2542	SM490YB		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D13							3595 kg			
2@ D13							7190 kg			

Calculation Weight Steel deck D1 D14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 22	9245	172.7	1915	1915	SM490YB		
1	RIB	BULB	230* 11	9240	25.10	232	232	SM490YA		
1	RIB	U	320* 240* 8	9240	42.30	391	391	SM490YA		
1	WEB	PL	384* 10	9246	78.50	279	279	SM400A		
1	FLG	PL	100* 10	9245	78.50	72.6	73	SM400A		
D14							2890 kg			
2@ D14							5780 kg			

Calculation Weight Steel deck D1 D15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D15			
							2559 kg			
							2@ D15			
							5118 kg			

Calculation Weight Steel deck D1 D16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D16			
							2559 kg			
							2@ D16			
							5118 kg			

Calculation Weight Steel deck D1 D17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D17			
							2559 kg			
							2@ D17			
							5118 kg			

Calculation Weight Steel deck D1 D18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	7495	125.6	1130	1130	SM490YA		
1	RIB	BULB	230* 11	7490	25.10	188	188	SM490YA		
1	RIB	U	320* 240* 8	7490	42.30	317	317	SM490YA		
1	WEB	PL	384* 10	7496	78.50	226	226	SM400A		
1	FLG	PL	100* 10	7495	78.50	58.8	59	SM400A		
							D18			
							1920 kg			

## 材料計算書 Caluculation of Steel Weight

2@ D18	3840 kg
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Calculation Weight Steel deck D1 D19										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D19							2559 kg			
2@ D19							5118 kg			

Calculation Weight Steel deck D1 D20										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D20							2559 kg			
2@ D20							5118 kg			

Calculation Weight Steel deck D1 D21										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D21							2559 kg			
2@ D21							5118 kg			

Calculation Weight Steel deck D1 D22										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9245	125.6	1393	1393	SM490YA		
1	RIB	BULB	230* 11	9240	25.10	232	232	SM490YA		

## 材料計算書 Caluculation of Steel Weight

1	RIB	U	320* 240* 8	9240	42.30	391	391	SM490YA		
1	WEB	PL	384* 10	9246	78.50	279	279	SM400A		
1	FLG	PL	100* 10	9245	78.50	72.6	73	SM400A		
							D22		2368 kg	
							2@ D22		4736 kg	

Calculation Weight Steel deck D1 D23										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 19	9995	149.2	1789	1789	SM490YB		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D23		2842 kg	
							2@ D23		5684 kg	

Calculation Weight Steel deck D1 D24										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 19	5995	149.2	1073	1073	SM490YB		
1	RIB	BULB	230* 11	5990	25.10	150	150	SM490YA		
1	RIB	U	320* 240* 8	5990	42.30	253	253	SM490YA		
1	WEB	PL	384* 10	5996	78.50	181	181	SM400A		
1	FLG	PL	100* 10	5995	78.50	47.1	47	SM400A		
							D24		1704 kg	
							2@ D24		3408 kg	

Calculation Weight Steel deck D1 D25										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 19	9995	149.2	1789	1789	SM490YB		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D25		2842 kg	
							2@ D25		5684 kg	



## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D1 D26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9245	125.6	1393	1393	SM490YA		
1	RIB	BULB	230* 11	9240	25.10	232	232	SM490YA		
1	RIB	U	320* 240* 8	9240	42.30	391	391	SM490YA		
1	WEB	PL	384* 10	9246	78.50	279	279	SM400A		
1	FLG	PL	100* 10	9245	78.50	72.6	73	SM400A		
							D26	2368 kg		
							2@ D26	4736 kg		

Calculation Weight Steel deck D1 D27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D27	2559 kg		
							2@ D27	5118 kg		

Calculation Weight Steel deck D1 D28										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D28	2559 kg		
							2@ D28	5118 kg		

Calculation Weight Steel deck D1 D29										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		

## 材料計算書 Calculation of Steel Weight

1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A			
							D29	2559 kg			
							2@ D29	5118 kg			

Calculation Weight Steel deck D1 D30											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1200* 16	7495	125.6	1130	1130	SM490YA			
1	RIB	BULB	230* 11	7490	25.10	188	188	SM490YA			
1	RIB	U	320* 240* 8	7490	42.30	317	317	SM490YA			
1	WEB	PL	384* 10	7496	78.50	226	226	SM400A			
1	FLG	PL	100* 10	7495	78.50	58.8	59	SM400A			
							D30	1920 kg			
							2@ D30	3840 kg			

Calculation Weight Steel deck D1 D31											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA			
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA			
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA			
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A			
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A			
							D31	2559 kg			
							2@ D31	5118 kg			

Calculation Weight Steel deck D1 D32											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA			
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA			
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA			
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A			
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A			
							D32	2559 kg			
							2@ D32	5118 kg			

Calculation Weight Steel deck D1 D33										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D33	2559 kg		
							2@ D33	5118 kg		

### Calculation Weight Steel deck D1 D34

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9245	125.6	1393	1393	SM490YA		
1	RIB	BULB	230* 11	9240	25.10	232	232	SM490YA		
1	RIB	U	320* 240* 8	9240	42.30	391	391	SM490YA		
1	WEB	PL	384* 10	9246	78.50	279	279	SM400A		
1	FLG	PL	100* 10	9245	78.50	72.6	73	SM400A		
							D34	2368 kg		
							2@ D34	4736 kg		

### Calculation Weight Steel deck D1 D35

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 22	9995	172.7	2071	2071	SM490YB		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D35	3124 kg		
							2@ D35	6248 kg		

### Calculation Weight Steel deck D1 D36

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 22	5995	172.7	1242	1242	SM490YB		
1	RIB	BULB	230* 11	5990	25.10	150	150	SM490YA		
1	RIB	U	320* 240* 8	5990	42.30	253	253	SM490YA		
1	WEB	PL	384* 10	5996	78.50	181	181	SM400A		
1	FLG	PL	100* 10	5995	78.50	47.1	47	SM400A		

## 材料計算書 Caluculation of Steel Weight

D36	1873 kg
2@ D36	3746 kg

Calculation Weight Steel deck D1 D37										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 22	9995	172.7	2071	2071	SM490YB		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D37							3124 kg			
2@ D37							6248 kg			

Calculation Weight Steel deck D1 D38										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9245	125.6	1393	1393	SM490YA		
1	RIB	BULB	230* 11	9240	25.10	232	232	SM490YA		
1	RIB	U	320* 240* 8	9240	42.30	391	391	SM490YA		
1	WEB	PL	384* 10	9246	78.50	279	279	SM400A		
1	FLG	PL	100* 10	9245	78.50	72.6	73	SM400A		
D38							2368 kg			
2@ D38							4736 kg			

Calculation Weight Steel deck D1 D39										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D39							2559 kg			
2@ D39							5118 kg			

Calculation Weight Steel deck D1 D40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D40								2559 kg		
2@ D40								5118 kg		

Calculation Weight Steel deck D1 D41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D41								2559 kg		
2@ D41								5118 kg		

Calculation Weight Steel deck D1 D42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	7495	125.6	1130	1130	SM490YA		
1	RIB	BULB	230* 11	7490	25.10	188	188	SM490YA		
1	RIB	U	320* 240* 8	7490	42.30	317	317	SM490YA		
1	WEB	PL	384* 10	7496	78.50	226	226	SM400A		
1	FLG	PL	100* 10	7495	78.50	58.8	59	SM400A		
D42								1920 kg		
2@ D42								3840 kg		

Calculation Weight Steel deck D1 D43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D43								2559 kg		
2@ D43								5118 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D1 D44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D44	2559 kg		
							2@ D44	5118 kg		

Calculation Weight Steel deck D1 D45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D45	2559 kg		
							2@ D45	5118 kg		

Calculation Weight Steel deck D1 D46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9245	125.6	1393	1393	SM490YA		
1	RIB	BULB	230* 11	9240	25.10	232	232	SM490YA		
1	RIB	U	320* 240* 8	9240	42.30	391	391	SM490YA		
1	WEB	PL	384* 10	9246	78.50	279	279	SM400A		
1	FLG	PL	100* 10	9245	78.50	72.6	73	SM400A		
							D46	2368 kg		
							2@ D46	4736 kg		

Calculation Weight Steel deck D1 D47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 22	9995	172.7	2071	2071	SM490YB		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D47							3124 kg			
2@ D47							6248 kg			

Calculation Weight Steel deck D1 D48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 21	5995	164.8	1186	1186	SM490YB		
1	RIB	BULB	230* 11	5990	25.10	150	150	SM490YA		
1	RIB	U	320* 240* 8	5990	42.30	253	253	SM490YA		
1	WEB	PL	384* 10	5996	78.50	181	181	SM400A		
1	FLG	PL	100* 10	5995	78.50	47.1	47	SM400A		
D48							1817 kg			
2@ D48							3634 kg			

Calculation Weight Steel deck D1 D49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 22	9995	172.7	2071	2071	SM490YB		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D49							3124 kg			
2@ D49							6248 kg			

Calculation Weight Steel deck D1 D50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9245	125.6	1393	1393	SM490YA		
1	RIB	BULB	230* 11	9240	25.10	232	232	SM490YA		
1	RIB	U	320* 240* 8	9240	42.30	391	391	SM490YA		
1	WEB	PL	384* 10	9246	78.50	279	279	SM400A		
1	FLG	PL	100* 10	9245	78.50	72.6	73	SM400A		
D50							2368 kg			
2@ D50							4736 kg			

Calculation Weight Steel deck D1 D51										
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## 材料計算書 Caluculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D51	2559 kg		
							2@ D51	5118 kg		

Calculation Weight Steel deck D1 D52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D52	2559 kg		
							2@ D52	5118 kg		

Calculation Weight Steel deck D1 D53										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D53	2559 kg		
							2@ D53	5118 kg		

Calculation Weight Steel deck D1 D54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	7495	125.6	1130	1130	SM490YA		
1	RIB	BULB	230* 11	7490	25.10	188	188	SM490YA		
1	RIB	U	320* 240* 8	7490	42.30	317	317	SM490YA		
1	WEB	PL	384* 10	7496	78.50	226	226	SM400A		
1	FLG	PL	100* 10	7495	78.50	58.8	59	SM400A		



材料計算書 Caluculation of Steel Weight

D54	1920 kg
2@ D54	3840 kg

Calculation Weight Steel deck D1 D55										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D55							2559 kg			
2@ D55							5118 kg			

Calculation Weight Steel deck D1 D56										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D56							2559 kg			
2@ D56							5118 kg			

Calculation Weight Steel deck D1 D57										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D57							2559 kg			
2@ D57							5118 kg			

Calculation Weight Steel deck D1 D58										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	DECK	PL	1200* 16	9245	125.6	1393	1393	SM490YA		
1	RIB	BULB	230* 11	9240	25.10	232	232	SM490YA		
1	RIB	U	320* 240* 8	9240	42.30	391	391	SM490YA		
1	WEB	PL	384* 10	9246	78.50	279	279	SM400A		
1	FLG	PL	100* 10	9245	78.50	72.6	73	SM400A		
							D58			
							2368 kg			
							2@ D58			
							4736 kg			

Calculation Weight Steel deck D1 D59										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 20	9995	157.0	1882	1882	SM490YB		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D59			
							2935 kg			
							2@ D59			
							5870 kg			

Calculation Weight Steel deck D1 D60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 20	5995	157.0	1129	1129	SM490YB		
1	RIB	BULB	230* 11	5990	25.10	150	150	SM490YA		
1	RIB	U	320* 240* 8	5990	42.30	253	253	SM490YA		
1	WEB	PL	384* 10	5996	78.50	181	181	SM400A		
1	FLG	PL	100* 10	5995	78.50	47.1	47	SM400A		
							D60			
							1760 kg			
							2@ D60			
							3520 kg			

Calculation Weight Steel deck D1 D61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 20	9995	157.0	1882	1882	SM490YB		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D61			
							2935 kg			

## 材料計算書 Caluculation of Steel Weight

2@ D61	5870 kg
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Calculation Weight Steel deck D1 D62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9245	125.6	1393	1393	SM490YA		
1	RIB	BULB	230* 11	9240	25.10	232	232	SM490YA		
1	RIB	U	320* 240* 8	9240	42.30	391	391	SM490YA		
1	WEB	PL	384* 10	9246	78.50	279	279	SM400A		
1	FLG	PL	100* 10	9245	78.50	72.6	73	SM400A		
D62							2368 kg			
2@ D62							4736 kg			

Calculation Weight Steel deck D1 D63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D63							2559 kg			
2@ D63							5118 kg			

Calculation Weight Steel deck D1 D64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D64							2559 kg			
2@ D64							5118 kg			

Calculation Weight Steel deck D1 D65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D65	2559 kg		
							2@ D65	5118 kg		

Calculation Weight Steel deck D1 D66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	7495	125.6	1130	1130	SM490YA		
1	RIB	BULB	230* 11	7490	25.10	188	188	SM490YA		
1	RIB	U	320* 240* 8	7490	42.30	317	317	SM490YA		
1	WEB	PL	384* 10	7496	78.50	226	226	SM400A		
1	FLG	PL	100* 10	7495	78.50	58.8	59	SM400A		
							D66	1920 kg		
							2@ D66	3840 kg		

Calculation Weight Steel deck D1 D67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D67	2559 kg		
							2@ D67	5118 kg		

Calculation Weight Steel deck D1 D68										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D68	2559 kg		
							2@ D68	5118 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D1 D69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D69	2559 kg		
							2@ D69	5118 kg		

Calculation Weight Steel deck D1 D70										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9245	125.6	1393	1393	SM490YA		
1	RIB	BULB	230* 11	9240	25.10	232	232	SM490YA		
1	RIB	U	320* 240* 8	9240	42.30	391	391	SM490YA		
1	WEB	PL	384* 10	9246	78.50	279	279	SM400A		
1	FLG	PL	100* 10	9245	78.50	72.6	73	SM400A		
							D70	2368 kg		
							2@ D70	4736 kg		

Calculation Weight Steel deck D1 D71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 25	9995	196.2	2352	2352	SM490YB		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D71	3405 kg		
							2@ D71	6810 kg		

Calculation Weight Steel deck D1 D72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 25	6745	196.2	1588	1588	SM490YB		
1	RIB	BULB	230* 11	6740	25.10	169	169	SM490YA		
1	RIB	U	320* 240* 8	6740	42.30	285	285	SM490YA		
1	WEB	PL	384* 10	6746	78.50	203	203	SM400A		

## 材料計算書 Calculation of Steel Weight

1	FLG	PL	100* 10	6745	78.50	52.9	53	SM400A			
							D72	2298 kg			
							2@ D72	4596 kg			

Calculation Weight Steel deck D1 D73											
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1200* 25	9995	196.2	2352	2352	SM490YB			
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA			
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA			
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A			
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A			
							D73	3405 kg			
							2@ D73	6810 kg			

Calculation Weight Steel deck D1 D74											
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA			
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA			
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA			
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A			
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A			
							D74	2559 kg			
							2@ D74	5118 kg			

Calculation Weight Steel deck D1 D75											
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA			
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA			
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA			
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A			
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A			
							D75	2559 kg			
							2@ D75	5118 kg			

Calculation Weight Steel deck D1 D76										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D76	2559 kg		
							2@ D76	5118 kg		

### Calculation Weight Steel deck D1 D77

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D77	2559 kg		
							2@ D77	5118 kg		

### Calculation Weight Steel deck D1 D78

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
							D78	2559 kg		
							2@ D78	5118 kg		

### Calculation Weight Steel deck D1 D79

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		

## 材料計算書 Calculation of Steel Weight

D79	2559 kg
2@ D79	5118 kg

Calculation Weight Steel deck D1 D80										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	9995	125.6	1506	1506	SM490YA		
1	RIB	BULB	230* 11	9990	25.10	251	251	SM490YA		
1	RIB	U	320* 240* 8	9990	42.30	423	423	SM490YA		
1	WEB	PL	384* 10	9996	78.50	301	301	SM400A		
1	FLG	PL	100* 10	9995	78.50	78.5	78	SM400A		
D80							2559 kg			
2@ D80							5118 kg			

Calculation Weight Steel deck D1 D81										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	11158	125.6	1682	1682	SM490YA		
1	RIB	BULB	230* 11	11152	25.10	280	280	SM490YA		
1	RIB	U	320* 240* 8	11152	42.30	472	472	SM490YA		
1	WEB	PL	384* 10	11160	78.50	336	336	SM400A		
1	FLG	PL	100* 10	11158	78.50	87.6	88	SM400A		
D81							2858 kg			
2@ D81							5716 kg			

Calculation Weight Steel deck D1 D82										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1200* 16	8335	125.6	1256	1256	SM490YA		
1	RIB	BULB	230* 11	8182	25.10	205	205	SM490YA		
1	RIB	U	320* 240* 8	8182	42.30	346	346	SM490YA		
1	WEB	PL	384* 10	8338	78.50	251	251	SM400A		
1	FLG	PL	100* 10	8335	78.50	65.4	65	SM400A		
D82							2123 kg			
2@ D82							4246 kg			

Calculation Weight Steel deck D1 J01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		



## 材料計算書 Calculation of Steel Weight

1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J01							138 kg			
2@ J01							276 kg			

Calculation Weight Steel deck D1 J02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J02							138 kg			
2@ J02							276 kg			

Calculation Weight Steel deck D1 J03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J03							138 kg			
2@ J03							276 kg			

Calculation Weight Steel deck D1 J04										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	1000	70.65	43.8	44	SM490YA		
1	SPL	PL	620* 11	360	86.35	19.3	19	SM490YA		
1	SPL	PL	620* 11	190	86.35	10.2	10	SM490YA		
1	SPL	PL	620* 11	270	86.35	14.5	14	SM490YA		
56	SPL	TCB	M 22* 70			0.523	29	S10T		
24	SPL	HTB	M 22* 75			0.57	14	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J04							176 kg			
2@ J04							352 kg			

Calculation Weight Steel deck D1 J05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	1000	70.65	43.8	44	SM490YA		
1	SPL	PL	620* 11	360	86.35	19.3	19	SM490YA		
1	SPL	PL	620* 11	190	86.35	10.2	10	SM490YA		
1	SPL	PL	620* 11	270	86.35	14.5	14	SM490YA		
56	SPL	TCB	M 22* 70			0.523	29	S10T		
24	SPL	HTB	M 22* 75			0.57	14	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J05							176 kg			
2@ J05							352 kg			

Calculation Weight Steel deck D1 J06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J06							138 kg			
2@ J06							276 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D1 J07										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J07							138 kg			
2@ J07							276 kg			

Calculation Weight Steel deck D1 J08										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J08							138 kg			
2@ J08							276 kg			

Calculation Weight Steel deck D1 J09										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 6	360	47.10	3.90	4	SS400		
1	FILL	PL	230* 6	190	47.10	2.06	2	SS400		
1	FILL	PL	230* 6	270	47.10	2.92	3	SS400		
42	SPL	TCB	M 22* 75			0.538	23	S10T		
18	SPL	HTB	M 22* 80			0.585	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	FILL	PL	300* 6	380	47.10	5.37	5	SS400		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
J09							155 kg			
2@ J09							310 kg			

Calculation Weight Steel deck D1 J10										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 5	360	39.25	3.25	3	SS400		
1	FILL	PL	230* 5	190	39.25	1.72	2	SS400		
1	FILL	PL	230* 5	270	39.25	2.44	2	SS400		
42	SPL	TCB	M 22* 80			0.553	23	S10T		
18	SPL	HTB	M 22* 85			0.6	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 5	380	39.25	4.47	4	SS400		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
J10							152 kg			
2@ J10							304 kg			

Calculation Weight Steel deck D1 J11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 12	1000	94.20	72.5	72	SM490YA		
1	SPL	PL	770* 16	360	125.6	34.8	35	SM490YA		
1	SPL	PL	770* 16	190	125.6	18.4	18	SM490YA		
1	SPL	PL	770* 16	270	125.6	26.1	26	SM490YA		
70	SPL	TCB	M 22* 90			0.583	41	S10T		
30	SPL	HTB	M 22* 95			0.63	19	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 90			0.583	12	S10T		
J11							259 kg			
2@ J11							518 kg			

Calculation Weight Steel deck D1 J12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	770* 12	1000	94.20	72.5	72	SM490YA		
1	SPL	PL	770* 16	360	125.6	34.8	35	SM490YA		
1	SPL	PL	770* 16	190	125.6	18.4	18	SM490YA		
1	SPL	PL	770* 16	270	125.6	26.1	26	SM490YA		
70	SPL	TCB	M 22* 90			0.583	41	S10T		
30	SPL	HTB	M 22* 95			0.63	19	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 90			0.583	12	S10T		
J12							259 kg			
2@ J12							518 kg			

Calculation Weight Steel deck D1 J13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 5	360	39.25	3.25	3	SS400		
1	FILL	PL	230* 5	190	39.25	1.72	2	SS400		
1	FILL	PL	230* 5	270	39.25	2.44	2	SS400		
42	SPL	TCB	M 22* 80			0.553	23	S10T		
18	SPL	HTB	M 22* 85			0.6	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 5	380	39.25	4.47	4	SS400		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
J13							152 kg			
2@ J13							304 kg			

Calculation Weight Steel deck D1 J14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 6	360	47.10	3.90	4	SS400		
1	FILL	PL	230* 6	190	47.10	2.06	2	SS400		
1	FILL	PL	230* 6	270	47.10	2.92	3	SS400		
42	SPL	TCB	M 22* 75			0.538	23	S10T		
18	SPL	HTB	M 22* 80			0.585	11	F10T		

## 材料計算書 Calculation of Steel Weight

2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 6	380	47.10	5.37	5	SS400		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
J14							155 kg			
2@ J14							310 kg			

Calculation Weight Steel deck D1 J15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J15							138 kg			
2@ J15							276 kg			

Calculation Weight Steel deck D1 J16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J16							138 kg			
2@ J16							276 kg			

Calculation Weight Steel deck D1 J17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J17							138 kg			
2@ J17							276 kg			

Calculation Weight Steel deck D1 J18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J18							138 kg			
2@ J18							276 kg			

Calculation Weight Steel deck D1 J19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J19							138 kg			
2@ J19							276 kg			

Calculation Weight Steel deck D1 J20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J20							138 kg			
2@ J20							276 kg			

Calculation Weight Steel deck D1 J21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J21							138 kg			
2@ J21							276 kg			

Calculation Weight Steel deck D1 J22										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 3.2	360	25.12	2.08	2	SS400		
1	FILL	PL	230* 3.2	190	25.12	1.10	1	SS400		
1	FILL	PL	230* 3.2	270	25.12	1.56	2	SS400		
42	SPL	TCB	M 22* 75			0.538	23	S10T		
18	SPL	HTB	M 22* 80			0.585	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 3.2	380	25.12	2.86	3	SS400		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
J22							149 kg			



## 材料計算書 Calculation of Steel Weight

2@ J22

298 kg

Calculation Weight Steel deck D1 J23										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	1000	70.65	43.8	44	SM490YA		
1	SPL	PL	620* 11	360	86.35	19.3	19	SM490YA		
1	SPL	PL	620* 11	190	86.35	10.2	10	SM490YA		
1	SPL	PL	620* 11	270	86.35	14.5	14	SM490YA		
56	SPL	TCB	M 22* 75			0.538	30	S10T		
24	SPL	HTB	M 22* 80			0.585	14	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
							J23	178 kg		
							2@ J23	356 kg		

Calculation Weight Steel deck D1 J24										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	1000	70.65	43.8	44	SM490YA		
1	SPL	PL	620* 11	360	86.35	19.3	19	SM490YA		
1	SPL	PL	620* 11	190	86.35	10.2	10	SM490YA		
1	SPL	PL	620* 11	270	86.35	14.5	14	SM490YA		
56	SPL	TCB	M 22* 75			0.538	30	S10T		
24	SPL	HTB	M 22* 80			0.585	14	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
							J24	178 kg		
							2@ J24	356 kg		

Calculation Weight Steel deck D1 J25										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 3.2	360	25.12	2.08	2	SS400		
1	FILL	PL	230* 3.2	190	25.12	1.10	1	SS400		
1	FILL	PL	230* 3.2	270	25.12	1.56	2	SS400		
42	SPL	TCB	M 22* 75			0.538	23	S10T		

## 材料計算書 Calculation of Steel Weight

18	SPL	HTB	M 22* 80			0.585	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 3.2	380	25.12	2.86	3	SS400		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
J25							149 kg			
2@ J25							298 kg			

Calculation Weight Steel deck D1 J26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J26							138 kg			
2@ J26							276 kg			

Calculation Weight Steel deck D1 J27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J27							138 kg			
2@ J27							276 kg			

Calculation Weight Steel deck D1 J28										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J28		138 kg	
							2@ J28		276 kg	

Calculation Weight Steel deck D1 J29										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J29		138 kg	
							2@ J29		276 kg	

Calculation Weight Steel deck D1 J30										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J30		138 kg	
							2@ J30		276 kg	

Calculation Weight Steel deck D1 J31										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J31	138 kg		
							2@ J31	276 kg		

Calculation Weight Steel deck D1 J32										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J32	138 kg		
							2@ J32	276 kg		

Calculation Weight Steel deck D1 J33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J33	138 kg		
							2@ J33	276 kg		

Calculation Weight Steel deck D1 J34										
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## 材料計算書 Caluculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 6	360	47.10	3.90	4	SS400		
1	FILL	PL	230* 6	190	47.10	2.06	2	SS400		
1	FILL	PL	230* 6	270	47.10	2.92	3	SS400		
42	SPL	TCB	M 22* 75			0.538	23	S10T		
18	SPL	HTB	M 22* 80			0.585	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 6	380	47.10	5.37	5	SS400		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
J34							155 kg			
2@ J34							310 kg			

Calculation Weight Steel deck D1 J35										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	1000	78.50	48.7	49	SM490YA		
1	SPL	PL	620* 13	360	102.0	22.8	23	SM490YA		
1	SPL	PL	620* 13	190	102.0	12.0	12	SM490YA		
1	SPL	PL	620* 13	270	102.0	17.1	17	SM490YA		
56	SPL	TCB	M 22* 80			0.553	31	S10T		
24	SPL	HTB	M 22* 85			0.6	14	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
J35							193 kg			
2@ J35							386 kg			

Calculation Weight Steel deck D1 J36										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	1000	78.50	48.7	49	SM490YA		
1	SPL	PL	620* 13	360	102.0	22.8	23	SM490YA		
1	SPL	PL	620* 13	190	102.0	12.0	12	SM490YA		
1	SPL	PL	620* 13	270	102.0	17.1	17	SM490YA		
56	SPL	TCB	M 22* 80			0.553	31	S10T		
24	SPL	HTB	M 22* 85			0.6	14	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		

## 材料計算書 Calculation of Steel Weight

20	SPL	TCB	M 22* 80			0.553	11	S10T			
							J36	193 kg			
							2@ J36	386 kg			

Calculation Weight Steel deck D1 J37										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 6	360	47.10	3.90	4	SS400		
1	FILL	PL	230* 6	190	47.10	2.06	2	SS400		
1	FILL	PL	230* 6	270	47.10	2.92	3	SS400		
42	SPL	TCB	M 22* 75			0.538	23	S10T		
18	SPL	HTB	M 22* 80			0.585	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 6	380	47.10	5.37	5	SS400		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
							J37	155 kg		
							2@ J37	310 kg		

Calculation Weight Steel deck D1 J38										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J38	138 kg		
							2@ J38	276 kg		

Calculation Weight Steel deck D1 J39										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J39							138 kg			
2@ J39							276 kg			

Calculation Weight Steel deck D1 J40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J40							138 kg			
2@ J40							276 kg			

Calculation Weight Steel deck D1 J41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J41							138 kg			
2@ J41							276 kg			

Calculation Weight Steel deck D1 J42										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J42							138 kg			
2@ J42							276 kg			

Calculation Weight Steel deck D1 J43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J43							138 kg			
2@ J43							276 kg			

Calculation Weight Steel deck D1 J44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J44							138 kg			
2@ J44							276 kg			



## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D1 J45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J45	138 kg		
							2@ J45	276 kg		

Calculation Weight Steel deck D1 J46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 5	360	39.25	3.25	3	SS400		
1	FILL	PL	230* 5	190	39.25	1.72	2	SS400		
1	FILL	PL	230* 5	270	39.25	2.44	2	SS400		
42	SPL	TCB	M 22* 75			0.538	23	S10T		
18	SPL	HTB	M 22* 80			0.585	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 5	380	39.25	4.47	4	SS400		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
							J46	152 kg		
							2@ J46	304 kg		

Calculation Weight Steel deck D1 J47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	1000	78.50	48.7	49	SM490YA		
1	SPL	PL	620* 13	360	102.0	22.8	23	SM490YA		
1	SPL	PL	620* 13	190	102.0	12.0	12	SM490YA		
1	SPL	PL	620* 13	270	102.0	17.1	17	SM490YA		
56	SPL	TCB	M 22* 80			0.553	31	S10T		
24	SPL	HTB	M 22* 85			0.6	14	F10T		

## 材料計算書 Calculation of Steel Weight

2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
J47							193 kg			
2@ J47							386 kg			

Calculation Weight Steel deck D1 J48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	1000	78.50	48.7	49	SM490YA		
1	SPL	PL	620* 13	360	102.0	22.8	23	SM490YA		
1	SPL	PL	620* 13	190	102.0	12.0	12	SM490YA		
1	SPL	PL	620* 13	270	102.0	17.1	17	SM490YA		
56	SPL	TCB	M 22* 80			0.553	31	S10T		
24	SPL	HTB	M 22* 85			0.6	14	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
J48							193 kg			
2@ J48							386 kg			

Calculation Weight Steel deck D1 J49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 5	360	39.25	3.25	3	SS400		
1	FILL	PL	230* 5	190	39.25	1.72	2	SS400		
1	FILL	PL	230* 5	270	39.25	2.44	2	SS400		
42	SPL	TCB	M 22* 75			0.538	23	S10T		
18	SPL	HTB	M 22* 80			0.585	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 5	380	39.25	4.47	4	SS400		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
J49							152 kg			
2@ J49							304 kg			

Calculation Weight Steel deck D1 J50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J50							138 kg			
2@ J50							276 kg			

Calculation Weight Steel deck D1 J51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J51							138 kg			
2@ J51							276 kg			

Calculation Weight Steel deck D1 J52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J52							138 kg			
2@ J52							276 kg			

Calculation Weight Steel deck D1 J53										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J53							138 kg			
2@ J53							276 kg			

Calculation Weight Steel deck D1 J54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J54							138 kg			
2@ J54							276 kg			

Calculation Weight Steel deck D1 J55										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J55							138 kg			
2@ J55							276 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D1 J56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J56							138 kg			
2@ J56							276 kg			

Calculation Weight Steel deck D1 J57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J57							138 kg			
2@ J57							276 kg			

Calculation Weight Steel deck D1 J58										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 4	360	31.40	2.60	3	SS400		
1	FILL	PL	230* 4	190	31.40	1.37	1	SS400		
1	FILL	PL	230* 4	270	31.40	1.95	2	SS400		
42	SPL	TCB	M 22* 75			0.538	23	S10T		
18	SPL	HTB	M 22* 80			0.585	11	F10T		

## 材料計算書 Calculation of Steel Weight

2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 4	380	31.40	3.58	4	SS400		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
J58							151 kg			
2@ J58							302 kg			

Calculation Weight Steel deck D1 J59										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	1000	78.50	48.7	49	SM490YA		
1	SPL	PL	620* 13	360	102.0	22.8	23	SM490YA		
1	SPL	PL	620* 13	190	102.0	12.0	12	SM490YA		
1	SPL	PL	620* 13	270	102.0	17.1	17	SM490YA		
56	SPL	TCB	M 22* 80			0.553	31	S10T		
24	SPL	HTB	M 22* 85			0.6	14	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
J59							193 kg			
2@ J59							386 kg			

Calculation Weight Steel deck D1 J60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	1000	78.50	48.7	49	SM490YA		
1	SPL	PL	620* 13	360	102.0	22.8	23	SM490YA		
1	SPL	PL	620* 13	190	102.0	12.0	12	SM490YA		
1	SPL	PL	620* 13	270	102.0	17.1	17	SM490YA		
56	SPL	TCB	M 22* 80			0.553	31	S10T		
24	SPL	HTB	M 22* 85			0.6	14	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
J60							193 kg			
2@ J60							386 kg			

Calculation Weight Steel deck D1 J61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 4	360	31.40	2.60	3	SS400		
1	FILL	PL	230* 4	190	31.40	1.37	1	SS400		
1	FILL	PL	230* 4	270	31.40	1.95	2	SS400		
42	SPL	TCB	M 22* 75			0.538	23	S10T		
18	SPL	HTB	M 22* 80			0.585	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 4	380	31.40	3.58	4	SS400		
20	SPL	TCB	M 22* 75			0.538	11	S10T		
							J61		151 kg	
							2@ J61		302 kg	

Calculation Weight Steel deck D1 J62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J62		138 kg	
							2@ J62		276 kg	

Calculation Weight Steel deck D1 J63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J63		105 kg	
							2@ J63		210 kg	

Calculation Weight Steel deck D1 J64										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J64	105 kg		
							2@ J64	210 kg		

Calculation Weight Steel deck D1 J65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J65	105 kg		
							2@ J65	210 kg		

Calculation Weight Steel deck D1 J66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J66	105 kg		
							2@ J66	210 kg		

Calculation Weight Steel deck D1 J67										



## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J67	105 kg		
							2@ J67	210 kg		

Calculation Weight Steel deck D1 J68										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J68	138 kg		
							2@ J68	276 kg		

Calculation Weight Steel deck D1 J69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J69	138 kg		
							2@ J69	276 kg		

Calculation Weight Steel deck D1 J70										
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## 材料計算書 Caluculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 9	360	70.65	5.85	6	SS400		
1	FILL	PL	230* 9	190	70.65	3.09	3	SS400		
1	FILL	PL	230* 9	270	70.65	4.39	4	SS400		
42	SPL	TCB	M 22* 80			0.553	23	S10T		
18	SPL	HTB	M 22* 85			0.6	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 9	380	70.65	8.05	8	SS400		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
J70							162 kg			
2@ J70							324 kg			

Calculation Weight Steel deck D1 J71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 12	1000	94.20	72.5	72	SM490YA		
1	SPL	PL	770* 16	360	125.6	34.8	35	SM490YA		
1	SPL	PL	770* 16	190	125.6	18.4	18	SM490YA		
1	SPL	PL	770* 16	270	125.6	26.1	26	SM490YA		
70	SPL	TCB	M 22* 90			0.583	41	S10T		
30	SPL	HTB	M 22* 95			0.63	19	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 90			0.583	12	S10T		
J71							259 kg			
2@ J71							518 kg			

Calculation Weight Steel deck D1 J72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 12	1000	94.20	72.5	72	SM490YA		
1	SPL	PL	770* 16	360	125.6	34.8	35	SM490YA		
1	SPL	PL	770* 16	190	125.6	18.4	18	SM490YA		
1	SPL	PL	770* 16	270	125.6	26.1	26	SM490YA		
70	SPL	TCB	M 22* 90			0.583	41	S10T		
30	SPL	HTB	M 22* 95			0.63	19	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		

## 材料計算書 Calculation of Steel Weight

20	SPL	TCB	M 22* 90			0.583	12	S10T		
							J72	259 kg		
							2@ J72	518 kg		

Calculation Weight Steel deck D1 J73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
1	FILL	PL	230* 9	360	70.65	5.85	6	SS400		
1	FILL	PL	230* 9	190	70.65	3.09	3	SS400		
1	FILL	PL	230* 9	270	70.65	4.39	4	SS400		
42	SPL	TCB	M 22* 80			0.553	23	S10T		
18	SPL	HTB	M 22* 85			0.6	11	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
1	FILL	PL	300* 9	380	70.65	8.05	8	SS400		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
							J73	162 kg		
							2@ J73	324 kg		

Calculation Weight Steel deck D1 J74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J74	138 kg		
							2@ J74	276 kg		

Calculation Weight Steel deck D1 J75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J75							138 kg			
2@ J75							276 kg			

Calculation Weight Steel deck D1 J76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J76							138 kg			
2@ J76							276 kg			

Calculation Weight Steel deck D1 J77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J77							138 kg			
2@ J77							276 kg			

Calculation Weight Steel deck D1 J78										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J78							138 kg			
2@ J78							276 kg			

### Calculation Weight Steel deck D1 J79

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J79							138 kg			
2@ J79							276 kg			

### Calculation Weight Steel deck D1 J80

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
J80							138 kg			
2@ J80							276 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck D1 J81										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	1000	70.65	33.2	33	SM490YA		
1	SPL	PL	470* 9	360	70.65	12.0	12	SM490YA		
1	SPL	PL	470* 9	190	70.65	6.31	6	SM490YA		
1	SPL	PL	470* 9	270	70.65	8.97	9	SM490YA		
42	SPL	TCB	M 22* 70			0.523	22	S10T		
18	SPL	HTB	M 22* 75			0.57	10	F10T		
2	SPL	PL	300* 9	850	70.65	18.0	36	SM490YA		
20	SPL	TCB	M 22* 70			0.523	10	S10T		
							J81	138 kg		
							2@ J81	276 kg		
							D1	441378 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D2 D01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1329* 16	9616	125.6	1605	1605	SM490YA		
2	RIB	U	320* 240* 8	9446	42.30	400	800	SM490YA		
							D01	2405 kg		
							2@ D01	4810 kg		

Calculation Weight Steel deck D2 D02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	10131	125.6	1642	1642	SM490YA		
2	RIB	U	320* 240* 8	10093	42.30	427	854	SM490YA		
							D02	2496 kg		
							2@ D02	4992 kg		

Calculation Weight Steel deck D2 D03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	10031	125.6	1625	1625	SM490YA		
2	RIB	U	320* 240* 8	9993	42.30	423	846	SM490YA		
							D03	2471 kg		
							2@ D03	4942 kg		

Calculation Weight Steel deck D2 D04										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	10031	125.6	1625	1625	SM490YA		
2	RIB	U	320* 240* 8	9993	42.30	423	846	SM490YA		
							D04	2471 kg		
							2@ D04	4942 kg		

Calculation Weight Steel deck D2 D05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1318* 16	10022	125.6	1659	1659	SM490YA		
2	RIB	U	320* 240* 8	9992	42.30	423	846	SM490YA		
							D05	2505 kg		

## 材料計算書 Caluculation of Steel Weight

2@ D05	5010 kg
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Calculation Weight Steel deck D2 D06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1294* 16	9996	125.6	1624	1624	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
D06							2470 kg			
2@ D06							4940 kg			

Calculation Weight Steel deck D2 D07										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
D07							2465 kg			
2@ D07							4930 kg			

Calculation Weight Steel deck D2 D08										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
D08							2465 kg			
2@ D08							4930 kg			

Calculation Weight Steel deck D2 D09										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
D09							2465 kg			
2@ D09							4930 kg			

Calculation Weight Steel deck D2 D10										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 22	9995	172.7	2226	2226	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		



## 材料計算書 Caluculation of Steel Weight

		D10	3072 kg
		2@ D10	6144 kg

Calculation Weight Steel deck D2 D11										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 27	7495	212.0	2050	2050	SM490YB		
2	RIB	U	320* 240* 8	7490	42.30	317	634	SM490YA		
							D11	2684 kg		
							2@ D11	5368 kg		

Calculation Weight Steel deck D2 D12										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 27	6745	212.0	1845	1845	SM490YB		
2	RIB	U	320* 240* 8	6740	42.30	285	570	SM490YA		
							D12	2415 kg		
							2@ D12	4830 kg		

Calculation Weight Steel deck D2 D13										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 27	9995	212.0	2733	2733	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D13	3579 kg		
							2@ D13	7158 kg		

Calculation Weight Steel deck D2 D14										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 22	9245	172.7	2060	2060	SM490YB		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
							D14	2842 kg		
							2@ D14	5684 kg		

Calculation Weight Steel deck D2 D15										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D15	2465 kg		
							2@ D15	4930 kg		

Calculation Weight Steel deck D2 D16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D16	2465 kg		
							2@ D16	4930 kg		

Calculation Weight Steel deck D2 D17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D17	2465 kg		
							2@ D17	4930 kg		

Calculation Weight Steel deck D2 D18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	7495	125.6	1214	1214	SM490YA		
2	RIB	U	320* 240* 8	7490	42.30	317	634	SM490YA		
							D18	1848 kg		
							2@ D18	3696 kg		

Calculation Weight Steel deck D2 D19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D19	2465 kg		
							2@ D19	4930 kg		

Calculation Weight Steel deck D2 D20										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D20	2465 kg		
							2@ D20	4930 kg		

Calculation Weight Steel deck D2 D21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D21	2465 kg		
							2@ D21	4930 kg		

Calculation Weight Steel deck D2 D22										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9245	125.6	1498	1498	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
							D22	2280 kg		
							2@ D22	4560 kg		

Calculation Weight Steel deck D2 D23										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 19	9995	149.2	1923	1923	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D23	2769 kg		
							2@ D23	5538 kg		

Calculation Weight Steel deck D2 D24										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 19	5995	149.2	1154	1154	SM490YB		
2	RIB	U	320* 240* 8	5990	42.30	253	506	SM490YA		
							D24	1660 kg		
							2@ D24	3320 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D2 D25										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 19	9995	149.2	1923	1923	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D25	2769 kg		
							2@ D25	5538 kg		

Calculation Weight Steel deck D2 D26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9245	125.6	1498	1498	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
							D26	2280 kg		
							2@ D26	4560 kg		

Calculation Weight Steel deck D2 D27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D27	2465 kg		
							2@ D27	4930 kg		

Calculation Weight Steel deck D2 D28										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D28	2465 kg		
							2@ D28	4930 kg		

Calculation Weight Steel deck D2 D29										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		

## 材料計算書 Caluculation of Steel Weight

D29	2465 kg
2@ D29	4930 kg

Calculation Weight Steel deck D2 D30										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	7495	125.6	1214	1214	SM490YA		
2	RIB	U	320* 240* 8	7490	42.30	317	634	SM490YA		
							D30	1848 kg		
							2@ D30	3696 kg		

Calculation Weight Steel deck D2 D31										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D31	2465 kg		
							2@ D31	4930 kg		

Calculation Weight Steel deck D2 D32										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D32	2465 kg		
							2@ D32	4930 kg		

Calculation Weight Steel deck D2 D33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D33	2465 kg		
							2@ D33	4930 kg		

Calculation Weight Steel deck D2 D34										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9295	125.6	1506	1506	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	RIB	U	320* 240* 8	9290	42.30	393	786	SM490YA			
							D34	2292 kg			
							2@ D34	4584 kg			

Calculation Weight Steel deck D2 D35											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1290* 22	9995	172.7	2226	2226	SM490YB			
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA			
							D35	3072 kg			
							2@ D35	6144 kg			

Calculation Weight Steel deck D2 D36											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1290* 22	5995	172.7	1336	1336	SM490YB			
2	RIB	U	320* 240* 8	5990	42.30	253	506	SM490YA			
							D36	1842 kg			
							2@ D36	3684 kg			

Calculation Weight Steel deck D2 D37											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1290* 22	9995	172.7	2226	2226	SM490YB			
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA			
							D37	3072 kg			
							2@ D37	6144 kg			

Calculation Weight Steel deck D2 D38											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1290* 16	9245	125.6	1498	1498	SM490YA			
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA			
							D38	2280 kg			
							2@ D38	4560 kg			

Calculation Weight Steel deck D2 D39										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D39	2465 kg		
							2@ D39	4930 kg		

Calculation Weight Steel deck D2 D40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D40	2465 kg		
							2@ D40	4930 kg		

Calculation Weight Steel deck D2 D41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D41	2465 kg		
							2@ D41	4930 kg		

Calculation Weight Steel deck D2 D42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	7945	125.6	1287	1287	SM490YA		
2	RIB	U	320* 240* 8	7940	42.30	336	672	SM490YA		
							D42	1959 kg		
							2@ D42	3918 kg		

Calculation Weight Steel deck D2 D43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D43	2465 kg		
							2@ D43	4930 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D2 D44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D44	2465 kg		
							2@ D44	4930 kg		

Calculation Weight Steel deck D2 D45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D45	2465 kg		
							2@ D45	4930 kg		

Calculation Weight Steel deck D2 D46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9245	125.6	1498	1498	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
							D46	2280 kg		
							2@ D46	4560 kg		

Calculation Weight Steel deck D2 D47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 21	9995	164.8	2124	2124	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D47	2970 kg		
							2@ D47	5940 kg		

Calculation Weight Steel deck D2 D48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 21	5995	164.8	1275	1275	SM490YB		
2	RIB	U	320* 240* 8	5990	42.30	253	506	SM490YA		
							D48	1781 kg		



## 材料計算書 Calculation of Steel Weight

2@ D48	3562 kg
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Calculation Weight Steel deck D2 D49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 21	9995	164.8	2124	2124	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
D49							2970 kg			
2@ D49							5940 kg			

Calculation Weight Steel deck D2 D50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9245	125.6	1498	1498	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
D50							2280 kg			
2@ D50							4560 kg			

Calculation Weight Steel deck D2 D51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
D51							2465 kg			
2@ D51							4930 kg			

Calculation Weight Steel deck D2 D52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
D52							2465 kg			
2@ D52							4930 kg			

Calculation Weight Steel deck D2 D53										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		

## 材料計算書 Caluculation of Steel Weight

		D53	2465 kg
		2@ D53	4930 kg

Calculation Weight Steel deck D2 D54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	7945	125.6	1287	1287	SM490YA		
2	RIB	U	320* 240* 8	7940	42.30	336	672	SM490YA		
							D54	1959 kg		
							2@ D54	3918 kg		

Calculation Weight Steel deck D2 D55										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D55	2465 kg		
							2@ D55	4930 kg		

Calculation Weight Steel deck D2 D56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D56	2465 kg		
							2@ D56	4930 kg		

Calculation Weight Steel deck D2 D57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D57	2465 kg		
							2@ D57	4930 kg		

Calculation Weight Steel deck D2 D58										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	DECK	PL	1290* 16	9245	125.6	1498	1498	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
							D58	2280 kg		
							2@ D58	4560 kg		

Calculation Weight Steel deck D2 D59										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 20	9995	157.0	2024	2024	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D59	2870 kg		
							2@ D59	5740 kg		

Calculation Weight Steel deck D2 D60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 20	5995	157.0	1214	1214	SM490YB		
2	RIB	U	320* 240* 8	5990	42.30	253	506	SM490YA		
							D60	1720 kg		
							2@ D60	3440 kg		

Calculation Weight Steel deck D2 D61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 20	9995	157.0	2024	2024	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D61	2870 kg		
							2@ D61	5740 kg		

Calculation Weight Steel deck D2 D62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9245	125.6	1498	1498	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
							D62	2280 kg		
							2@ D62	4560 kg		

Calculation Weight Steel deck D2 D63										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D63	2465 kg		
							2@ D63	4930 kg		

Calculation Weight Steel deck D2 D64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D64	2465 kg		
							2@ D64	4930 kg		

Calculation Weight Steel deck D2 D65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D65	2465 kg		
							2@ D65	4930 kg		

Calculation Weight Steel deck D2 D66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	7945	125.6	1287	1287	SM490YA		
2	RIB	U	320* 240* 8	7940	42.30	336	672	SM490YA		
							D66	1959 kg		
							2@ D66	3918 kg		

Calculation Weight Steel deck D2 D67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D67	2465 kg		
							2@ D67	4930 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D2 D68										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D68	2465 kg		
							2@ D68	4930 kg		

Calculation Weight Steel deck D2 D69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D69	2465 kg		
							2@ D69	4930 kg		

Calculation Weight Steel deck D2 D70										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9245	125.6	1498	1498	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
							D70	2280 kg		
							2@ D70	4560 kg		

Calculation Weight Steel deck D2 D71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 25	9995	196.2	2529	2529	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
							D71	3375 kg		
							2@ D71	6750 kg		

Calculation Weight Steel deck D2 D72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 25	6745	196.2	1707	1707	SM490YB		
2	RIB	U	320* 240* 8	6740	42.30	285	570	SM490YA		

## 材料計算書 Caluculation of Steel Weight

D72	2277 kg
2@ D72	4554 kg

Calculation Weight Steel deck D2 D73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 25	9995	196.2	2529	2529	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
D73							3375 kg			
2@ D73							6750 kg			

Calculation Weight Steel deck D2 D74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
D74							2465 kg			
2@ D74							4930 kg			

Calculation Weight Steel deck D2 D75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
D75							2465 kg			
2@ D75							4930 kg			

Calculation Weight Steel deck D2 D76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
D76							2465 kg			
2@ D76							4930 kg			

Calculation Weight Steel deck D2 D77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA			
							D77				
							2465 kg				
							2@ D77				
							4930 kg				

Calculation Weight Steel deck D2 D78											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA			
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA			
							D78				
							2465 kg				
							2@ D78				
							4930 kg				

Calculation Weight Steel deck D2 D79											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA			
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA			
							D79				
							2465 kg				
							2@ D79				
							4930 kg				

Calculation Weight Steel deck D2 D80											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1290* 16	9995	125.6	1619	1619	SM490YA			
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA			
							D80				
							2465 kg				
							2@ D80				
							4930 kg				

Calculation Weight Steel deck D2 D81											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	1290* 16	11158	125.6	1807	1807	SM490YA			
2	RIB	U	320* 240* 8	11152	42.30	472	944	SM490YA			
							D81				
							2751 kg				
							2@ D81				
							5502 kg				

Calculation Weight Steel deck D2 D82										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	1290* 16	8335	125.6	1350	1350	SM490YA		
2	RIB	U	320* 240* 8	8182	42.30	346	692	SM490YA		
							D82	2042 kg		
							2@ D82	4084 kg		

Calculation Weight Steel deck D2 J01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J01	202 kg		
							2@ J01	404 kg		

Calculation Weight Steel deck D2 J02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J02	202 kg		
							2@ J02	404 kg		

Calculation Weight Steel deck D2 J03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		



## 材料計算書 Caluculation of Steel Weight

4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J03							202 kg			
2@ J03							404 kg			

Calculation Weight Steel deck D2 J04										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J04							202 kg			
2@ J04							404 kg			

Calculation Weight Steel deck D2 J05										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J05							202 kg			
2@ J05							404 kg			

Calculation Weight Steel deck D2 J06										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		

## 材料計算書 Calculation of Steel Weight

40	SPL	TCB	M 22* 70			0.523	21	S10T		
J06							202 kg			
2@ J06							404 kg			

Calculation Weight Steel deck D2 J07										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J07							202 kg			
2@ J07							404 kg			

Calculation Weight Steel deck D2 J08										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J08							202 kg			
2@ J08							404 kg			

Calculation Weight Steel deck D2 J10										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 5	170	39.25	2.04	4	SS400		
1	FILL	PL	305* 5	170	39.25	2.04	2	SS400		
16	SPL	TCB	M 22* 80			0.553	9	S10T		
48	SPL	HTB	M 22* 85			0.6	29	F10T		

## 材料計算書 Calculation of Steel Weight

4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J10							221 kg			
2@ J10							442 kg			

Calculation Weight Steel deck D2 J11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	920* 12	980	94.20	84.9	85	SM490YA		
2	SPL	PL	920* 19	270	149.2	37.1	74	SM490YB		
1	SPL	PL	920* 19	170	149.2	23.3	23	SM490YB		
24	SPL	TCB	M 22* 95			0.598	14	S10T		
72	SPL	HTB	M 22* 100			0.645	46	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 95			0.598	24	S10T		
J11							338 kg			
2@ J11							676 kg			

Calculation Weight Steel deck D2 J12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	920* 12	980	94.20	84.9	85	SM490YA		
2	SPL	PL	920* 19	270	149.2	37.1	74	SM490YB		
1	SPL	PL	920* 19	170	149.2	23.3	23	SM490YB		
24	SPL	TCB	M 22* 95			0.598	14	S10T		
72	SPL	HTB	M 22* 100			0.645	46	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 95			0.598	24	S10T		
J12							338 kg			
2@ J12							676 kg			

Calculation Weight Steel deck D2 J13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 5	170	39.25	2.04	4	SS400		
1	FILL	PL	305* 5	170	39.25	2.04	2	SS400		

## 材料計算書 Calculation of Steel Weight

16	SPL	TCB	M 22* 80			0.553	9	S10T		
48	SPL	HTB	M 22* 85			0.6	29	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J13							221 kg			
2@ J13							442 kg			

Calculation Weight Steel deck D2 J14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 6	170	47.10	2.44	5	SS400		
1	FILL	PL	305* 6	170	47.10	2.44	2	SS400		
16	SPL	TCB	M 22* 75			0.538	9	S10T		
48	SPL	HTB	M 22* 80			0.585	28	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J14							223 kg			
2@ J14							446 kg			

Calculation Weight Steel deck D2 J15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J15							202 kg			
2@ J15							404 kg			

Calculation Weight Steel deck D2 J16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J16							202 kg			
2@ J16							404 kg			

Calculation Weight Steel deck D2 J17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J17							202 kg			
2@ J17							404 kg			

Calculation Weight Steel deck D2 J18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J18							202 kg			
2@ J18							404 kg			

Calculation Weight Steel deck D2 J19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J19		202 kg	
							2@ J19		404 kg	

Calculation Weight Steel deck D2 J20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J20		202 kg	
							2@ J20		404 kg	

Calculation Weight Steel deck D2 J21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J21		202 kg	
							2@ J21		404 kg	

Calculation Weight Steel deck D2 J22										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 3.2	170	25.12	1.30	3	SS400		
1	FILL	PL	305* 3.2	170	25.12	1.30	1	SS400		
16	SPL	TCB	M 22* 75			0.538	9	S10T		
48	SPL	HTB	M 22* 80			0.585	28	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 3.2	380	25.12	2.86	6	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J22							215 kg			
2@ J22							430 kg			

Calculation Weight Steel deck D2 J23										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	980	78.50	59.2	59	SM490YA		
2	SPL	PL	770* 14	270	109.9	22.8	46	SM490YA		
1	SPL	PL	770* 14	170	109.9	14.4	14	SM490YA		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
60	SPL	HTB	M 22* 85			0.6	36	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J23							260 kg			
2@ J23							520 kg			

Calculation Weight Steel deck D2 J24										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	980	78.50	59.2	59	SM490YA		
2	SPL	PL	770* 14	270	109.9	22.8	46	SM490YA		
1	SPL	PL	770* 14	170	109.9	14.4	14	SM490YA		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
60	SPL	HTB	M 22* 85			0.6	36	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J24							260 kg			
2@ J24							520 kg			

Calculation Weight Steel deck D2 J25										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 3.2	170	25.12	1.30	3	SS400		
1	FILL	PL	305* 3.2	170	25.12	1.30	1	SS400		
16	SPL	TCB	M 22* 75			0.538	9	S10T		
48	SPL	HTB	M 22* 80			0.585	28	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 3.2	380	25.12	2.86	6	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J25							215 kg			
2@ J25							430 kg			

Calculation Weight Steel deck D2 J26										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J26							202 kg			
2@ J26							404 kg			

Calculation Weight Steel deck D2 J27										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J27							202 kg			
2@ J27							404 kg			

Calculation Weight Steel deck D2 J28										
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## 材料計算書 Caluculation of Steel Weight

Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J28	202 kg		
							2@ J28	404 kg		

Calculation Weight Steel deck D2 J29										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J29	202 kg		
							2@ J29	404 kg		

Calculation Weight Steel deck D2 J30										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J30	202 kg		
							2@ J30	404 kg		

Calculation Weight Steel deck D2 J31										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J31	202 kg		
							2@ J31	404 kg		

Calculation Weight Steel deck D2 J32										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J32	202 kg		
							2@ J32	404 kg		

Calculation Weight Steel deck D2 J33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J33	202 kg		
							2@ J33	404 kg		

Calculation Weight Steel deck D2 J34										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 6	170	47.10	2.44	5	SS400		
1	FILL	PL	305* 6	170	47.10	2.44	2	SS400		
16	SPL	TCB	M 22* 75			0.538	9	S10T		
48	SPL	HTB	M 22* 80			0.585	28	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J34							223 kg			
2@ J34							446 kg			

Calculation Weight Steel deck D2 J35										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	980	78.50	47.7	48	SM490YA		
2	SPL	PL	620* 14	270	109.9	18.4	37	SM490YA		
1	SPL	PL	620* 14	170	109.9	11.6	12	SM490YA		
16	SPL	TCB	M 22* 85			0.568	9	S10T		
48	SPL	HTB	M 22* 90			0.615	30	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J35							231 kg			
2@ J35							462 kg			

Calculation Weight Steel deck D2 J36										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	980	78.50	47.7	48	SM490YA		
2	SPL	PL	620* 14	270	109.9	18.4	37	SM490YA		
1	SPL	PL	620* 14	170	109.9	11.6	12	SM490YA		
16	SPL	TCB	M 22* 85			0.568	9	S10T		
48	SPL	HTB	M 22* 90			0.615	30	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J36							231 kg			
2@ J36							462 kg			

Calculation Weight Steel deck D2 J37										
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## 材料計算書 Caluculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 6	170	47.10	2.44	5	SS400		
1	FILL	PL	305* 6	170	47.10	2.44	2	SS400		
16	SPL	TCB	M 22* 75			0.538	9	S10T		
48	SPL	HTB	M 22* 80			0.585	28	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J37							223 kg			
2@ J37							446 kg			

### Calculation Weight Steel deck D2 J38

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J38							202 kg			
2@ J38							404 kg			

### Calculation Weight Steel deck D2 J39

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J39							202 kg			
2@ J39							404 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D2 J40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J40	202 kg		
							2@ J40	404 kg		

Calculation Weight Steel deck D2 J41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J41	202 kg		
							2@ J41	404 kg		

Calculation Weight Steel deck D2 J42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J42	202 kg		
							2@ J42	404 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D2 J43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J43							202 kg			
2@ J43							404 kg			

Calculation Weight Steel deck D2 J44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J44							202 kg			
2@ J44							404 kg			

Calculation Weight Steel deck D2 J45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J45							202 kg			
2@ J45							404 kg			

Calculation Weight Steel deck D2 J46										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 5	170	39.25	2.04	4	SS400		
1	FILL	PL	305* 5	170	39.25	2.04	2	SS400		
16	SPL	TCB	M 22* 75			0.538	9	S10T		
48	SPL	HTB	M 22* 80			0.585	28	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J46							220 kg			
2@ J46							440 kg			

### Calculation Weight Steel deck D2 J47

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	980	78.50	59.2	59	SM490YA		
2	SPL	PL	770* 14	270	109.9	22.8	46	SM490YA		
1	SPL	PL	770* 14	170	109.9	14.4	14	SM490YA		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
60	SPL	HTB	M 22* 85			0.6	36	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J47							260 kg			
2@ J47							520 kg			

### Calculation Weight Steel deck D2 J48

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	980	78.50	59.2	59	SM490YA		
2	SPL	PL	770* 14	270	109.9	22.8	46	SM490YA		
1	SPL	PL	770* 14	170	109.9	14.4	14	SM490YA		
20	SPL	TCB	M 22* 80			0.553	11	S10T		
60	SPL	HTB	M 22* 85			0.6	36	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J48							260 kg			
2@ J48							520 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck D2 J49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 5	170	39.25	2.04	4	SS400		
1	FILL	PL	305* 5	170	39.25	2.04	2	SS400		
16	SPL	TCB	M 22* 75			0.538	9	S10T		
48	SPL	HTB	M 22* 80			0.585	28	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
							J49	220 kg		
							2@ J49	440 kg		

Calculation Weight Steel deck D2 J50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J50	202 kg		
							2@ J50	404 kg		

Calculation Weight Steel deck D2 J51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		



## 材料計算書 Calculation of Steel Weight

J51	202 kg
2@ J51	404 kg

Calculation Weight Steel deck D2 J52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J52	202 kg		
							2@ J52	404 kg		

Calculation Weight Steel deck D2 J53										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J53	202 kg		
							2@ J53	404 kg		

Calculation Weight Steel deck D2 J54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J54	202 kg		

## 材料計算書 Calculation of Steel Weight

2@ J54	404 kg
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Calculation Weight Steel deck D2 J55										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J55							202 kg			
2@ J55							404 kg			

Calculation Weight Steel deck D2 J56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J56							202 kg			
2@ J56							404 kg			

Calculation Weight Steel deck D2 J57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J57							202 kg			
2@ J57							404 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck D2 J58										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 4	170	31.40	1.63	3	SS400		
1	FILL	PL	305* 4	170	31.40	1.63	2	SS400		
16	SPL	TCB	M 22* 75			0.538	9	S10T		
48	SPL	HTB	M 22* 80			0.585	28	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 4	380	31.40	3.58	7	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
							J58	217 kg		
							2@ J58	434 kg		

Calculation Weight Steel deck D2 J59										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	980	78.50	47.7	48	SM490YA		
2	SPL	PL	620* 14	270	109.9	18.4	37	SM490YA		
1	SPL	PL	620* 14	170	109.9	11.6	12	SM490YA		
16	SPL	TCB	M 22* 80			0.553	9	S10T		
48	SPL	HTB	M 22* 85			0.6	29	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
							J59	229 kg		
							2@ J59	458 kg		

Calculation Weight Steel deck D2 J60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	980	78.50	47.7	48	SM490YA		
2	SPL	PL	620* 14	270	109.9	18.4	37	SM490YA		
1	SPL	PL	620* 14	170	109.9	11.6	12	SM490YA		
16	SPL	TCB	M 22* 80			0.553	9	S10T		
48	SPL	HTB	M 22* 85			0.6	29	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		

## 材料計算書 Caluculation of Steel Weight

J60	229 kg
2@ J60	458 kg

Calculation Weight Steel deck D2 J61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 4	170	31.40	1.63	3	SS400		
1	FILL	PL	305* 4	170	31.40	1.63	2	SS400		
16	SPL	TCB	M 22* 75			0.538	9	S10T		
48	SPL	HTB	M 22* 80			0.585	28	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 4	380	31.40	3.58	7	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J61							217 kg			
2@ J61							434 kg			

Calculation Weight Steel deck D2 J62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J62							202 kg			
2@ J62							404 kg			

Calculation Weight Steel deck D2 J63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		

## 材料計算書 Calculation of Steel Weight

40	SPL	TCB	M 22* 70			0.523	21	S10T		
J63							202 kg			
2@ J63							404 kg			

Calculation Weight Steel deck D2 J64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J64							202 kg			
2@ J64							404 kg			

Calculation Weight Steel deck D2 J65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J65							202 kg			
2@ J65							404 kg			

Calculation Weight Steel deck D2 J66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		

## 材料計算書 Caluculation of Steel Weight

J66	202 kg
2@ J66	404 kg

Calculation Weight Steel deck D2 J67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J67							202 kg			
2@ J67							404 kg			

Calculation Weight Steel deck D2 J68										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J68							202 kg			
2@ J68							404 kg			

Calculation Weight Steel deck D2 J69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		

## 材料計算書 Caluculation of Steel Weight

J69	202 kg
2@ J69	404 kg

Calculation Weight Steel deck D2 J70										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 9	170	70.65	3.66	7	SS400		
1	FILL	PL	305* 9	170	70.65	3.66	4	SS400		
16	SPL	TCB	M 22* 80			0.553	9	S10T		
48	SPL	HTB	M 22* 85			0.6	29	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 9	380	70.65	8.05	16	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J70							233 kg			
2@ J70							466 kg			

Calculation Weight Steel deck D2 J71										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	920* 12	980	94.20	84.9	85	SM490YA		
2	SPL	PL	920* 19	270	149.2	37.1	74	SM490YB		
1	SPL	PL	920* 19	170	149.2	23.3	23	SM490YB		
24	SPL	TCB	M 22* 95			0.598	14	S10T		
72	SPL	HTB	M 22* 100			0.645	46	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 95			0.598	24	S10T		
J71							338 kg			
2@ J71							676 kg			

Calculation Weight Steel deck D2 J72										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	920* 12	980	94.20	84.9	85	SM490YA		
2	SPL	PL	920* 19	270	149.2	37.1	74	SM490YB		
1	SPL	PL	920* 19	170	149.2	23.3	23	SM490YB		
24	SPL	TCB	M 22* 95			0.598	14	S10T		
72	SPL	HTB	M 22* 100			0.645	46	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		

## 材料計算書 Calculation of Steel Weight

40	SPL	TCB	M 22* 95			0.598	24	S10T		
J72							338 kg			
2@ J72							676 kg			

Calculation Weight Steel deck D2 J73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 9	170	70.65	3.66	7	SS400		
1	FILL	PL	305* 9	170	70.65	3.66	4	SS400		
16	SPL	TCB	M 22* 80			0.553	9	S10T		
48	SPL	HTB	M 22* 85			0.6	29	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 9	380	70.65	8.05	16	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J73							233 kg			
2@ J73							466 kg			

Calculation Weight Steel deck D2 J74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J74							202 kg			
2@ J74							404 kg			

Calculation Weight Steel deck D2 J75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		



## 材料計算書 Calculation of Steel Weight

48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J75							202 kg			
2@ J75							404 kg			

Calculation Weight Steel deck D2 J76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J76							202 kg			
2@ J76							404 kg			

Calculation Weight Steel deck D2 J77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J77							202 kg			
2@ J77							404 kg			

Calculation Weight Steel deck D2 J78										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		

## 材料計算書 Caluculation of Steel Weight

4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J78							202 kg			
2@ J78							404 kg			

Calculation Weight Steel deck D2 J79										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J79							202 kg			
2@ J79							404 kg			

Calculation Weight Steel deck D2 J80										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J80							202 kg			
2@ J80							404 kg			

Calculation Weight Steel deck D2 J81										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
16	SPL	TCB	M 22* 70			0.523	8	S10T		
48	SPL	HTB	M 22* 75			0.57	27	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		

## 材料計算書 Calculation of Steel Weight

40	SPL	TCB	M 22* 70			0.523	21	S10T		
J81							202 kg			
2@ J81							404 kg			
D2							439206 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D3 D01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	5141* 16	9598	125.6	6197	6197	SM490YA		
2	RIB	U	320* 240* 8	9446	42.30	400	800	SM490YA		
11	RIB	BULB	230* 11	9445	25.10	237	2607	SM490YA		
D01							9604 kg			

Calculation Weight Steel deck D3 D02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	4855* 16	10095	125.6	6156	6156	SM490YA		
2	RIB	U	320* 240* 8	10092	42.30	427	854	SM490YA		
11	RIB	BULB	230* 11	10091	25.10	253	2783	SM490YA		
D02							9793 kg			

Calculation Weight Steel deck D3 D03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	4348* 16	9995	125.6	5459	5459	SM490YA		
2	RIB	U	320* 240* 8	9993	42.30	423	846	SM490YA		
8	RIB	BULB	230* 11	1245	25.10	31.2	250	SM490YA		
3	RIB	BULB	230* 11	9991	25.10	251	753	SM490YA		
6	RIB	BULB	230* 11	8745	25.10	219	1314	SM490YA		
D03							8622 kg			

Calculation Weight Steel deck D3 D04										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3845* 16	9995	125.6	4827	4827	SM490YA		
2	RIB	U	320* 240* 8	9992	42.30	423	846	SM490YA		
9	RIB	BULB	230* 11	9991	25.10	251	2259	SM490YA		
D04							7932 kg			

Calculation Weight Steel deck D3 D05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3342* 16	9995	125.6	4195	4195	SM490YA		
2	RIB	U	320* 240* 8	9991	42.30	423	846	SM490YA		

## 材料計算書 Calculation of Steel Weight

9	RIB	BULB	230* 11	9990	25.10	251	2259	SM490YA		
D05							7300 kg			

Calculation Weight Steel deck D3 D06										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2951* 16	9995	125.6	3705	3705	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
9	RIB	BULB	230* 11	9990	25.10	251	2259	SM490YA		
D06							6810 kg			

Calculation Weight Steel deck D3 D07										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
4	RIB	BULB	230* 11	1245	25.10	31.2	125	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D07							5917 kg			

Calculation Weight Steel deck D3 D08										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D08							5792 kg			

Calculation Weight Steel deck D3 D09										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D09							5792 kg			

Calculation Weight Steel deck D3 D10										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 22	9995	172.7	5076	5076	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D10							7177 kg			

Calculation Weight Steel deck D3 D11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 27	7495	212.0	4672	4672	SM490YB		
2	RIB	U	320* 240* 8	7490	42.30	317	634	SM490YA		
5	RIB	BULB	230* 11	7490	25.10	188	940	SM490YA		
D11							6246 kg			

Calculation Weight Steel deck D3 D12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 27	6745	212.0	4204	4204	SM490YB		
2	RIB	U	320* 240* 8	6740	42.30	285	570	SM490YA		
5	RIB	BULB	230* 11	6740	25.10	169	845	SM490YA		
D12							5619 kg			

Calculation Weight Steel deck D3 D13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 27	9995	212.0	6231	6231	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D13							8332 kg			

Calculation Weight Steel deck D3 D14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 22	9245	172.7	4694	4694	SM490YB		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
5	RIB	BULB	230* 11	9240	25.10	232	1160	SM490YA		
D14							6636 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D3 D15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D15							5792 kg			

Calculation Weight Steel deck D3 D16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D16							5792 kg			

Calculation Weight Steel deck D3 D17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D17							5792 kg			

Calculation Weight Steel deck D3 D18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	7495	125.6	2768	2768	SM490YA		
2	RIB	U	320* 240* 8	7490	42.30	317	634	SM490YA		
5	RIB	BULB	230* 11	7490	25.10	188	940	SM490YA		
D18							4342 kg			

Calculation Weight Steel deck D3 D19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		

## 材料計算書 Calculation of Steel Weight

D19	5792 kg
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Calculation Weight Steel deck D3 D20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D20										
5792 kg										

Calculation Weight Steel deck D3 D21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D21										
5792 kg										

Calculation Weight Steel deck D3 D22										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9245	125.6	3414	3414	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
5	RIB	BULB	230* 11	9240	25.10	232	1160	SM490YA		
D22										
5356 kg										

Calculation Weight Steel deck D3 D23										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 19	9995	149.2	4385	4385	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D23										
6486 kg										

Calculation Weight Steel deck D3 D24										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 19	5995	149.2	2630	2630	SM490YB		
2	RIB	U	320* 240* 8	5990	42.30	253	506	SM490YA		



## 材料計算書 Calculation of Steel Weight

5	RIB	BULB	230* 11	5990	25.10	150	750	SM490YA		
D24										
3886 kg										

Calculation Weight Steel deck D3 D25										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 19	9995	149.2	4385	4385	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D25										
6486 kg										

Calculation Weight Steel deck D3 D26										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9245	125.6	3414	3414	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
5	RIB	BULB	230* 11	9240	25.10	232	1160	SM490YA		
D26										
5356 kg										

Calculation Weight Steel deck D3 D27										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D27										
5792 kg										

Calculation Weight Steel deck D3 D28										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D28										
5792 kg										

Calculation Weight Steel deck D3 D29										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D29	5792 kg		

Calculation Weight Steel deck D3 D30										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	7495	125.6	2768	2768	SM490YA		
2	RIB	U	320* 240* 8	7490	42.30	317	634	SM490YA		
5	RIB	BULB	230* 11	7490	25.10	188	940	SM490YA		
							D30	4342 kg		

Calculation Weight Steel deck D3 D31										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D31	5792 kg		

Calculation Weight Steel deck D3 D32										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D32	5792 kg		

Calculation Weight Steel deck D3 D33										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D33	5792 kg		

Calculation Weight Steel deck D3 D34										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9245	125.6	3414	3414	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
5	RIB	BULB	230* 11	9240	25.10	232	1160	SM490YA		
D34							5356 kg			

Calculation Weight Steel deck D3 D35										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 22	9995	172.7	5076	5076	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D35							7177 kg			

Calculation Weight Steel deck D3 D36										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 22	5995	172.7	3045	3045	SM490YB		
2	RIB	U	320* 240* 8	5990	42.30	253	506	SM490YA		
5	RIB	BULB	230* 11	5990	25.10	150	750	SM490YA		
D36							4301 kg			

Calculation Weight Steel deck D3 D37										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 22	9995	172.7	5076	5076	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D37							7177 kg			

Calculation Weight Steel deck D3 D38										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9245	125.6	3414	3414	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
5	RIB	BULB	230* 11	9240	25.10	232	1160	SM490YA		
D38							5356 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D3 D39										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D39							5792 kg			

Calculation Weight Steel deck D3 D40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D40							5792 kg			

Calculation Weight Steel deck D3 D41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D41							5792 kg			

Calculation Weight Steel deck D3 D42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	7495	125.6	2768	2768	SM490YA		
2	RIB	U	320* 240* 8	7490	42.30	317	634	SM490YA		
5	RIB	BULB	230* 11	7490	25.10	188	940	SM490YA		
D42							4342 kg			

Calculation Weight Steel deck D3 D43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		

## 材料計算書 Caluculation of Steel Weight

D43		5792 kg
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Calculation Weight Steel deck D3 D44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D44		5792 kg								

Calculation Weight Steel deck D3 D45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D45		5792 kg								

Calculation Weight Steel deck D3 D46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9245	125.6	3414	3414	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
5	RIB	BULB	230* 11	9240	25.10	232	1160	SM490YA		
D46		5356 kg								

Calculation Weight Steel deck D3 D47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 21	9995	164.8	4843	4843	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D47		6944 kg								

Calculation Weight Steel deck D3 D48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 21	5995	164.8	2905	2905	SM490YB		

## 材料計算書 Calculation of Steel Weight

2	RIB	U	320* 240* 8	5990	42.30	253	506	SM490YA		
5	RIB	BULB	230* 11	5990	25.10	150	750	SM490YA		
D48							4161 kg			

Calculation Weight Steel deck D3 D49										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 21	9995	164.8	4843	4843	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D49							6944 kg			

Calculation Weight Steel deck D3 D50										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9245	125.6	3414	3414	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
5	RIB	BULB	230* 11	9240	25.10	232	1160	SM490YA		
D50							5356 kg			

Calculation Weight Steel deck D3 D51										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D51							5792 kg			

Calculation Weight Steel deck D3 D52										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D52							5792 kg			

Calculation Weight Steel deck D3 D53										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D53							5792 kg			

Calculation Weight Steel deck D3 D54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	7495	125.6	2768	2768	SM490YA		
2	RIB	U	320* 240* 8	7490	42.30	317	634	SM490YA		
5	RIB	BULB	230* 11	7490	25.10	188	940	SM490YA		
D54							4342 kg			

Calculation Weight Steel deck D3 D55										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D55							5792 kg			

Calculation Weight Steel deck D3 D56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D56							5792 kg			

Calculation Weight Steel deck D3 D57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D57							5792 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D3 D58										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9245	125.6	3414	3414	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
5	RIB	BULB	230* 11	9240	25.10	232	1160	SM490YA		
D58							5356 kg			

Calculation Weight Steel deck D3 D59										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 20	9995	157.0	4614	4614	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D59							6715 kg			

Calculation Weight Steel deck D3 D60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 20	5995	157.0	2768	2768	SM490YB		
2	RIB	U	320* 240* 8	5990	42.30	253	506	SM490YA		
5	RIB	BULB	230* 11	5990	25.10	150	750	SM490YA		
D60							4024 kg			

Calculation Weight Steel deck D3 D61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 20	9995	157.0	4614	4614	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D61							6715 kg			

Calculation Weight Steel deck D3 D62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9245	125.6	3414	3414	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
5	RIB	BULB	230* 11	9240	25.10	232	1160	SM490YA		



## 材料計算書 Calculation of Steel Weight

D62	5356 kg
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Calculation Weight Steel deck D3 D63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D63										
5792 kg										

Calculation Weight Steel deck D3 D64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D64										
5792 kg										

Calculation Weight Steel deck D3 D65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D65										
5792 kg										

Calculation Weight Steel deck D3 D66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	7495	125.6	2768	2768	SM490YA		
2	RIB	U	320* 240* 8	7490	42.30	317	634	SM490YA		
5	RIB	BULB	230* 11	7490	25.10	188	940	SM490YA		
D66										
4342 kg										

Calculation Weight Steel deck D3 D67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		

## 材料計算書 Calculation of Steel Weight

5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D67										
5792 kg										

Calculation Weight Steel deck D3 D68										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D68										
5792 kg										

Calculation Weight Steel deck D3 D69										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D69										
5792 kg										

Calculation Weight Steel deck D3 D70										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9245	125.6	3414	3414	SM490YA		
2	RIB	U	320* 240* 8	9240	42.30	391	782	SM490YA		
5	RIB	BULB	230* 11	9240	25.10	232	1160	SM490YA		
D70										
5356 kg										

Calculation Weight Steel deck D3 D71										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 25	9995	196.2	5766	5766	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
D71										
7867 kg										

Calculation Weight Steel deck D3 D72										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 25	6745	196.2	3891	3891	SM490YB		
2	RIB	U	320* 240* 8	6740	42.30	285	570	SM490YA		
5	RIB	BULB	230* 11	6740	25.10	169	845	SM490YA		
							D72	5306 kg		

Calculation Weight Steel deck D3 D73										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 25	9995	196.2	5766	5766	SM490YB		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D73	7867 kg		

Calculation Weight Steel deck D3 D74										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D74	5792 kg		

Calculation Weight Steel deck D3 D75										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D75	5792 kg		

Calculation Weight Steel deck D3 D76										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D76	5792 kg		

Calculation Weight Steel deck D3 D77										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D77	5792 kg		

### Calculation Weight Steel deck D3 D78

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D78	5792 kg		

### Calculation Weight Steel deck D3 D79

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D79	5792 kg		

### Calculation Weight Steel deck D3 D80

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	9995	125.6	3691	3691	SM490YA		
2	RIB	U	320* 240* 8	9990	42.30	423	846	SM490YA		
5	RIB	BULB	230* 11	9990	25.10	251	1255	SM490YA		
							D80	5792 kg		

### Calculation Weight Steel deck D3 D81

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	11158	125.6	4120	4120	SM490YA		
2	RIB	U	320* 240* 8	11152	42.30	472	944	SM490YA		
5	RIB	BULB	230* 11	11152	25.10	280	1400	SM490YA		
							D81	6464 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D3 D82										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	2940* 16	8336	125.6	3078	3078	SM490YA		
2	RIB	U	320* 240* 8	8182	42.30	346	692	SM490YA		
5	RIB	BULB	230* 11	8182	25.10	205	1025	SM490YA		
							D82	4795 kg		

Calculation Weight Steel deck D3 J01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	4545	70.65	151	151	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	250	70.65	8.30	17	SM490YA		
10	SPL	PL	470* 9	270	70.65	8.97	90	SM490YA		
252	SPL	TCB	M 22* 70			0.523	132	S10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J01	501 kg		

Calculation Weight Steel deck D3 J02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	4037	70.65	134	134	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	240	70.65	7.97	16	SM490YA		
10	SPL	PL	470* 9	230	70.65	7.64	76	SM490YA		
252	SPL	TCB	M 22* 70			0.523	132	S10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J02	469 kg		

Calculation Weight Steel deck D3 J03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3535	70.65	155	155	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
2	SPL	PL	620* 9	230	70.65	10.1	20	SM490YA		
8	SPL	PL	620* 9	230	70.65	10.1	81	SM490YA		

## 材料計算書 Calculation of Steel Weight

288	SPL	TCB	M 22* 70			0.523	151	S10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J03							524 kg			

Calculation Weight Steel deck D3 J04										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3032	70.65	133	133	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
2	SPL	PL	620* 9	220	70.65	9.64	19	SM490YA		
8	SPL	PL	620* 9	170	70.65	7.45	60	SM490YA		
224	SPL	TCB	M 22* 70			0.523	117	S10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J04							446 kg			

Calculation Weight Steel deck D3 J05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 9	2640	70.65	144	144	SM490YA		
2	SPL	PL	770* 13	270	102.0	21.2	42	SM490YA		
2	SPL	PL	770* 13	220	102.0	17.3	35	SM490YA		
8	SPL	PL	770* 13	80	102.0	6.28	50	SM490YA		
200	SPL	TCB	M 22* 75			0.538	108	S10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J05							472 kg			

Calculation Weight Steel deck D3 J06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 9	2630	70.65	143	143	SM490YA		
2	SPL	PL	770* 13	270	102.0	21.2	42	SM490YA		
2	SPL	PL	770* 13	230	102.0	18.1	36	SM490YA		
8	SPL	PL	770* 13	80	102.0	6.28	50	SM490YA		
200	SPL	TCB	M 22* 75			0.538	108	S10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		

## 材料計算書 Calculation of Steel Weight

J06	472 kg
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Calculation Weight Steel deck D3 J07										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J07	329 kg		

Calculation Weight Steel deck D3 J08										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J08	329 kg		

Calculation Weight Steel deck D3 J09										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 6	270	47.10	2.92	6	SS400		
2	FILL	PL	230* 6	230	47.10	2.49	5	SS400		
4	FILL	PL	230* 6	290	47.10	3.14	13	SS400		
108	SPL	TCB	M 22* 75			0.538	58	S10T		
36	SPL	HTB	M 22* 80			0.585	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J09							367 kg			

Calculation Weight Steel deck D3 J10										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 5	270	39.25	2.44	5	SS400		
2	FILL	PL	230* 5	230	39.25	2.08	4	SS400		
4	FILL	PL	230* 5	290	39.25	2.62	10	SS400		
108	SPL	TCB	M 22* 80			0.553	60	S10T		
36	SPL	HTB	M 22* 85			0.6	22	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J10							363 kg			

Calculation Weight Steel deck D3 J11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	920* 13	2630	102.0	247	247	SM490YA		
2	SPL	PL	920* 19	270	149.2	37.1	74	SM490YB		
2	SPL	PL	920* 19	230	149.2	31.6	63	SM490YB		
4	SPL	PL	920* 19	290	149.2	39.8	159	SM490YB		
216	SPL	TCB	M 22* 95			0.598	129	S10T		
72	SPL	HTB	M 22* 100			0.645	46	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 95			0.598	24	S10T		
J11							814 kg			

Calculation Weight Steel deck D3 J12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	920* 13	2630	102.0	247	247	SM490YA		
2	SPL	PL	920* 19	270	149.2	37.1	74	SM490YB		
2	SPL	PL	920* 19	230	149.2	31.6	63	SM490YB		



## 材料計算書 Calculation of Steel Weight

4	SPL	PL	920* 19	290	149.2	39.8	159	SM490YB		
216	SPL	TCB	M 22* 95			0.598	129	S10T		
72	SPL	HTB	M 22* 100			0.645	46	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 95			0.598	24	S10T		
J12										
814 kg										

Calculation Weight Steel deck D3 J13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 5	270	39.25	2.44	5	SS400		
2	FILL	PL	230* 5	230	39.25	2.08	4	SS400		
4	FILL	PL	230* 5	290	39.25	2.62	10	SS400		
108	SPL	TCB	M 22* 80			0.553	60	S10T		
36	SPL	HTB	M 22* 85			0.6	22	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J13										
363 kg										

Calculation Weight Steel deck D3 J14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 6	270	47.10	2.92	6	SS400		
2	FILL	PL	230* 6	230	47.10	2.49	5	SS400		
4	FILL	PL	230* 6	290	47.10	3.14	13	SS400		
108	SPL	TCB	M 22* 75			0.538	58	S10T		
36	SPL	HTB	M 22* 80			0.585	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J14										
367 kg										

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D3 J15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J15							329 kg			

Calculation Weight Steel deck D3 J16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J16							329 kg			

Calculation Weight Steel deck D3 J17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J17							329 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D3 J18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J18			
							329 kg			

Calculation Weight Steel deck D3 J19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J19			
							329 kg			

Calculation Weight Steel deck D3 J20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J20			
							329 kg			

Calculation Weight Steel deck D3 J21										
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## 材料計算書 Caluculation of Steel Weight

Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J21							329 kg			

Calculation Weight Steel deck D3 J22										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 3.2	270	25.12	1.56	3	SS400		
2	FILL	PL	230* 3.2	230	25.12	1.33	3	SS400		
4	FILL	PL	230* 3.2	290	25.12	1.68	7	SS400		
108	SPL	TCB	M 22* 75			0.538	58	S10T		
36	SPL	HTB	M 22* 80			0.585	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 3.2	380	25.12	2.86	6	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J22							351 kg			

Calculation Weight Steel deck D3 J23										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	2630	70.65	115	115	SM490YA		
2	SPL	PL	620* 13	270	102.0	17.1	34	SM490YA		
2	SPL	PL	620* 13	230	102.0	14.5	29	SM490YA		
4	SPL	PL	620* 13	290	102.0	18.3	73	SM490YA		
144	SPL	TCB	M 22* 80			0.553	80	S10T		
48	SPL	HTB	M 22* 85			0.6	29	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		

## 材料計算書 Caluculation of Steel Weight

J23	454 kg
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Calculation Weight Steel deck D3 J24										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	2630	70.65	115	115	SM490YA		
2	SPL	PL	620* 13	270	102.0	17.1	34	SM490YA		
2	SPL	PL	620* 13	230	102.0	14.5	29	SM490YA		
4	SPL	PL	620* 13	290	102.0	18.3	73	SM490YA		
144	SPL	TCB	M 22* 80			0.553	80	S10T		
48	SPL	HTB	M 22* 85			0.6	29	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
							J24	454 kg		

Calculation Weight Steel deck D3 J25										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 3.2	270	25.12	1.56	3	SS400		
2	FILL	PL	230* 3.2	230	25.12	1.33	3	SS400		
4	FILL	PL	230* 3.2	290	25.12	1.68	7	SS400		
108	SPL	TCB	M 22* 75			0.538	58	S10T		
36	SPL	HTB	M 22* 80			0.585	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 3.2	380	25.12	2.86	6	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
							J25	351 kg		

Calculation Weight Steel deck D3 J26										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		

## 材料計算書 Calculation of Steel Weight

4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J26							329 kg			

Calculation Weight Steel deck D3 J27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J27							329 kg			

Calculation Weight Steel deck D3 J28										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J28							329 kg			

Calculation Weight Steel deck D3 J29										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		

## 材料計算書 Calculation of Steel Weight

40	SPL	TCB	M 22* 70			0.523	21	S10T		
J29						329 kg				

Calculation Weight Steel deck D3 J30										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J30						329 kg				

Calculation Weight Steel deck D3 J31										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J31						329 kg				

Calculation Weight Steel deck D3 J32										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		

## 材料計算書 Calculation of Steel Weight

J32	329 kg
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Calculation Weight Steel deck D3 J33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J33							329 kg			

Calculation Weight Steel deck D3 J34										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 6	270	47.10	2.92	6	SS400		
2	FILL	PL	230* 6	230	47.10	2.49	5	SS400		
4	FILL	PL	230* 6	290	47.10	3.14	13	SS400		
108	SPL	TCB	M 22* 75			0.538	58	S10T		
36	SPL	HTB	M 22* 80			0.585	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J34							367 kg			

Calculation Weight Steel deck D3 J35										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	2630	78.50	159	159	SM490YA		
2	SPL	PL	770* 15	270	117.8	24.5	49	SM490YA		
2	SPL	PL	770* 15	230	117.8	20.9	42	SM490YA		
4	SPL	PL	770* 15	290	117.8	26.3	105	SM490YA		
180	SPL	TCB	M 22* 85			0.568	102	S10T		



## 材料計算書 Calculation of Steel Weight

60	SPL	HTB	M 22* 90			0.615	37	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J35							589 kg			

Calculation Weight Steel deck D3 J36										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	2630	78.50	159	159	SM490YA		
2	SPL	PL	770* 15	270	117.8	24.5	49	SM490YA		
2	SPL	PL	770* 15	230	117.8	20.9	42	SM490YA		
4	SPL	PL	770* 15	290	117.8	26.3	105	SM490YA		
180	SPL	TCB	M 22* 85			0.568	102	S10T		
60	SPL	HTB	M 22* 90			0.615	37	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J36							589 kg			

Calculation Weight Steel deck D3 J37										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 6	270	47.10	2.92	6	SS400		
2	FILL	PL	230* 6	230	47.10	2.49	5	SS400		
4	FILL	PL	230* 6	290	47.10	3.14	13	SS400		
108	SPL	TCB	M 22* 75			0.538	58	S10T		
36	SPL	HTB	M 22* 80			0.585	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J37							367 kg			

Calculation Weight Steel deck D3 J38										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J38										
								329 kg		

Calculation Weight Steel deck D3 J39										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J39										
								329 kg		

Calculation Weight Steel deck D3 J40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J40										
								329 kg		

Calculation Weight Steel deck D3 J41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		

## 材料計算書 Calculation of Steel Weight

4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J41										
329 kg										

Calculation Weight Steel deck D3 J42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J42										
329 kg										

Calculation Weight Steel deck D3 J43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J43										
329 kg										

Calculation Weight Steel deck D3 J44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		

## 材料計算書 Calculation of Steel Weight

108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J44							329 kg			

Calculation Weight Steel deck D3 J45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J45							329 kg			

Calculation Weight Steel deck D3 J46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 5	270	39.25	2.44	5	SS400		
2	FILL	PL	230* 5	230	39.25	2.08	4	SS400		
4	FILL	PL	230* 5	290	39.25	2.62	10	SS400		
108	SPL	TCB	M 22* 75			0.538	58	S10T		
36	SPL	HTB	M 22* 80			0.585	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J46							360 kg			

Calculation Weight Steel deck D3 J47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	2630	78.50	159	159	SM490YA		

### 材料計算書 Calculation of Steel Weight

2	SPL	PL	770* 15	270	117.8	24.5	49	SM490YA		
2	SPL	PL	770* 15	230	117.8	20.9	42	SM490YA		
4	SPL	PL	770* 15	290	117.8	26.3	105	SM490YA		
180	SPL	TCB	M 22* 85			0.568	102	S10T		
60	SPL	HTB	M 22* 90			0.615	37	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J47							589 kg			

Calculation Weight Steel deck D3 J48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	2630	78.50	159	159	SM490YA		
2	SPL	PL	770* 15	270	117.8	24.5	49	SM490YA		
2	SPL	PL	770* 15	230	117.8	20.9	42	SM490YA		
4	SPL	PL	770* 15	290	117.8	26.3	105	SM490YA		
180	SPL	TCB	M 22* 85			0.568	102	S10T		
60	SPL	HTB	M 22* 90			0.615	37	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J48							589 kg			

Calculation Weight Steel deck D3 J49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 5	270	39.25	2.44	5	SS400		
2	FILL	PL	230* 5	230	39.25	2.08	4	SS400		
4	FILL	PL	230* 5	290	39.25	2.62	10	SS400		
108	SPL	TCB	M 22* 75			0.538	58	S10T		
36	SPL	HTB	M 22* 80			0.585	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J49							360 kg			

Calculation Weight Steel deck D3 J50										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J50							329 kg			

Calculation Weight Steel deck D3 J51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J51							329 kg			

Calculation Weight Steel deck D3 J52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J52							329 kg			

Calculation Weight Steel deck D3 J53										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J53							329 kg			

Calculation Weight Steel deck D3 J54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J54							329 kg			

Calculation Weight Steel deck D3 J55										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J55							329 kg			

Calculation Weight Steel deck D3 J56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J56										
329 kg										

Calculation Weight Steel deck D3 J57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J57										
329 kg										

Calculation Weight Steel deck D3 J58										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 4	270	31.40	1.95	4	SS400		
2	FILL	PL	230* 4	230	31.40	1.66	3	SS400		
4	FILL	PL	230* 4	290	31.40	2.09	8	SS400		
108	SPL	TCB	M 22* 75			0.538	58	S10T		
36	SPL	HTB	M 22* 80			0.585	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 4	380	31.40	3.58	7	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J58										
354 kg										



## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck D3 J59										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	2630	70.65	115	115	SM490YA		
2	SPL	PL	620* 13	270	102.0	17.1	34	SM490YA		
2	SPL	PL	620* 13	230	102.0	14.5	29	SM490YA		
4	SPL	PL	620* 13	290	102.0	18.3	73	SM490YA		
144	SPL	TCB	M 22* 80			0.553	80	S10T		
48	SPL	HTB	M 22* 85			0.6	29	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
							J59	454 kg		

Calculation Weight Steel deck D3 J60										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	2630	70.65	115	115	SM490YA		
2	SPL	PL	620* 13	270	102.0	17.1	34	SM490YA		
2	SPL	PL	620* 13	230	102.0	14.5	29	SM490YA		
4	SPL	PL	620* 13	290	102.0	18.3	73	SM490YA		
144	SPL	TCB	M 22* 80			0.553	80	S10T		
48	SPL	HTB	M 22* 85			0.6	29	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
							J60	454 kg		

Calculation Weight Steel deck D3 J61										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 4	270	31.40	1.95	4	SS400		
2	FILL	PL	230* 4	230	31.40	1.66	3	SS400		
4	FILL	PL	230* 4	290	31.40	2.09	8	SS400		
108	SPL	TCB	M 22* 75			0.538	58	S10T		
36	SPL	HTB	M 22* 80			0.585	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 4	380	31.40	3.58	7	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		

## 材料計算書 Calculation of Steel Weight

J61	354 kg
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Calculation Weight Steel deck D3 J62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J62							329 kg			

Calculation Weight Steel deck D3 J63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J63							329 kg			

Calculation Weight Steel deck D3 J64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		

## 材料計算書 Calculation of Steel Weight

J64	329 kg
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Calculation Weight Steel deck D3 J65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J65	329 kg		

Calculation Weight Steel deck D3 J66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J66	329 kg		

Calculation Weight Steel deck D3 J67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J67	329 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck D3 J68										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J68							329 kg			

Calculation Weight Steel deck D3 J69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J69							329 kg			

Calculation Weight Steel deck D3 J70										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 9	270	70.65	4.39	9	SS400		
2	FILL	PL	230* 9	230	70.65	3.74	7	SS400		
4	FILL	PL	230* 9	290	70.65	4.71	19	SS400		
108	SPL	TCB	M 22* 80			0.553	60	S10T		
36	SPL	HTB	M 22* 85			0.6	22	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 9	380	70.65	8.05	16	SS400		

## 材料計算書 Calculation of Steel Weight

40	SPL	TCB	M 22* 80			0.553	22	S10T		
J70							386 kg			

Calculation Weight Steel deck D3 J71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 12	2630	94.20	191	191	SM490YA		
2	SPL	PL	770* 17	270	133.4	27.7	55	SM490YB		
2	SPL	PL	770* 17	230	133.4	23.6	47	SM490YB		
4	SPL	PL	770* 17	290	133.4	29.8	119	SM490YB		
180	SPL	TCB	M 22* 90			0.583	105	S10T		
60	SPL	HTB	M 22* 95			0.63	38	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 90			0.583	23	S10T		
J71							650 kg			

Calculation Weight Steel deck D3 J72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 12	2630	94.20	191	191	SM490YA		
2	SPL	PL	770* 17	270	133.4	27.7	55	SM490YB		
2	SPL	PL	770* 17	230	133.4	23.6	47	SM490YB		
4	SPL	PL	770* 17	290	133.4	29.8	119	SM490YB		
180	SPL	TCB	M 22* 90			0.583	105	S10T		
60	SPL	HTB	M 22* 95			0.63	38	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 90			0.583	23	S10T		
J72							650 kg			

Calculation Weight Steel deck D3 J73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
2	FILL	PL	230* 9	270	70.65	4.39	9	SS400		
2	FILL	PL	230* 9	230	70.65	3.74	7	SS400		
4	FILL	PL	230* 9	290	70.65	4.71	19	SS400		
108	SPL	TCB	M 22* 80			0.553	60	S10T		

## 材料計算書 Calculation of Steel Weight

36	SPL	HTB	M 22* 85			0.6	22	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 9	380	70.65	8.05	16	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J73							386 kg			

Calculation Weight Steel deck D3 J74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J74							329 kg			

Calculation Weight Steel deck D3 J75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J75							329 kg			

Calculation Weight Steel deck D3 J76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		

## 材料計算書 Calculation of Steel Weight

36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J76	329 kg		

Calculation Weight Steel deck D3 J77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J77	329 kg		

Calculation Weight Steel deck D3 J78										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J78	329 kg		

Calculation Weight Steel deck D3 J79										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		

## 材料計算書 Calculation of Steel Weight

4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J79							329 kg			

Calculation Weight Steel deck D3 J80										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J80							329 kg			

Calculation Weight Steel deck D3 J81										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2630	70.65	87.3	87	SM490YA		
2	SPL	PL	470* 9	270	70.65	8.97	18	SM490YA		
2	SPL	PL	470* 9	230	70.65	7.64	15	SM490YA		
4	SPL	PL	470* 9	290	70.65	9.63	39	SM490YA		
108	SPL	TCB	M 22* 70			0.523	56	S10T		
36	SPL	HTB	M 22* 75			0.57	21	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J81							329 kg			
D3							520306 kg			



## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck G1 D01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3400* 16	9644	125.6	4118	4118	SM490YA		
2	RIB	BULB	230* 11	9446	25.10	237	474	SM490YA		
4	RIB	U	320* 240* 8	9446	42.30	400	1600	SM490YA		
							D01	6192 kg		
							2@ D01	12384 kg		

Calculation Weight Steel deck G1 D02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	10182	125.6	4298	4298	SM490YA		
2	RIB	BULB	230* 11	10093	25.10	253	506	SM490YA		
4	RIB	U	320* 240* 8	10093	42.30	427	1708	SM490YA		
							D02	6512 kg		
							2@ D02	13024 kg		

Calculation Weight Steel deck G1 D03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	10082	125.6	4257	4257	SM490YA		
2	RIB	BULB	230* 11	9993	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9993	42.30	423	1692	SM490YA		
							D03	6451 kg		
							2@ D03	12902 kg		

Calculation Weight Steel deck G1 D04										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	10082	125.6	4257	4257	SM490YA		
2	RIB	BULB	230* 11	9993	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9993	42.30	423	1692	SM490YA		
							D04	6451 kg		
							2@ D04	12902 kg		

Calculation Weight Steel deck G1 D05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	DECK	PL	3388* 16	10063	125.6	4282	4282	SM490YA		
2	RIB	BULB	230* 11	9992	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9992	42.30	423	1692	SM490YA		
							D05			
							6476 kg			
							2@ D05			
							12952 kg			

Calculation Weight Steel deck G1 D06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3365* 16	9997	125.6	4225	4225	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D06			
							6419 kg			
							2@ D06			
							12838 kg			

Calculation Weight Steel deck G1 D07										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D07			
							6413 kg			
							2@ D07			
							12826 kg			

Calculation Weight Steel deck G1 D08										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D08			
							6413 kg			
							2@ D08			
							12826 kg			

Calculation Weight Steel deck G1 D09										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		

## 材料計算書 Caluculation of Steel Weight

							D09			6413 kg
							2@ D09			12826 kg

Calculation Weight Steel deck G1 D10										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 20	9995	157.0	5274	5274	SM490YB		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D10			7468 kg
							2@ D10			14936 kg

Calculation Weight Steel deck G1 D11										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 27	7495	212.0	5340	5340	SM490YB		
2	RIB	BULB	230* 11	7490	25.10	188	376	SM490YA		
4	RIB	U	320* 240* 8	7490	42.30	317	1268	SM490YA		
							D11			6984 kg
							2@ D11			13968 kg

Calculation Weight Steel deck G1 D12										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 27	6745	212.0	4806	4806	SM490YB		
2	RIB	BULB	230* 11	6740	25.10	169	338	SM490YA		
4	RIB	U	320* 240* 8	6740	42.30	285	1140	SM490YA		
							D12			6284 kg
							2@ D12			12568 kg

Calculation Weight Steel deck G1 D13										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 27	9995	212.0	7121	7121	SM490YB		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D13			9315 kg
							2@ D13			18630 kg

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck G1 D14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 22	9245	172.7	5366	5366	SM490YB		
2	RIB	BULB	230* 11	9240	25.10	232	464	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
D14							7394 kg			
2@ D14							14788 kg			

Calculation Weight Steel deck G1 D15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D15							6413 kg			
2@ D15							12826 kg			

Calculation Weight Steel deck G1 D16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D16							6413 kg			
2@ D16							12826 kg			

Calculation Weight Steel deck G1 D17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D17							6413 kg			
2@ D17							12826 kg			

Calculation Weight Steel deck G1 D18										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	7495	125.6	3164	3164	SM490YA		
2	RIB	BULB	230* 11	7490	25.10	188	376	SM490YA		
4	RIB	U	320* 240* 8	7490	42.30	317	1268	SM490YA		
							D18	4808 kg		
							2@ D18	9616 kg		

Calculation Weight Steel deck G1 D19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D19	6413 kg		
							2@ D19	12826 kg		

Calculation Weight Steel deck G1 D20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D20	6413 kg		
							2@ D20	12826 kg		

Calculation Weight Steel deck G1 D21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D21	6413 kg		
							2@ D21	12826 kg		

Calculation Weight Steel deck G1 D22										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9245	125.6	3902	3902	SM490YA		
2	RIB	BULB	230* 11	9240	25.10	232	464	SM490YA		

## 材料計算書 Calculation of Steel Weight

4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA			
							D22	5930 kg			
							2@ D22	11860 kg			

Calculation Weight Steel deck G1 D23											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	3361* 19	9995	149.2	5012	5012	SM490YB			
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA			
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA			
							D23	7206 kg			
							2@ D23	14412 kg			

Calculation Weight Steel deck G1 D24											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	3361* 19	5995	149.2	3006	3006	SM490YB			
2	RIB	BULB	230* 11	5990	25.10	150	300	SM490YA			
4	RIB	U	320* 240* 8	5990	42.30	253	1012	SM490YA			
							D24	4318 kg			
							2@ D24	8636 kg			

Calculation Weight Steel deck G1 D25											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	3361* 19	9995	149.2	5012	5012	SM490YB			
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA			
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA			
							D25	7206 kg			
							2@ D25	14412 kg			

Calculation Weight Steel deck G1 D26											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	3361* 16	9245	125.6	3902	3902	SM490YA			
2	RIB	BULB	230* 11	9240	25.10	232	464	SM490YA			
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA			
							D26	5930 kg			

## 材料計算書 Caluculation of Steel Weight

2@ D26	11860 kg
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Calculation Weight Steel deck G1 D27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D27							6413 kg			
2@ D27							12826 kg			

Calculation Weight Steel deck G1 D28										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D28							6413 kg			
2@ D28							12826 kg			

Calculation Weight Steel deck G1 D29										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D29							6413 kg			
2@ D29							12826 kg			

Calculation Weight Steel deck G1 D30										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	7495	125.6	3164	3164	SM490YA		
2	RIB	BULB	230* 11	7490	25.10	188	376	SM490YA		
4	RIB	U	320* 240* 8	7490	42.30	317	1268	SM490YA		
D30							4808 kg			
2@ D30							9616 kg			

Calculation Weight Steel deck G1 D31										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D31	6413 kg		
							2@ D31	12826 kg		

Calculation Weight Steel deck G1 D32										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D32	6413 kg		
							2@ D32	12826 kg		

Calculation Weight Steel deck G1 D33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D33	6413 kg		
							2@ D33	12826 kg		

Calculation Weight Steel deck G1 D34										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9245	125.6	3902	3902	SM490YA		
2	RIB	BULB	230* 11	9240	25.10	232	464	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
							D34	5930 kg		
							2@ D34	11860 kg		

Calculation Weight Steel deck G1 D35										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 22	9995	172.7	5801	5801	SM490YB		



## 材料計算書 Calculation of Steel Weight

2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D35							7995 kg			
2@ D35							15990 kg			

Calculation Weight Steel deck G1 D36										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 22	5995	172.7	3480	3480	SM490YB		
2	RIB	BULB	230* 11	5990	25.10	150	300	SM490YA		
4	RIB	U	320* 240* 8	5990	42.30	253	1012	SM490YA		
D36							4792 kg			
2@ D36							9584 kg			

Calculation Weight Steel deck G1 D37										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 22	9995	172.7	5801	5801	SM490YB		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D37							7995 kg			
2@ D37							15990 kg			

Calculation Weight Steel deck G1 D38										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9245	125.6	3902	3902	SM490YA		
2	RIB	BULB	230* 11	9240	25.10	232	464	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
D38							5930 kg			
2@ D38							11860 kg			

Calculation Weight Steel deck G1 D39										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		

## 材料計算書 Caluculation of Steel Weight

D39	6413 kg
2@ D39	12826 kg

Calculation Weight Steel deck G1 D40										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D40							6413 kg			
2@ D40							12826 kg			

Calculation Weight Steel deck G1 D41										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D41							6413 kg			
2@ D41							12826 kg			

Calculation Weight Steel deck G1 D42										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	7495	125.6	3164	3164	SM490YA		
2	RIB	BULB	230* 11	7490	25.10	188	376	SM490YA		
4	RIB	U	320* 240* 8	7490	42.30	317	1268	SM490YA		
D42							4808 kg			
2@ D42							9616 kg			

Calculation Weight Steel deck G1 D43										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D43							6413 kg			
2@ D43							12826 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck G1 D44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D44	6413 kg		
							2@ D44	12826 kg		

Calculation Weight Steel deck G1 D45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D45	6413 kg		
							2@ D45	12826 kg		

Calculation Weight Steel deck G1 D46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9245	125.6	3902	3902	SM490YA		
2	RIB	BULB	230* 11	9240	25.10	232	464	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
							D46	5930 kg		
							2@ D46	11860 kg		

Calculation Weight Steel deck G1 D47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 22	9995	172.7	5801	5801	SM490YB		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D47	7995 kg		
							2@ D47	15990 kg		

Calculation Weight Steel deck G1 D48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	DECK	PL	3361* 21	5995	164.8	3321	3321	SM490YB		
2	RIB	BULB	230* 11	5990	25.10	150	300	SM490YA		
4	RIB	U	320* 240* 8	5990	42.30	253	1012	SM490YA		
								D48	4633 kg	
								2@ D48	9266 kg	

Calculation Weight Steel deck G1 D49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 22	9995	172.7	5801	5801	SM490YB		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
								D49	7995 kg	
								2@ D49	15990 kg	

Calculation Weight Steel deck G1 D50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9245	125.6	3902	3902	SM490YA		
2	RIB	BULB	230* 11	9240	25.10	232	464	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
								D50	5930 kg	
								2@ D50	11860 kg	

Calculation Weight Steel deck G1 D51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
								D51	6413 kg	
								2@ D51	12826 kg	

Calculation Weight Steel deck G1 D52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		

## 材料計算書 Caluculation of Steel Weight

		D52	6413 kg
		2@ D52	12826 kg

Calculation Weight Steel deck G1 D53										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
		D53	6413 kg							
		2@ D53	12826 kg							

Calculation Weight Steel deck G1 D54										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	7495	125.6	3164	3164	SM490YA		
2	RIB	BULB	230* 11	7490	25.10	188	376	SM490YA		
4	RIB	U	320* 240* 8	7490	42.30	317	1268	SM490YA		
		D54	4808 kg							
		2@ D54	9616 kg							

Calculation Weight Steel deck G1 D55										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
		D55	6413 kg							
		2@ D55	12826 kg							

Calculation Weight Steel deck G1 D56										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
		D56	6413 kg							
		2@ D56	12826 kg							

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck G1 D57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D57	6413 kg		
							2@ D57	12826 kg		

Calculation Weight Steel deck G1 D58										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9245	125.6	3902	3902	SM490YA		
2	RIB	BULB	230* 11	9240	25.10	232	464	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
							D58	5930 kg		
							2@ D58	11860 kg		

Calculation Weight Steel deck G1 D59										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 20	9995	157.0	5274	5274	SM490YB		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D59	7468 kg		
							2@ D59	14936 kg		

Calculation Weight Steel deck G1 D60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 20	5995	157.0	3164	3164	SM490YB		
2	RIB	BULB	230* 11	5990	25.10	150	300	SM490YA		
4	RIB	U	320* 240* 8	5990	42.30	253	1012	SM490YA		
							D60	4476 kg		
							2@ D60	8952 kg		

Calculation Weight Steel deck G1 D61										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 20	9995	157.0	5274	5274	SM490YB		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D61	7468 kg		
							2@ D61	14936 kg		

Calculation Weight Steel deck G1 D62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9245	125.6	3902	3902	SM490YA		
2	RIB	BULB	230* 11	9240	25.10	232	464	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
							D62	5930 kg		
							2@ D62	11860 kg		

Calculation Weight Steel deck G1 D63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D63	6413 kg		
							2@ D63	12826 kg		

Calculation Weight Steel deck G1 D64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D64	6413 kg		
							2@ D64	12826 kg		

Calculation Weight Steel deck G1 D65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		

## 材料計算書 Calculation of Steel Weight

4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA			
							D65	6413 kg			
							2@ D65	12826 kg			

Calculation Weight Steel deck G1 D66										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	7495	125.6	3164	3164	SM490YA		
2	RIB	BULB	230* 11	7490	25.10	188	376	SM490YA		
4	RIB	U	320* 240* 8	7490	42.30	317	1268	SM490YA		
							D66	4808 kg		
							2@ D66	9616 kg		

Calculation Weight Steel deck G1 D67										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D67	6413 kg		
							2@ D67	12826 kg		

Calculation Weight Steel deck G1 D68										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D68	6413 kg		
							2@ D68	12826 kg		

Calculation Weight Steel deck G1 D69										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D69	6413 kg		



## 材料計算書 Caluculation of Steel Weight

2@ D69	12826 kg
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Calculation Weight Steel deck G1 D70										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9245	125.6	3902	3902	SM490YA		
2	RIB	BULB	230* 11	9240	25.10	232	464	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
D70							5930 kg			
2@ D70							11860 kg			

Calculation Weight Steel deck G1 D71										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 25	9995	196.2	6590	6590	SM490YB		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D71							8784 kg			
2@ D71							17568 kg			

Calculation Weight Steel deck G1 D72										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 25	6745	196.2	4448	4448	SM490YB		
2	RIB	BULB	230* 11	6740	25.10	169	338	SM490YA		
4	RIB	U	320* 240* 8	6740	42.30	285	1140	SM490YA		
D72							5926 kg			
2@ D72							11852 kg			

Calculation Weight Steel deck G1 D73										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 25	9995	196.2	6590	6590	SM490YB		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D73							8784 kg			
2@ D73							17568 kg			

Calculation Weight Steel deck G1 D74										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D74	6413 kg		
							2@ D74	12826 kg		

Calculation Weight Steel deck G1 D75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D75	6413 kg		
							2@ D75	12826 kg		

Calculation Weight Steel deck G1 D76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D76	6413 kg		
							2@ D76	12826 kg		

Calculation Weight Steel deck G1 D77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D77	6413 kg		
							2@ D77	12826 kg		

Calculation Weight Steel deck G1 D78										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D78							6413 kg			
2@ D78							12826 kg			

Calculation Weight Steel deck G1 D79										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D79							6413 kg			
2@ D79							12826 kg			

Calculation Weight Steel deck G1 D80										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	9995	125.6	4219	4219	SM490YA		
2	RIB	BULB	230* 11	9990	25.10	251	502	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D80							6413 kg			
2@ D80							12826 kg			

Calculation Weight Steel deck G1 D81										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	11158	125.6	4710	4710	SM490YA		
2	RIB	BULB	230* 11	11152	25.10	280	560	SM490YA		
4	RIB	U	320* 240* 8	11152	42.30	472	1888	SM490YA		
D81							7158 kg			
2@ D81							14316 kg			

Calculation Weight Steel deck G1 D82										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3361* 16	8336	125.6	3519	3519	SM490YA		
2	RIB	BULB	230* 11	8182	25.10	205	410	SM490YA		
4	RIB	U	320* 240* 8	8182	42.30	346	1384	SM490YA		

## 材料計算書 Caluculation of Steel Weight

D82	5313 kg
2@ D82	10626 kg

Calculation Weight Steel deck G1 J01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J01	466 kg		
							2@ J01	932 kg		

Calculation Weight Steel deck G1 J02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J02	466 kg		
							2@ J02	932 kg		

Calculation Weight Steel deck G1 J03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		

### 材料計算書 Calculation of Steel Weight

1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
								J03	466 kg	
								2@ J03	932 kg	

Calculation Weight Steel deck G1 J04										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
								J04	466 kg	
								2@ J04	932 kg	

Calculation Weight Steel deck G1 J05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		

## 材料計算書 Calculation of Steel Weight

96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J05							466 kg			
2@ J05							932 kg			

Calculation Weight Steel deck G1 J06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J06							466 kg			
2@ J06							932 kg			

Calculation Weight Steel deck G1 J07										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J07							466 kg			
2@ J07							932 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck G1 J08										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J08							466 kg			
2@ J08							932 kg			

Calculation Weight Steel deck G1 J09										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 6	280	47.10	4.02	4	SS400		
1	FILL	PL	305* 6	250	47.10	3.59	4	SS400		
1	FILL	PL	305* 6	155	47.10	2.23	2	SS400		
4	FILL	PL	305* 6	270	47.10	3.88	16	SS400		
3	FILL	PL	305* 6	150	47.10	2.15	6	SS400		
1	FILL	PL	305* 6	190	47.10	2.73	3	SS400		
128	SPL	TCB	M 22* 80			0.553	71	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
1	SPL	PL	620* 9	980	70.65	42.9	43	SM490YA		
2	SPL	PL	620* 9	270	70.65	11.8	24	SM490YA		
1	SPL	PL	620* 9	170	70.65	7.45	7	SM490YA		
2	FILL	PL	305* 6	170	47.10	2.44	5	SS400		

## 材料計算書 Calculation of Steel Weight

1	FILL	PL	305* 6	170	47.10	2.44	2	SS400		
16	SPL	TCB	M 22* 75			0.538	9	S10T		
48	SPL	HTB	M 22* 80			0.585	28	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 6	320	47.10	3.47	7	SS400		
4	FILL	PL	230* 6	270	47.10	2.92	12	SS400		
3	FILL	PL	230* 6	160	47.10	1.73	5	SS400		
90	SPL	TCB	M 22* 75			0.538	48	S10T		
72	SPL	HTB	M 22* 80			0.585	42	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J09							1126 kg			
2@ J09							2252 kg			

Calculation Weight Steel deck G1 J10										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 5	280	39.25	3.35	3	SS400		
1	FILL	PL	305* 5	250	39.25	2.99	3	SS400		
1	FILL	PL	305* 5	155	39.25	1.86	2	SS400		
4	FILL	PL	305* 5	270	39.25	3.23	13	SS400		
3	FILL	PL	305* 5	150	39.25	1.80	5	SS400		
1	FILL	PL	305* 5	190	39.25	2.27	2	SS400		
128	SPL	TCB	M 22* 85			0.568	73	S10T		
96	SPL	HTB	M 22* 90			0.615	59	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 85			0.568	23	S10T		



## 材料計算書 Caluculation of Steel Weight

J10		515 kg
2@ J10		1030 kg

Calculation Weight Steel deck G1 J11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 12	3050	94.20	178	178	SM490YA		
1	SPL	PL	620* 19	280	149.2	25.9	26	SM490YB		
1	SPL	PL	620* 19	250	149.2	23.1	23	SM490YB		
1	SPL	PL	620* 19	155	149.2	14.3	14	SM490YB		
4	SPL	PL	620* 19	270	149.2	25.0	100	SM490YB		
3	SPL	PL	620* 19	150	149.2	13.9	42	SM490YB		
1	SPL	PL	620* 19	190	149.2	17.6	18	SM490YB		
128	SPL	TCB	M 22* 95			0.598	77	S10T		
96	SPL	HTB	M 22* 100			0.645	62	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 95			0.598	24	S10T		
J11		636 kg								
2@ J11		1272 kg								

Calculation Weight Steel deck G1 J12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 12	3050	94.20	178	178	SM490YA		
1	SPL	PL	620* 19	280	149.2	25.9	26	SM490YB		
1	SPL	PL	620* 19	250	149.2	23.1	23	SM490YB		
1	SPL	PL	620* 19	155	149.2	14.3	14	SM490YB		
4	SPL	PL	620* 19	270	149.2	25.0	100	SM490YB		
3	SPL	PL	620* 19	150	149.2	13.9	42	SM490YB		
1	SPL	PL	620* 19	190	149.2	17.6	18	SM490YB		
128	SPL	TCB	M 22* 95			0.598	77	S10T		
96	SPL	HTB	M 22* 100			0.645	62	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 95			0.598	24	S10T		
J12		636 kg								
2@ J12		1272 kg								

Calculation Weight Steel deck G1 J13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Caluculation of Steel Weight

1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 5	280	39.25	3.35	3	SS400		
1	FILL	PL	305* 5	250	39.25	2.99	3	SS400		
1	FILL	PL	305* 5	155	39.25	1.86	2	SS400		
4	FILL	PL	305* 5	270	39.25	3.23	13	SS400		
3	FILL	PL	305* 5	150	39.25	1.80	5	SS400		
1	FILL	PL	305* 5	190	39.25	2.27	2	SS400		
128	SPL	TCB	M 22* 85			0.568	73	S10T		
96	SPL	HTB	M 22* 90			0.615	59	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J13								515 kg		
2@ J13								1030 kg		

Calculation Weight Steel deck G1 J14										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 6	280	47.10	4.02	4	SS400		
1	FILL	PL	305* 6	250	47.10	3.59	4	SS400		
1	FILL	PL	305* 6	155	47.10	2.23	2	SS400		
4	FILL	PL	305* 6	270	47.10	3.88	16	SS400		
3	FILL	PL	305* 6	150	47.10	2.15	6	SS400		
1	FILL	PL	305* 6	190	47.10	2.73	3	SS400		
128	SPL	TCB	M 22* 80			0.553	71	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		

## 材料計算書 Calculation of Steel Weight

					J14					520 kg
					2@ J14					1040 kg

Calculation Weight Steel deck G1 J15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
					J15					466 kg
					2@ J15					932 kg

Calculation Weight Steel deck G1 J16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
					J16					466 kg
					2@ J16					932 kg

Calculation Weight Steel deck G1 J17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
								J17		466 kg
								2@ J17		932 kg

Calculation Weight Steel deck G1 J18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
								J18		466 kg
								2@ J18		932 kg

Calculation Weight Steel deck G1 J19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		

## 材料計算書 Calculation of Steel Weight

128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J19							466 kg			
2@ J19							932 kg			

Calculation Weight Steel deck G1 J20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J20							466 kg			
2@ J20							932 kg			

Calculation Weight Steel deck G1 J21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J21							466 kg			
2@ J21							932 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck G1 J22										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 3.2	280	25.12	2.15	2	SS400		
1	FILL	PL	305* 3.2	250	25.12	1.92	2	SS400		
1	FILL	PL	305* 3.2	155	25.12	1.19	1	SS400		
4	FILL	PL	305* 3.2	270	25.12	2.07	8	SS400		
3	FILL	PL	305* 3.2	150	25.12	1.15	3	SS400		
1	FILL	PL	305* 3.2	190	25.12	1.46	1	SS400		
128	SPL	TCB	M 22* 75			0.538	69	S10T		
96	SPL	HTB	M 22* 80			0.585	56	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 3.2	380	25.12	2.86	6	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J22							493 kg			
2@ J22							986 kg			

Calculation Weight Steel deck G1 J23										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 14	280	109.9	19.1	19	SM490YA		
1	SPL	PL	620* 14	250	109.9	17.0	17	SM490YA		
1	SPL	PL	620* 14	155	109.9	10.6	11	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		
3	SPL	PL	620* 14	150	109.9	10.2	31	SM490YA		
1	SPL	PL	620* 14	190	109.9	12.9	13	SM490YA		
128	SPL	TCB	M 22* 80			0.553	71	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J23							522 kg			
2@ J23							1044 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck G1 J24										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 14	280	109.9	19.1	19	SM490YA		
1	SPL	PL	620* 14	250	109.9	17.0	17	SM490YA		
1	SPL	PL	620* 14	155	109.9	10.6	11	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		
3	SPL	PL	620* 14	150	109.9	10.2	31	SM490YA		
1	SPL	PL	620* 14	190	109.9	12.9	13	SM490YA		
128	SPL	TCB	M 22* 80			0.553	71	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J24							522 kg			
2@ J24							1044 kg			

Calculation Weight Steel deck G1 J25										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 3.2	280	25.12	2.15	2	SS400		
1	FILL	PL	305* 3.2	250	25.12	1.92	2	SS400		
1	FILL	PL	305* 3.2	155	25.12	1.19	1	SS400		
4	FILL	PL	305* 3.2	270	25.12	2.07	8	SS400		
3	FILL	PL	305* 3.2	150	25.12	1.15	3	SS400		
1	FILL	PL	305* 3.2	190	25.12	1.46	1	SS400		
128	SPL	TCB	M 22* 75			0.538	69	S10T		
96	SPL	HTB	M 22* 80			0.585	56	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 3.2	380	25.12	2.86	6	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J25							493 kg			
2@ J25							986 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck G1 J26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J26							466 kg			
2@ J26							932 kg			

Calculation Weight Steel deck G1 J27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J27							466 kg			
2@ J27							932 kg			

Calculation Weight Steel deck G1 J28										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		



## 材料計算書 Calculation of Steel Weight

1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J28								466 kg		
2@ J28								932 kg		

Calculation Weight Steel deck G1 J29										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J29								466 kg		
2@ J29								932 kg		

Calculation Weight Steel deck G1 J30										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		

## 材料計算書 Calculation of Steel Weight

40	SPL	TCB	M 22* 70			0.523	21	S10T		
J30							466 kg			
2@ J30							932 kg			

## Calculation Weight Steel deck G1 J31

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J31							466 kg			
2@ J31							932 kg			

## Calculation Weight Steel deck G1 J32

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J32							466 kg			
2@ J32							932 kg			

## Calculation Weight Steel deck G1 J33

Calculation Weight Steel deck G1 J33										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J33							466 kg			
2@ J33							932 kg			

### Calculation Weight Steel deck G1 J34

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 6	280	47.10	4.02	4	SS400		
1	FILL	PL	305* 6	250	47.10	3.59	4	SS400		
1	FILL	PL	305* 6	155	47.10	2.23	2	SS400		
4	FILL	PL	305* 6	270	47.10	3.88	16	SS400		
3	FILL	PL	305* 6	150	47.10	2.15	6	SS400		
1	FILL	PL	305* 6	190	47.10	2.73	3	SS400		
128	SPL	TCB	M 22* 80			0.553	71	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J34							520 kg			
2@ J34							1040 kg			

### Calculation Weight Steel deck G1 J35

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	3050	78.50	184	184	SM490YA		
1	SPL	PL	770* 15	280	117.8	25.4	25	SM490YA		
1	SPL	PL	770* 15	250	117.8	22.7	23	SM490YA		
1	SPL	PL	770* 15	155	117.8	14.1	14	SM490YA		
4	SPL	PL	770* 15	270	117.8	24.5	98	SM490YA		
3	SPL	PL	770* 15	150	117.8	13.6	41	SM490YA		
1	SPL	PL	770* 15	190	117.8	17.2	17	SM490YA		
160	SPL	TCB	M 22* 85			0.568	91	S10T		
120	SPL	HTB	M 22* 90			0.615	74	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J35							662 kg			
2@ J35							1324 kg			

### Calculation Weight Steel deck G1 J36

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	3050	78.50	184	184	SM490YA		
1	SPL	PL	770* 15	280	117.8	25.4	25	SM490YA		
1	SPL	PL	770* 15	250	117.8	22.7	23	SM490YA		
1	SPL	PL	770* 15	155	117.8	14.1	14	SM490YA		
4	SPL	PL	770* 15	270	117.8	24.5	98	SM490YA		
3	SPL	PL	770* 15	150	117.8	13.6	41	SM490YA		
1	SPL	PL	770* 15	190	117.8	17.2	17	SM490YA		
160	SPL	TCB	M 22* 85			0.568	91	S10T		
120	SPL	HTB	M 22* 90			0.615	74	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J36							662 kg			
2@ J36							1324 kg			

### Calculation Weight Steel deck G1 J37

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 6	280	47.10	4.02	4	SS400		
1	FILL	PL	305* 6	250	47.10	3.59	4	SS400		
1	FILL	PL	305* 6	155	47.10	2.23	2	SS400		
4	FILL	PL	305* 6	270	47.10	3.88	16	SS400		
3	FILL	PL	305* 6	150	47.10	2.15	6	SS400		
1	FILL	PL	305* 6	190	47.10	2.73	3	SS400		
128	SPL	TCB	M 22* 80			0.553	71	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
							J37	520 kg		
							2@ J37	1040 kg		

Calculation Weight Steel deck G1 J38										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J38	466 kg		
							2@ J38	932 kg		

Calculation Weight Steel deck G1 J39										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J39							466 kg			
2@ J39							932 kg			

Calculation Weight Steel deck G1 J40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J40							466 kg			
2@ J40							932 kg			

Calculation Weight Steel deck G1 J41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J41							466 kg			

## 材料計算書 Caluculation of Steel Weight

2@ J41

932 kg

Calculation Weight Steel deck G1 J42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J42							466 kg			
2@ J42							932 kg			

Calculation Weight Steel deck G1 J43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J43							466 kg			
2@ J43							932 kg			

Calculation Weight Steel deck G1 J44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		

## 材料計算書 Caluculation of Steel Weight

1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J44							466 kg			
2@ J44							932 kg			

Calculation Weight Steel deck G1 J45										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J45							466 kg			
2@ J45							932 kg			

Calculation Weight Steel deck G1 J46										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 5	280	39.25	3.35	3	SS400		
1	FILL	PL	305* 5	250	39.25	2.99	3	SS400		



## 材料計算書 Caluculation of Steel Weight

1	FILL	PL	305* 5	155	39.25	1.86	2	SS400		
4	FILL	PL	305* 5	270	39.25	3.23	13	SS400		
3	FILL	PL	305* 5	150	39.25	1.80	5	SS400		
1	FILL	PL	305* 5	190	39.25	2.27	2	SS400		
128	SPL	TCB	M 22* 75			0.538	69	S10T		
96	SPL	HTB	M 22* 80			0.585	56	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J46							507 kg			
2@ J46							1014 kg			

Calculation Weight Steel deck G1 J47										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	3050	78.50	184	184	SM490YA		
1	SPL	PL	770* 15	280	117.8	25.4	25	SM490YA		
1	SPL	PL	770* 15	250	117.8	22.7	23	SM490YA		
1	SPL	PL	770* 15	155	117.8	14.1	14	SM490YA		
4	SPL	PL	770* 15	270	117.8	24.5	98	SM490YA		
3	SPL	PL	770* 15	150	117.8	13.6	41	SM490YA		
1	SPL	PL	770* 15	190	117.8	17.2	17	SM490YA		
160	SPL	TCB	M 22* 85			0.568	91	S10T		
120	SPL	HTB	M 22* 90			0.615	74	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J47							662 kg			
2@ J47							1324 kg			

Calculation Weight Steel deck G1 J48										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 10	3050	78.50	184	184	SM490YA		
1	SPL	PL	770* 15	280	117.8	25.4	25	SM490YA		
1	SPL	PL	770* 15	250	117.8	22.7	23	SM490YA		
1	SPL	PL	770* 15	155	117.8	14.1	14	SM490YA		
4	SPL	PL	770* 15	270	117.8	24.5	98	SM490YA		
3	SPL	PL	770* 15	150	117.8	13.6	41	SM490YA		
1	SPL	PL	770* 15	190	117.8	17.2	17	SM490YA		
160	SPL	TCB	M 22* 85			0.568	91	S10T		
120	SPL	HTB	M 22* 90			0.615	74	F10T		

## 材料計算書 Calculation of Steel Weight

4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J48							662 kg			
2@ J48							1324 kg			

## Calculation Weight Steel deck G1 J49

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 5	280	39.25	3.35	3	SS400		
1	FILL	PL	305* 5	250	39.25	2.99	3	SS400		
1	FILL	PL	305* 5	155	39.25	1.86	2	SS400		
4	FILL	PL	305* 5	270	39.25	3.23	13	SS400		
3	FILL	PL	305* 5	150	39.25	1.80	5	SS400		
1	FILL	PL	305* 5	190	39.25	2.27	2	SS400		
128	SPL	TCB	M 22* 75			0.538	69	S10T		
96	SPL	HTB	M 22* 80			0.585	56	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J49							507 kg			
2@ J49							1014 kg			

## Calculation Weight Steel deck G1 J50

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		

## 材料計算書 Calculation of Steel Weight

4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J50							466 kg			
2@ J50							932 kg			

Calculation Weight Steel deck G1 J51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J51							466 kg			
2@ J51							932 kg			

Calculation Weight Steel deck G1 J52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J52							466 kg			
2@ J52							932 kg			

Calculation Weight Steel deck G1 J53										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J53							466 kg			
2@ J53							932 kg			

Calculation Weight Steel deck G1 J54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J54							466 kg			
2@ J54							932 kg			

Calculation Weight Steel deck G1 J55										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		

### 材料計算書 Calculation of Steel Weight

3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J55							466 kg			
2@ J55							932 kg			

Calculation Weight Steel deck G1 J56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J56							466 kg			
2@ J56							932 kg			

Calculation Weight Steel deck G1 J57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		

## 材料計算書 Caluculation of Steel Weight

J57	466 kg
2@ J57	932 kg

Calculation Weight Steel deck G1 J58										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 4	280	31.40	2.68	3	SS400		
1	FILL	PL	305* 4	250	31.40	2.39	2	SS400		
1	FILL	PL	305* 4	155	31.40	1.48	1	SS400		
4	FILL	PL	305* 4	270	31.40	2.59	10	SS400		
3	FILL	PL	305* 4	150	31.40	1.44	4	SS400		
1	FILL	PL	305* 4	190	31.40	1.82	2	SS400		
128	SPL	TCB	M 22* 75			0.538	69	S10T		
96	SPL	HTB	M 22* 80			0.585	56	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 4	380	31.40	3.58	7	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
							J58	499 kg		
							2@ J58	998 kg		

Calculation Weight Steel deck G1 J59										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 14	280	109.9	19.1	19	SM490YA		
1	SPL	PL	620* 14	250	109.9	17.0	17	SM490YA		
1	SPL	PL	620* 14	155	109.9	10.6	11	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		
3	SPL	PL	620* 14	150	109.9	10.2	31	SM490YA		
1	SPL	PL	620* 14	190	109.9	12.9	13	SM490YA		
128	SPL	TCB	M 22* 80			0.553	71	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		

## 材料計算書 Caluculation of Steel Weight

J59	522 kg
2@ J59	1044 kg

Calculation Weight Steel deck G1 J60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 14	280	109.9	19.1	19	SM490YA		
1	SPL	PL	620* 14	250	109.9	17.0	17	SM490YA		
1	SPL	PL	620* 14	155	109.9	10.6	11	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		
3	SPL	PL	620* 14	150	109.9	10.2	31	SM490YA		
1	SPL	PL	620* 14	190	109.9	12.9	13	SM490YA		
128	SPL	TCB	M 22* 80			0.553	71	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
							J60	522 kg		
							2@ J60	1044 kg		

Calculation Weight Steel deck G1 J61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 4	280	31.40	2.68	3	SS400		
1	FILL	PL	305* 4	250	31.40	2.39	2	SS400		
1	FILL	PL	305* 4	155	31.40	1.48	1	SS400		
4	FILL	PL	305* 4	270	31.40	2.59	10	SS400		
3	FILL	PL	305* 4	150	31.40	1.44	4	SS400		
1	FILL	PL	305* 4	190	31.40	1.82	2	SS400		
128	SPL	TCB	M 22* 75			0.538	69	S10T		
96	SPL	HTB	M 22* 80			0.585	56	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 4	380	31.40	3.58	7	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		

## 材料計算書 Caluculation of Steel Weight

J61	499 kg
2@ J61	998 kg

Calculation Weight Steel deck G1 J62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J62	466 kg		
							2@ J62	932 kg		

Calculation Weight Steel deck G1 J63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J63	466 kg		
							2@ J63	932 kg		

Calculation Weight Steel deck G1 J64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		



### 材料計算書 Calculation of Steel Weight

1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J64								466 kg		
2@ J64								932 kg		

Calculation Weight Steel deck G1 J65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J65								466 kg		
2@ J65								932 kg		

Calculation Weight Steel deck G1 J66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		

## 材料計算書 Calculation of Steel Weight

96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J66							466 kg			
2@ J66							932 kg			

Calculation Weight Steel deck G1 J67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J67							466 kg			
2@ J67							932 kg			

Calculation Weight Steel deck G1 J68										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J68							466 kg			
2@ J68							932 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck G1 J69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J69	466 kg		
							2@ J69	932 kg		

Calculation Weight Steel deck G1 J70										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 9	280	70.65	6.03	6	SS400		
1	FILL	PL	305* 9	250	70.65	5.39	5	SS400		
1	FILL	PL	305* 9	155	70.65	3.34	3	SS400		
4	FILL	PL	305* 9	270	70.65	5.82	23	SS400		
3	FILL	PL	305* 9	150	70.65	3.23	10	SS400		
1	FILL	PL	305* 9	190	70.65	4.09	4	SS400		
128	SPL	TCB	M 22* 80			0.553	71	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 9	380	70.65	8.05	16	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
							J70	541 kg		
							2@ J70	1082 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck G1 J71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 11	3050	86.35	203	203	SM490YA		
1	SPL	PL	770* 18	280	141.3	30.5	30	SM490YB		
1	SPL	PL	770* 18	250	141.3	27.2	27	SM490YB		
1	SPL	PL	770* 18	155	141.3	16.9	17	SM490YB		
4	SPL	PL	770* 18	270	141.3	29.4	118	SM490YB		
3	SPL	PL	770* 18	150	141.3	16.3	49	SM490YB		
1	SPL	PL	770* 18	190	141.3	20.7	21	SM490YB		
160	SPL	TCB	M 22* 90			0.583	93	S10T		
120	SPL	HTB	M 22* 95			0.63	76	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 90			0.583	23	S10T		
J71							729 kg			
2@ J71							1458 kg			

Calculation Weight Steel deck G1 J72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 11	3050	86.35	203	203	SM490YA		
1	SPL	PL	770* 18	280	141.3	30.5	30	SM490YB		
1	SPL	PL	770* 18	250	141.3	27.2	27	SM490YB		
1	SPL	PL	770* 18	155	141.3	16.9	17	SM490YB		
4	SPL	PL	770* 18	270	141.3	29.4	118	SM490YB		
3	SPL	PL	770* 18	150	141.3	16.3	49	SM490YB		
1	SPL	PL	770* 18	190	141.3	20.7	21	SM490YB		
160	SPL	TCB	M 22* 90			0.583	93	S10T		
120	SPL	HTB	M 22* 95			0.63	76	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 90			0.583	23	S10T		
J72							729 kg			
2@ J72							1458 kg			

Calculation Weight Steel deck G1 J73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		

### 材料計算書 Calculation of Steel Weight

4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
1	FILL	PL	305* 9	280	70.65	6.03	6	SS400		
1	FILL	PL	305* 9	250	70.65	5.39	5	SS400		
1	FILL	PL	305* 9	155	70.65	3.34	3	SS400		
4	FILL	PL	305* 9	270	70.65	5.82	23	SS400		
3	FILL	PL	305* 9	150	70.65	3.23	10	SS400		
1	FILL	PL	305* 9	190	70.65	4.09	4	SS400		
128	SPL	TCB	M 22* 80			0.553	71	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 9	380	70.65	8.05	16	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
								J73		
								541 kg		
								2@ J73		
								1082 kg		

Calculation Weight Steel deck G1 J74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
								J74		
								466 kg		
								2@ J74		
								932 kg		

Calculation Weight Steel deck G1 J75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		

## 材料計算書 Calculation of Steel Weight

4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J75							466 kg			
2@ J75							932 kg			

Calculation Weight Steel deck G1 J76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J76							466 kg			
2@ J76							932 kg			

Calculation Weight Steel deck G1 J77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		

## 材料計算書 Calculation of Steel Weight

J77	466 kg
2@ J77	932 kg

Calculation Weight Steel deck G1 J78										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J78							466 kg			
2@ J78							932 kg			

Calculation Weight Steel deck G1 J79										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J79							466 kg			
2@ J79							932 kg			

Calculation Weight Steel deck G1 J80										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J80								466 kg		
2@ J80								932 kg		

Calculation Weight Steel deck G1 J81										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 9	3050	70.65	134	134	SM490YA		
1	SPL	PL	620* 10	280	78.50	13.6	14	SM490YA		
1	SPL	PL	620* 10	250	78.50	12.2	12	SM490YA		
1	SPL	PL	620* 10	155	78.50	7.54	8	SM490YA		
4	SPL	PL	620* 10	270	78.50	13.1	52	SM490YA		
3	SPL	PL	620* 10	150	78.50	7.30	22	SM490YA		
1	SPL	PL	620* 10	190	78.50	9.25	9	SM490YA		
128	SPL	TCB	M 22* 70			0.523	67	S10T		
96	SPL	HTB	M 22* 75			0.57	55	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J81								466 kg		
2@ J81								932 kg		
G1								1132560 kg		



## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck G2 D01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3100* 16	9640	125.6	3753	3753	SM490YA		
4	RIB	U	320* 240* 8	9446	42.30	400	1600	SM490YA		
							D01	5353 kg		
							2@ D01	10706 kg		

Calculation Weight Steel deck G2 D02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	10175	125.6	3912	3912	SM490YA		
4	RIB	U	320* 240* 8	10093	42.30	427	1708	SM490YA		
							D02	5620 kg		
							2@ D02	11240 kg		

Calculation Weight Steel deck G2 D03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	10075	125.6	3874	3874	SM490YA		
4	RIB	U	320* 240* 8	9993	42.30	423	1692	SM490YA		
							D03	5566 kg		
							2@ D03	11132 kg		

Calculation Weight Steel deck G2 D04										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	10075	125.6	3874	3874	SM490YA		
4	RIB	U	320* 240* 8	9993	42.30	423	1692	SM490YA		
							D04	5566 kg		
							2@ D04	11132 kg		

Calculation Weight Steel deck G2 D05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3088* 16	10057	125.6	3901	3901	SM490YA		
4	RIB	U	320* 240* 8	9992	42.30	423	1692	SM490YA		
							D05	5593 kg		

## 材料計算書 Calculation of Steel Weight

2@ D05	11186 kg
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Calculation Weight Steel deck G2 D06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3065* 16	9996	125.6	3848	3848	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D06							5540 kg			
2@ D06							11080 kg			

Calculation Weight Steel deck G2 D07										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D07							5534 kg			
2@ D07							11068 kg			

Calculation Weight Steel deck G2 D08										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D08							5534 kg			
2@ D08							11068 kg			

Calculation Weight Steel deck G2 D09										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D09							5534 kg			
2@ D09							11068 kg			

Calculation Weight Steel deck G2 D10										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 22	9995	172.7	5283	5283	SM490YB		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		

## 材料計算書 Caluculation of Steel Weight

		D10	6975 kg
		2@ D10	13950 kg

Calculation Weight Steel deck G2 D11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 27	7495	212.0	4863	4863	SM490YB		
4	RIB	U	320* 240* 8	7490	42.30	317	1268	SM490YA		
							D11	6131 kg		
							2@ D11	12262 kg		

Calculation Weight Steel deck G2 D12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 27	6745	212.0	4378	4378	SM490YB		
4	RIB	U	320* 240* 8	6740	42.30	285	1140	SM490YA		
							D12	5518 kg		
							2@ D12	11036 kg		

Calculation Weight Steel deck G2 D13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 27	9995	212.0	6485	6485	SM490YB		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D13	8177 kg		
							2@ D13	16354 kg		

Calculation Weight Steel deck G2 D14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 22	9245	172.7	4887	4887	SM490YB		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
							D14	6451 kg		
							2@ D14	12902 kg		

Calculation Weight Steel deck G2 D15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D15			
							5534 kg			
							2@ D15			
							11068 kg			

Calculation Weight Steel deck G2 D16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D16			
							5534 kg			
							2@ D16			
							11068 kg			

Calculation Weight Steel deck G2 D17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D17			
							5534 kg			
							2@ D17			
							11068 kg			

Calculation Weight Steel deck G2 D18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	7495	125.6	2881	2881	SM490YA		
4	RIB	U	320* 240* 8	7490	42.30	317	1268	SM490YA		
							D18			
							4149 kg			
							2@ D18			
							8298 kg			

Calculation Weight Steel deck G2 D19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D19			
							5534 kg			
							2@ D19			
							11068 kg			

Calculation Weight Steel deck G2 D20										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D20	5534 kg		
							2@ D20	11068 kg		

Calculation Weight Steel deck G2 D21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D21	5534 kg		
							2@ D21	11068 kg		

Calculation Weight Steel deck G2 D22										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9245	125.6	3554	3554	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
							D22	5118 kg		
							2@ D22	10236 kg		

Calculation Weight Steel deck G2 D23										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 19	9995	149.2	4564	4564	SM490YB		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D23	6256 kg		
							2@ D23	12512 kg		

Calculation Weight Steel deck G2 D24										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 19	5995	149.2	2738	2738	SM490YB		
4	RIB	U	320* 240* 8	5990	42.30	253	1012	SM490YA		
							D24	3750 kg		
							2@ D24	7500 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck G2 D25										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 19	9995	149.2	4564	4564	SM490YB		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D25	6256 kg		
							2@ D25	12512 kg		

Calculation Weight Steel deck G2 D26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9245	125.6	3554	3554	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
							D26	5118 kg		
							2@ D26	10236 kg		

Calculation Weight Steel deck G2 D27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D27	5534 kg		
							2@ D27	11068 kg		

Calculation Weight Steel deck G2 D28										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D28	5534 kg		
							2@ D28	11068 kg		

Calculation Weight Steel deck G2 D29										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		

## 材料計算書 Caluculation of Steel Weight

		D29	5534 kg
		2@ D29	11068 kg

Calculation Weight Steel deck G2 D30										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	7495	125.6	2881	2881	SM490YA		
4	RIB	U	320* 240* 8	7490	42.30	317	1268	SM490YA		
		D30	4149 kg							
		2@ D30	8298 kg							

Calculation Weight Steel deck G2 D31										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
		D31	5534 kg							
		2@ D31	11068 kg							

Calculation Weight Steel deck G2 D32										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
		D32	5534 kg							
		2@ D32	11068 kg							

Calculation Weight Steel deck G2 D33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
		D33	5534 kg							
		2@ D33	11068 kg							

Calculation Weight Steel deck G2 D34										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9295	125.6	3573	3573	SM490YA		

## 材料計算書 Calculation of Steel Weight

4	RIB	U	320* 240* 8	9290	42.30	393	1572	SM490YA			
							D34	5145 kg			
							2@ D34	10290 kg			

Calculation Weight Steel deck G2 D35											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	3061* 22	9995	172.7	5283	5283	SM490YB			
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA			
							D35	6975 kg			
							2@ D35	13950 kg			

Calculation Weight Steel deck G2 D36											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	3061* 22	5995	172.7	3169	3169	SM490YB			
4	RIB	U	320* 240* 8	5990	42.30	253	1012	SM490YA			
							D36	4181 kg			
							2@ D36	8362 kg			

Calculation Weight Steel deck G2 D37											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	3061* 22	9995	172.7	5283	5283	SM490YB			
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA			
							D37	6975 kg			
							2@ D37	13950 kg			

Calculation Weight Steel deck G2 D38											
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	DECK	PL	3061* 16	9245	125.6	3554	3554	SM490YA			
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA			
							D38	5118 kg			
							2@ D38	10236 kg			

Calculation Weight Steel deck G2 D39										



## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D39	5534 kg		
							2@ D39	11068 kg		

Calculation Weight Steel deck G2 D40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D40	5534 kg		
							2@ D40	11068 kg		

Calculation Weight Steel deck G2 D41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D41	5534 kg		
							2@ D41	11068 kg		

Calculation Weight Steel deck G2 D42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	7945	125.6	3055	3055	SM490YA		
4	RIB	U	320* 240* 8	7940	42.30	336	1344	SM490YA		
							D42	4399 kg		
							2@ D42	8798 kg		

Calculation Weight Steel deck G2 D43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D43	5534 kg		
							2@ D43	11068 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck G2 D44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D44	5534 kg		
							2@ D44	11068 kg		

Calculation Weight Steel deck G2 D45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D45	5534 kg		
							2@ D45	11068 kg		

Calculation Weight Steel deck G2 D46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9245	125.6	3554	3554	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
							D46	5118 kg		
							2@ D46	10236 kg		

Calculation Weight Steel deck G2 D47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 21	9995	164.8	5041	5041	SM490YB		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D47	6733 kg		
							2@ D47	13466 kg		

Calculation Weight Steel deck G2 D48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 21	5995	164.8	3024	3024	SM490YB		
4	RIB	U	320* 240* 8	5990	42.30	253	1012	SM490YA		
							D48	4036 kg		

## 材料計算書 Calculation of Steel Weight

2@ D48	8072 kg
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Calculation Weight Steel deck G2 D49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 21	9995	164.8	5041	5041	SM490YB		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D49							6733 kg			
2@ D49							13466 kg			

Calculation Weight Steel deck G2 D50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9245	125.6	3554	3554	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
D50							5118 kg			
2@ D50							10236 kg			

Calculation Weight Steel deck G2 D51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D51							5534 kg			
2@ D51							11068 kg			

Calculation Weight Steel deck G2 D52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D52							5534 kg			
2@ D52							11068 kg			

Calculation Weight Steel deck G2 D53										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		

## 材料計算書 Caluculation of Steel Weight

		D53	5534 kg
		2@ D53	11068 kg

Calculation Weight Steel deck G2 D54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	7945	125.6	3055	3055	SM490YA		
4	RIB	U	320* 240* 8	7940	42.30	336	1344	SM490YA		
							D54	4399 kg		
							2@ D54	8798 kg		

Calculation Weight Steel deck G2 D55										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D55	5534 kg		
							2@ D55	11068 kg		

Calculation Weight Steel deck G2 D56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D56	5534 kg		
							2@ D56	11068 kg		

Calculation Weight Steel deck G2 D57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D57	5534 kg		
							2@ D57	11068 kg		

Calculation Weight Steel deck G2 D58										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	DECK	PL	3061* 16	9245	125.6	3554	3554	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
D58								5118 kg		
2@ D58								10236 kg		

Calculation Weight Steel deck G2 D59										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 20	9995	157.0	4803	4803	SM490YB		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D59								6495 kg		
2@ D59								12990 kg		

Calculation Weight Steel deck G2 D60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 20	5995	157.0	2881	2881	SM490YB		
4	RIB	U	320* 240* 8	5990	42.30	253	1012	SM490YA		
D60								3893 kg		
2@ D60								7786 kg		

Calculation Weight Steel deck G2 D61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 20	9995	157.0	4803	4803	SM490YB		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D61								6495 kg		
2@ D61								12990 kg		

Calculation Weight Steel deck G2 D62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9245	125.6	3554	3554	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
D62								5118 kg		
2@ D62								10236 kg		

Calculation Weight Steel deck G2 D63										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D63	5534 kg		
							2@ D63	11068 kg		

Calculation Weight Steel deck G2 D64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D64	5534 kg		
							2@ D64	11068 kg		

Calculation Weight Steel deck G2 D65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D65	5534 kg		
							2@ D65	11068 kg		

Calculation Weight Steel deck G2 D66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	7945	125.6	3055	3055	SM490YA		
4	RIB	U	320* 240* 8	7940	42.30	336	1344	SM490YA		
							D66	4399 kg		
							2@ D66	8798 kg		

Calculation Weight Steel deck G2 D67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D67	5534 kg		
							2@ D67	11068 kg		

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck G2 D68										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D68	5534 kg		
							2@ D68	11068 kg		

Calculation Weight Steel deck G2 D69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D69	5534 kg		
							2@ D69	11068 kg		

Calculation Weight Steel deck G2 D70										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9245	125.6	3554	3554	SM490YA		
4	RIB	U	320* 240* 8	9240	42.30	391	1564	SM490YA		
							D70	5118 kg		
							2@ D70	10236 kg		

Calculation Weight Steel deck G2 D71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 25	9995	196.2	6002	6002	SM490YB		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D71	7694 kg		
							2@ D71	15388 kg		

Calculation Weight Steel deck G2 D72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 25	6745	196.2	4052	4052	SM490YB		
4	RIB	U	320* 240* 8	6740	42.30	285	1140	SM490YA		

## 材料計算書 Caluculation of Steel Weight

D72		5192 kg
2@ D72		10384 kg

Calculation Weight Steel deck G2 D73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 25	9995	196.2	6002	6002	SM490YB		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D73		7694 kg								
2@ D73		15388 kg								

Calculation Weight Steel deck G2 D74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D74		5534 kg								
2@ D74		11068 kg								

Calculation Weight Steel deck G2 D75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D75		5534 kg								
2@ D75		11068 kg								

Calculation Weight Steel deck G2 D76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
D76		5534 kg								
2@ D76		11068 kg								

Calculation Weight Steel deck G2 D77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		



## 材料計算書 Calculation of Steel Weight

4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA			
							D77	5534 kg			
							2@ D77	11068 kg			

Calculation Weight Steel deck G2 D78										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D78	5534 kg		
							2@ D78	11068 kg		

Calculation Weight Steel deck G2 D79										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D79	5534 kg		
							2@ D79	11068 kg		

Calculation Weight Steel deck G2 D80										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	9995	125.6	3842	3842	SM490YA		
4	RIB	U	320* 240* 8	9990	42.30	423	1692	SM490YA		
							D80	5534 kg		
							2@ D80	11068 kg		

Calculation Weight Steel deck G2 D81										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	11158	125.6	4289	4289	SM490YA		
4	RIB	U	320* 240* 8	11152	42.30	472	1888	SM490YA		
							D81	6177 kg		
							2@ D81	12354 kg		

Calculation Weight Steel deck G2 D82										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	DECK	PL	3061* 16	8336	125.6	3205	3205	SM490YA		
4	RIB	U	320* 240* 8	8182	42.30	346	1384	SM490YA		
							D82	4589 kg		
							2@ D82	9178 kg		

Calculation Weight Steel deck G2 J01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J01	345 kg		
							2@ J01	690 kg		

Calculation Weight Steel deck G2 J02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J02	345 kg		
							2@ J02	690 kg		

Calculation Weight Steel deck G2 J03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		

## 材料計算書 Calculation of Steel Weight

3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J03							345 kg			
2@ J03							690 kg			

Calculation Weight Steel deck G2 J04										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J04							345 kg			
2@ J04							690 kg			

Calculation Weight Steel deck G2 J05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J05							345 kg			
2@ J05							690 kg			

Calculation Weight Steel deck G2 J06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J06							345 kg			
2@ J06							690 kg			

Calculation Weight Steel deck G2 J07										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J07							345 kg			
2@ J07							690 kg			

Calculation Weight Steel deck G2 J08										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J08							345 kg			
2@ J08							690 kg			

Calculation Weight Steel deck G2 J10										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 5	320	39.25	2.89	6	SS400		
4	FILL	PL	230* 5	270	39.25	2.44	10	SS400		
3	FILL	PL	230* 5	160	39.25	1.44	4	SS400		
90	SPL	TCB	M 22* 80			0.553	50	S10T		
72	SPL	HTB	M 22* 85			0.6	43	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J10							380 kg			
2@ J10							760 kg			

Calculation Weight Steel deck G2 J11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 12	2750	94.20	200	200	SM490YA		
2	SPL	PL	770* 19	320	149.2	36.8	74	SM490YB		
4	SPL	PL	770* 19	270	149.2	31.0	124	SM490YB		
3	SPL	PL	770* 19	160	149.2	18.4	55	SM490YB		
150	SPL	TCB	M 22* 95			0.598	90	S10T		
120	SPL	HTB	M 22* 100			0.645	77	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 95			0.598	24	S10T		
J11							716 kg			
2@ J11							1432 kg			

Calculation Weight Steel deck G2 J12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 12	2750	94.20	200	200	SM490YA		
2	SPL	PL	770* 19	320	149.2	36.8	74	SM490YB		
4	SPL	PL	770* 19	270	149.2	31.0	124	SM490YB		
3	SPL	PL	770* 19	160	149.2	18.4	55	SM490YB		
150	SPL	TCB	M 22* 95			0.598	90	S10T		
120	SPL	HTB	M 22* 100			0.645	77	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 95			0.598	24	S10T		

## 材料計算書 Caluculation of Steel Weight

J12	716 kg
2@ J12	1432 kg

Calculation Weight Steel deck G2 J13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 5	320	39.25	2.89	6	SS400		
4	FILL	PL	230* 5	270	39.25	2.44	10	SS400		
3	FILL	PL	230* 5	160	39.25	1.44	4	SS400		
90	SPL	TCB	M 22* 80			0.553	50	S10T		
72	SPL	HTB	M 22* 85			0.6	43	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J13							380 kg			
2@ J13							760 kg			

Calculation Weight Steel deck G2 J14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 6	320	47.10	3.47	7	SS400		
4	FILL	PL	230* 6	270	47.10	2.92	12	SS400		
3	FILL	PL	230* 6	160	47.10	1.73	5	SS400		
90	SPL	TCB	M 22* 75			0.538	48	S10T		
72	SPL	HTB	M 22* 80			0.585	42	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J14							383 kg			
2@ J14							766 kg			

Calculation Weight Steel deck G2 J15										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J15							345 kg			
2@ J15							690 kg			

Calculation Weight Steel deck G2 J16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J16							345 kg			
2@ J16							690 kg			

Calculation Weight Steel deck G2 J17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J17							345 kg			
2@ J17							690 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck G2 J18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J18							345 kg			
2@ J18							690 kg			

Calculation Weight Steel deck G2 J19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J19							345 kg			
2@ J19							690 kg			

Calculation Weight Steel deck G2 J20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		



## 材料計算書 Caluculation of Steel Weight

J20	345 kg
2@ J20	690 kg

Calculation Weight Steel deck G2 J21										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J21	345 kg		
							2@ J21	690 kg		

Calculation Weight Steel deck G2 J22										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 3.2	320	25.12	1.85	4	SS400		
4	FILL	PL	230* 3.2	270	25.12	1.56	6	SS400		
3	FILL	PL	230* 3.2	160	25.12	0.924	3	SS400		
90	SPL	TCB	M 22* 75			0.538	48	S10T		
72	SPL	HTB	M 22* 80			0.585	42	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 3.2	380	25.12	2.86	6	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
							J22	367 kg		
							2@ J22	734 kg		

Calculation Weight Steel deck G2 J23										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	2750	78.50	134	134	SM490YA		
2	SPL	PL	620* 14	320	109.9	21.8	44	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		

## 材料計算書 Calculation of Steel Weight

3	SPL	PL	620* 14	160	109.9	10.9	33	SM490YA		
120	SPL	TCB	M 22* 80			0.553	66	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J23							503 kg			
2@ J23							1006 kg			

Calculation Weight Steel deck G2 J24										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	2750	78.50	134	134	SM490YA		
2	SPL	PL	620* 14	320	109.9	21.8	44	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		
3	SPL	PL	620* 14	160	109.9	10.9	33	SM490YA		
120	SPL	TCB	M 22* 80			0.553	66	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J24							503 kg			
2@ J24							1006 kg			

Calculation Weight Steel deck G2 J25										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 3.2	320	25.12	1.85	4	SS400		
4	FILL	PL	230* 3.2	270	25.12	1.56	6	SS400		
3	FILL	PL	230* 3.2	160	25.12	0.924	3	SS400		
90	SPL	TCB	M 22* 75			0.538	48	S10T		
72	SPL	HTB	M 22* 80			0.585	42	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 3.2	380	25.12	2.86	6	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J25							367 kg			
2@ J25							734 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck G2 J26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J26							345 kg			
2@ J26							690 kg			

Calculation Weight Steel deck G2 J27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J27							345 kg			
2@ J27							690 kg			

Calculation Weight Steel deck G2 J28										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J28							345 kg			

## 材料計算書 Calculation of Steel Weight

2@ J28

690 kg

Calculation Weight Steel deck G2 J29										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J29	345 kg		
							2@ J29	690 kg		

Calculation Weight Steel deck G2 J30										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J30	345 kg		
							2@ J30	690 kg		

Calculation Weight Steel deck G2 J31										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		

## 材料計算書 Caluculation of Steel Weight

J31	345 kg
2@ J31	690 kg

Calculation Weight Steel deck G2 J32										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J32							345 kg			
2@ J32							690 kg			

Calculation Weight Steel deck G2 J33										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J33							345 kg			
2@ J33							690 kg			

Calculation Weight Steel deck G2 J34										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 6	320	47.10	3.47	7	SS400		
4	FILL	PL	230* 6	270	47.10	2.92	12	SS400		

## 材料計算書 Calculation of Steel Weight

3	FILL	PL	230* 6	160	47.10	1.73	5	SS400		
90	SPL	TCB	M 22* 75			0.538	48	S10T		
72	SPL	HTB	M 22* 80			0.585	42	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J34							383 kg			
2@ J34							766 kg			

Calculation Weight Steel deck G2 J35										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	2750	78.50	134	134	SM490YA		
2	SPL	PL	620* 14	320	109.9	21.8	44	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		
3	SPL	PL	620* 14	160	109.9	10.9	33	SM490YA		
120	SPL	TCB	M 22* 85			0.568	68	S10T		
96	SPL	HTB	M 22* 90			0.615	59	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J35							507 kg			
2@ J35							1014 kg			

Calculation Weight Steel deck G2 J36										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	2750	78.50	134	134	SM490YA		
2	SPL	PL	620* 14	320	109.9	21.8	44	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		
3	SPL	PL	620* 14	160	109.9	10.9	33	SM490YA		
120	SPL	TCB	M 22* 85			0.568	68	S10T		
96	SPL	HTB	M 22* 90			0.615	59	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 85			0.568	23	S10T		
J36							507 kg			
2@ J36							1014 kg			

Calculation Weight Steel deck G2 J37										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 6	320	47.10	3.47	7	SS400		
4	FILL	PL	230* 6	270	47.10	2.92	12	SS400		
3	FILL	PL	230* 6	160	47.10	1.73	5	SS400		
90	SPL	TCB	M 22* 75			0.538	48	S10T		
72	SPL	HTB	M 22* 80			0.585	42	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 6	380	47.10	5.37	11	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
							J37	383 kg		
							2@ J37	766 kg		

Calculation Weight Steel deck G2 J38										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J38	345 kg		
							2@ J38	690 kg		

Calculation Weight Steel deck G2 J39										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		

## 材料計算書 Caluculation of Steel Weight

J39	345 kg
2@ J39	690 kg

Calculation Weight Steel deck G2 J40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J40							345 kg			
2@ J40							690 kg			

Calculation Weight Steel deck G2 J41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J41							345 kg			
2@ J41							690 kg			

Calculation Weight Steel deck G2 J42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		



## 材料計算書 Calculation of Steel Weight

40	SPL	TCB	M 22* 70			0.523	21	S10T			
							J42	345 kg			
							2@ J42	690 kg			

Calculation Weight Steel deck G2 J43										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J43	345 kg		
							2@ J43	690 kg		

Calculation Weight Steel deck G2 J44										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J44	345 kg		
							2@ J44	690 kg		

Calculation Weight Steel deck G2 J45										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		

## 材料計算書 Calculation of Steel Weight

72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J45							345 kg			
2@ J45							690 kg			

Calculation Weight Steel deck G2 J46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 5	320	39.25	2.89	6	SS400		
4	FILL	PL	230* 5	270	39.25	2.44	10	SS400		
3	FILL	PL	230* 5	160	39.25	1.44	4	SS400		
90	SPL	TCB	M 22* 75			0.538	48	S10T		
72	SPL	HTB	M 22* 80			0.585	42	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J46							377 kg			
2@ J46							754 kg			

Calculation Weight Steel deck G2 J47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	2750	78.50	134	134	SM490YA		
2	SPL	PL	620* 14	320	109.9	21.8	44	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		
3	SPL	PL	620* 14	160	109.9	10.9	33	SM490YA		
120	SPL	TCB	M 22* 80			0.553	66	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J47							503 kg			
2@ J47							1006 kg			

Calculation Weight Steel deck G2 J48										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	2750	78.50	134	134	SM490YA		
2	SPL	PL	620* 14	320	109.9	21.8	44	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		
3	SPL	PL	620* 14	160	109.9	10.9	33	SM490YA		
120	SPL	TCB	M 22* 80			0.553	66	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J48							503 kg			
2@ J48							1006 kg			

Calculation Weight Steel deck G2 J49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 5	320	39.25	2.89	6	SS400		
4	FILL	PL	230* 5	270	39.25	2.44	10	SS400		
3	FILL	PL	230* 5	160	39.25	1.44	4	SS400		
90	SPL	TCB	M 22* 75			0.538	48	S10T		
72	SPL	HTB	M 22* 80			0.585	42	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 5	380	39.25	4.47	9	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J49							377 kg			
2@ J49							754 kg			

Calculation Weight Steel deck G2 J50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		

## 材料計算書 Caluculation of Steel Weight

					J50	345 kg
					2@ J50	690 kg

Calculation Weight Steel deck G2 J51										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J51						345 kg				
2@ J51						690 kg				

Calculation Weight Steel deck G2 J52										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J52						345 kg				
2@ J52						690 kg				

Calculation Weight Steel deck G2 J53										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		

## 材料計算書 Calculation of Steel Weight

4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J53							345 kg			
2@ J53							690 kg			

Calculation Weight Steel deck G2 J54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J54							345 kg			
2@ J54							690 kg			

Calculation Weight Steel deck G2 J55										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J55							345 kg			
2@ J55							690 kg			

Calculation Weight Steel deck G2 J56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		

## 材料計算書 Calculation of Steel Weight

90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J56							345 kg			
2@ J56							690 kg			

Calculation Weight Steel deck G2 J57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J57							345 kg			
2@ J57							690 kg			

Calculation Weight Steel deck G2 J58										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 4	320	31.40	2.31	5	SS400		
4	FILL	PL	230* 4	270	31.40	1.95	8	SS400		
3	FILL	PL	230* 4	160	31.40	1.16	3	SS400		
90	SPL	TCB	M 22* 75			0.538	48	S10T		
72	SPL	HTB	M 22* 80			0.585	42	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 4	380	31.40	3.58	7	SS400		
40	SPL	TCB	M 22* 75			0.538	22	S10T		
J58							371 kg			
2@ J58							742 kg			

Calculation Weight Steel deck G2 J59										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	2750	78.50	134	134	SM490YA		
2	SPL	PL	620* 14	320	109.9	21.8	44	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		
3	SPL	PL	620* 14	160	109.9	10.9	33	SM490YA		
120	SPL	TCB	M 22* 80			0.553	66	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J59							503 kg			
2@ J59							1006 kg			

Calculation Weight Steel deck G2 J60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	620* 10	2750	78.50	134	134	SM490YA		
2	SPL	PL	620* 14	320	109.9	21.8	44	SM490YA		
4	SPL	PL	620* 14	270	109.9	18.4	74	SM490YA		
3	SPL	PL	620* 14	160	109.9	10.9	33	SM490YA		
120	SPL	TCB	M 22* 80			0.553	66	S10T		
96	SPL	HTB	M 22* 85			0.6	58	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J60							503 kg			
2@ J60							1006 kg			

Calculation Weight Steel deck G2 J61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 4	320	31.40	2.31	5	SS400		
4	FILL	PL	230* 4	270	31.40	1.95	8	SS400		
3	FILL	PL	230* 4	160	31.40	1.16	3	SS400		
90	SPL	TCB	M 22* 75			0.538	48	S10T		
72	SPL	HTB	M 22* 80			0.585	42	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 4	380	31.40	3.58	7	SS400		

## 材料計算書 Calculation of Steel Weight

40	SPL	TCB	M 22* 75			0.538	22	S10T		
J61							371 kg			
2@ J61							742 kg			

Calculation Weight Steel deck G2 J62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J62							345 kg			
2@ J62							690 kg			

Calculation Weight Steel deck G2 J63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J63							345 kg			
2@ J63							690 kg			

Calculation Weight Steel deck G2 J64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		



## 材料計算書 Calculation of Steel Weight

72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J64							345 kg			
2@ J64							690 kg			

Calculation Weight Steel deck G2 J65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J65							345 kg			
2@ J65							690 kg			

Calculation Weight Steel deck G2 J66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J66							345 kg			
2@ J66							690 kg			

Calculation Weight Steel deck G2 J67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		

## 材料計算書 Calculation of Steel Weight

3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J67							345 kg			
2@ J67							690 kg			

Calculation Weight Steel deck G2 J68										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J68							345 kg			
2@ J68							690 kg			

Calculation Weight Steel deck G2 J69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J69							345 kg			
2@ J69							690 kg			

Calculation Weight Steel deck G2 J70										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 9	320	70.65	5.20	10	SS400		
4	FILL	PL	230* 9	270	70.65	4.39	18	SS400		
3	FILL	PL	230* 9	160	70.65	2.60	8	SS400		
90	SPL	TCB	M 22* 80			0.553	50	S10T		
72	SPL	HTB	M 22* 85			0.6	43	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 9	380	70.65	8.05	16	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J70							403 kg			
2@ J70							806 kg			

Calculation Weight Steel deck G2 J71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 12	2750	94.20	200	200	SM490YA		
2	SPL	PL	770* 19	320	149.2	36.8	74	SM490YB		
4	SPL	PL	770* 19	270	149.2	31.0	124	SM490YB		
3	SPL	PL	770* 19	160	149.2	18.4	55	SM490YB		
150	SPL	TCB	M 22* 95			0.598	90	S10T		
120	SPL	HTB	M 22* 100			0.645	77	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 95			0.598	24	S10T		
J71							716 kg			
2@ J71							1432 kg			

Calculation Weight Steel deck G2 J72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	770* 12	2750	94.20	200	200	SM490YA		
2	SPL	PL	770* 19	320	149.2	36.8	74	SM490YB		
4	SPL	PL	770* 19	270	149.2	31.0	124	SM490YB		
3	SPL	PL	770* 19	160	149.2	18.4	55	SM490YB		
150	SPL	TCB	M 22* 95			0.598	90	S10T		
120	SPL	HTB	M 22* 100			0.645	77	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 95			0.598	24	S10T		
J72							716 kg			

## 材料計算書 Calculation of Steel Weight

2@ J72

1432 kg

Calculation Weight Steel deck G2 J73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
2	FILL	PL	230* 9	320	70.65	5.20	10	SS400		
4	FILL	PL	230* 9	270	70.65	4.39	18	SS400		
3	FILL	PL	230* 9	160	70.65	2.60	8	SS400		
90	SPL	TCB	M 22* 80			0.553	50	S10T		
72	SPL	HTB	M 22* 85			0.6	43	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
2	FILL	PL	300* 9	380	70.65	8.05	16	SS400		
40	SPL	TCB	M 22* 80			0.553	22	S10T		
J73							403 kg			
2@ J73							806 kg			

Calculation Weight Steel deck G2 J74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J74							345 kg			
2@ J74							690 kg			

Calculation Weight Steel deck G2 J75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		

## 材料計算書 Calculation of Steel Weight

90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J75							345 kg			
2@ J75							690 kg			

Calculation Weight Steel deck G2 J76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J76							345 kg			
2@ J76							690 kg			

Calculation Weight Steel deck G2 J77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J77							345 kg			
2@ J77							690 kg			

Calculation Weight Steel deck G2 J78										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		

## 材料計算書 Calculation of Steel Weight

4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J78		345 kg	
							2@ J78		690 kg	

Calculation Weight Steel deck G2 J79										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J79		345 kg	
							2@ J79		690 kg	

Calculation Weight Steel deck G2 J80										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
							J80		345 kg	
							2@ J80		690 kg	

Calculation Weight Steel deck G2 J81										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Caluculation of Steel Weight

1	SPL	PL	470* 9	2750	70.65	91.3	91	SM490YA		
2	SPL	PL	470* 9	320	70.65	10.6	21	SM490YA		
4	SPL	PL	470* 9	270	70.65	8.97	36	SM490YA		
3	SPL	PL	470* 9	160	70.65	5.31	16	SM490YA		
90	SPL	TCB	M 22* 70			0.523	47	S10T		
72	SPL	HTB	M 22* 75			0.57	41	F10T		
4	SPL	PL	300* 9	850	70.65	18.0	72	SM490YA		
40	SPL	TCB	M 22* 70			0.523	21	S10T		
J81							345 kg			
2@ J81							690 kg			
G2							972748 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck JL1_8										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2845	70.65	60.3	60	SM490YA		
1	TSPL	PL	300* 9	2695	70.65	57.1	57	SM490YA		
1	TSPL	PL	300* 9	3616	70.65	76.7	77	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
1	BSPL	PL	300* 9	2631	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2635	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2638	70.65	55.9	56	SM490YA		
1	BSPL	PL	300* 9	885	70.65	18.8	19	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
196	BSPL	TCB	M 22* 70			0.523	103	S10T		
							JL1_8 518 kg			



## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL1 B01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2845	70.65	60.3	60	SM490YA		
1	TSPL	PL	300* 9	2695	70.65	57.1	57	SM490YA		
1	TSPL	PL	300* 9	3616	70.65	76.7	77	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
1	BSPL	PL	300* 9	2631	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2635	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2638	70.65	55.9	56	SM490YA		
1	BSPL	PL	300* 9	885	70.65	18.8	19	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
196	BSPL	TCB	M 22* 70			0.523	103	S10T		
							B01		518 kg	
							2@ B01		1036 kg	

Calculation Weight Steel deck JL1 B02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3419	70.65	72.5	72	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
1	TSPL	PL	300* 9	3319	70.65	70.3	70	SM490YA		
1	BSPL	PL	300* 9	888	70.65	18.8	19	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
1	BSPL	PL	300* 9	788	70.65	16.7	17	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
212	BSPL	TCB	M 22* 70			0.523	111	S10T		
							B02		529 kg	
							2@ B02		1058 kg	

Calculation Weight Steel deck JL1 B03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		

## 材料計算書 Calculation of Steel Weight

2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3319	70.65	70.3	141	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
2	BSPL	PL	300* 9	788	70.65	16.7	33	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B03							524 kg			
2@ B03							1048 kg			

Calculation Weight Steel deck JL1 B04										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3319	70.65	70.3	141	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
2	BSPL	PL	300* 9	788	70.65	16.7	33	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B04							524 kg			
2@ B04							1048 kg			

Calculation Weight Steel deck JL1 B05										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3317	70.65	70.3	70	SM490YA		
1	TSPL	PL	300* 9	2498	70.65	52.9	53	SM490YA		
1	TSPL	PL	300* 9	3317	70.65	70.3	70	SM490YA		
1	BSPL	PL	300* 9	786	70.65	16.7	17	SM490YA		
1	BSPL	PL	300* 9	2439	70.65	51.7	52	SM490YA		
1	BSPL	PL	300* 9	2438	70.65	51.7	52	SM490YA		
1	BSPL	PL	300* 9	2435	70.65	51.6	52	SM490YA		
1	BSPL	PL	300* 9	786	70.65	16.7	17	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		

## 材料計算書 Caluculation of Steel Weight

							B05			525 kg
							2@ B05			1050 kg

Calculation Weight Steel deck JL1 B06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B06			521 kg
							2@ B06			1042 kg

Calculation Weight Steel deck JL1 B07										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B07			501 kg
							2@ B07			1002 kg

Calculation Weight Steel deck JL1 B08										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		

### 材料計算書 Calculation of Steel Weight

2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B08							543 kg			
2@ B08							1086 kg			

Calculation Weight Steel deck JL1 B09										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
210	BSPL	TCB	M 22* 75			0.538	113	S10T		
B09							1047 kg			
2@ B09							2094 kg			

Calculation Weight Steel deck JL1 B11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	BSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
156	BSPL	TCB	M 22* 80			0.553	86	S10T		
B11							394 kg			
2@ B11							788 kg			

Calculation Weight Steel deck JL1 B12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
146	BSPL	TCB	M 22* 80			0.553	81	S10T		
B12							357 kg			
2@ B12							714 kg			

Calculation Weight Steel deck JL1 B13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
232	BSPL	TCB	M 22* 80			0.553	128	S10T		
B13							540 kg			

## 材料計算書 Caluculation of Steel Weight

2@ B13

1080 kg

Calculation Weight Steel deck JL1 B14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
200	BSPL	TCB	M 22* 75			0.538	108	S10T		
							B14	488 kg		
							2@ B14	976 kg		

Calculation Weight Steel deck JL1 B15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B15	522 kg		
							2@ B15	1044 kg		

Calculation Weight Steel deck JL1 B16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		

## 材料計算書 Calculation of Steel Weight

2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B16							501 kg			
2@ B16							1002 kg			

Calculation Weight Steel deck JL1 B17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B17							543 kg			
2@ B17							1086 kg			

Calculation Weight Steel deck JL1 B18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
156	BSPL	TCB	M 22* 70			0.523	82	S10T		
B18							390 kg			
2@ B18							780 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL1 B19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B19		522 kg	
							2@ B19		1044 kg	

Calculation Weight Steel deck JL1 B20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B20		522 kg	
							2@ B20		1044 kg	

Calculation Weight Steel deck JL1 B21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		



## 材料計算書 Calculation of Steel Weight

210	BSPL	TCB	M 22* 70			0.523	110	S10T			
							B21	522 kg			
							2@ B21	1044 kg			

Calculation Weight Steel deck JL1 B22											
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
2	FSPL	HTB	M 22* 65			0.54	1	F10T			
12	WSPL	HTB	M 22* 75			0.57	7	F10T			
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400			
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA			
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA			
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA			
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA			
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA			
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA			
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA			
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400			
200	BSPL	TCB	M 22* 70			0.523	105	S10T			
							B22	485 kg			
							2@ B22	970 kg			

Calculation Weight Steel deck JL1 B23											
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
2	FSPL	HTB	M 22* 65			0.54	1	F10T			
12	WSPL	HTB	M 22* 75			0.57	7	F10T			
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400			
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA			
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA			
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA			
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA			
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400			
232	BSPL	TCB	M 22* 75			0.538	125	S10T			
							B23	537 kg			
							2@ B23	1074 kg			

Calculation Weight Steel deck JL1 B24										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
136	BSPL	TCB	M 22* 75			0.538	73	S10T		
<b>B24</b>							<b>318 kg</b>			
<b>2@ B24</b>							<b>636 kg</b>			

Calculation Weight Steel deck JL1 B25										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
232	BSPL	TCB	M 22* 75			0.538	125	S10T		
<b>B25</b>							<b>537 kg</b>			
<b>2@ B25</b>							<b>1074 kg</b>			

Calculation Weight Steel deck JL1 B26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		

## 材料計算書 Calculation of Steel Weight

		B26	485 kg
		2@ B26	970 kg

Calculation Weight Steel deck JL1 B27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B27	522 kg		
							2@ B27	1044 kg		

Calculation Weight Steel deck JL1 B28										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B28	522 kg		
							2@ B28	1044 kg		

Calculation Weight Steel deck JL1 B29										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		

### 材料計算書 Calculation of Steel Weight

1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B29		522 kg	
							2@ B29		1044 kg	

Calculation Weight Steel deck JL1 B30										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
156	BSPL	TCB	M 22* 70			0.523	82	S10T		
							B30		390 kg	
							2@ B30		780 kg	

Calculation Weight Steel deck JL1 B31										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B31		522 kg	
							2@ B31		1044 kg	

Calculation Weight Steel deck JL1 B32										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B32							522 kg			
2@ B32							1044 kg			

Calculation Weight Steel deck JL1 B33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B33							522 kg			
2@ B33							1044 kg			

Calculation Weight Steel deck JL1 B34										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
B34							485 kg			
2@ B34							970 kg			

Calculation Weight Steel deck JL1 B35										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
232	BSPL	TCB	M 22* 75			0.538	125	S10T		
B35							537 kg			
2@ B35							1074 kg			

Calculation Weight Steel deck JL1 B36										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
136	BSPL	TCB	M 22* 75			0.538	73	S10T		
B36							318 kg			
2@ B36							636 kg			

Calculation Weight Steel deck JL1 B37										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		

### 材料計算書 Calculation of Steel Weight

2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
232	BSPL	TCB	M 22* 75			0.538	125	S10T		
B37							537 kg			
2@ B37							1074 kg			

Calculation Weight Steel deck JL1 B38										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
B38							485 kg			
2@ B38							970 kg			

Calculation Weight Steel deck JL1 B39										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		

## 材料計算書 Caluculation of Steel Weight

B39	522 kg
2@ B39	1044 kg

Calculation Weight Steel deck JL1 B40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B40							522 kg			
2@ B40							1044 kg			

Calculation Weight Steel deck JL1 B41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B41							522 kg			
2@ B41							1044 kg			

Calculation Weight Steel deck JL1 B42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		



## 材料計算書 Calculation of Steel Weight

1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
156	BSPL	TCB	M 22* 70			0.523	82	S10T		
B42							390 kg			
2@ B42							780 kg			

Calculation Weight Steel deck JL1 B43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B43							522 kg			
2@ B43							1044 kg			

Calculation Weight Steel deck JL1 B44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B44							522 kg			
2@ B44							1044 kg			

Calculation Weight Steel deck JL1 B45										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B45		522 kg	
							2@ B45		1044 kg	

Calculation Weight Steel deck JL1 B46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
							B46		485 kg	
							2@ B46		970 kg	

Calculation Weight Steel deck JL1 B47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		

## 材料計算書 Calculation of Steel Weight

4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
232	BSPL	TCB	M 22* 75			0.538	125	S10T		
B47							536 kg			
2@ B47							1072 kg			

Calculation Weight Steel deck JL1 B48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
136	BSPL	TCB	M 22* 75			0.538	73	S10T		
B48							318 kg			
2@ B48							636 kg			

Calculation Weight Steel deck JL1 B49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
232	BSPL	TCB	M 22* 75			0.538	125	S10T		
B49							536 kg			
2@ B49							1072 kg			

Calculation Weight Steel deck JL1 B50										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
							B50		485 kg	
							2@ B50		970 kg	

Calculation Weight Steel deck JL1 B51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B51		522 kg	
							2@ B51		1044 kg	

Calculation Weight Steel deck JL1 B52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B52							522 kg			
2@ B52							1044 kg			

Calculation Weight Steel deck JL1 B53										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B53							522 kg			
2@ B53							1044 kg			

Calculation Weight Steel deck JL1 B54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
156	BSPL	TCB	M 22* 70			0.523	82	S10T		
B54							390 kg			
2@ B54							780 kg			

Calculation Weight Steel deck JL1 B55										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		

## 材料計算書 Calculation of Steel Weight

12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B55							522 kg			
2@ B55							1044 kg			

Calculation Weight Steel deck JL1 B56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B56							522 kg			
2@ B56							1044 kg			

Calculation Weight Steel deck JL1 B57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B57							522 kg			
2@ B57							1044 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck JL1 B58										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
B58							485 kg			
2@ B58							970 kg			

Calculation Weight Steel deck JL1 B59										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
232	BSPL	TCB	M 22* 75			0.538	125	S10T		
B59							536 kg			
2@ B59							1072 kg			

Calculation Weight Steel deck JL1 B60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		

## 材料計算書 Calculation of Steel Weight

2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
136	BSPL	TCB	M 22* 75			0.538	73	S10T		
B60							318 kg			
2@ B60							636 kg			

Calculation Weight Steel deck JL1 B61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
232	BSPL	TCB	M 22* 75			0.538	125	S10T		
B61							536 kg			
2@ B61							1072 kg			

Calculation Weight Steel deck JL1 B62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		



## 材料計算書 Calculation of Steel Weight

B62	485 kg
2@ B62	970 kg

Calculation Weight Steel deck JL1 B63										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B63							522 kg			
2@ B63							1044 kg			

Calculation Weight Steel deck JL1 B64										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B64							522 kg			
2@ B64							1044 kg			

Calculation Weight Steel deck JL1 B65										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B65							522 kg			
2@ B65							1044 kg			

Calculation Weight Steel deck JL1 B66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
156	BSPL	TCB	M 22* 70			0.523	82	S10T		
B66							390 kg			
2@ B66							780 kg			

Calculation Weight Steel deck JL1 B67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B67							522 kg			
2@ B67							1044 kg			

Calculation Weight Steel deck JL1 B68										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B68			
							522 kg			
							2@ B68			
							1044 kg			

Calculation Weight Steel deck JL1 B69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B69			
							522 kg			
							2@ B69			
							1044 kg			

Calculation Weight Steel deck JL1 B70										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
B70							485 kg			
2@ B70							970 kg			

Calculation Weight Steel deck JL1 B71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
232	BSPL	TCB	M 22* 80			0.553	128	S10T		
B71							539 kg			
2@ B71							1078 kg			

Calculation Weight Steel deck JL1 B72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
146	BSPL	TCB	M 22* 80			0.553	81	S10T		
B72							357 kg			
2@ B72							714 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL1 B73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 80			0.553	116	S10T		
B73							528 kg			
2@ B73							1056 kg			

Calculation Weight Steel deck JL1 B74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B74							522 kg			
2@ B74							1044 kg			

Calculation Weight Steel deck JL1 B75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B75							522 kg			
2@ B75							1044 kg			

Calculation Weight Steel deck JL1 B76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B76							522 kg			
2@ B76							1044 kg			

Calculation Weight Steel deck JL1 B77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
B77							522 kg			
2@ B77							1044 kg			

Calculation Weight Steel deck JL1 B78										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		

## 材料計算書 Calculation of Steel Weight

2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B78		522 kg	
							2@ B78		1044 kg	

Calculation Weight Steel deck JL1 B79										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B79		522 kg	
							2@ B79		1044 kg	

Calculation Weight Steel deck JL1 B80										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
210	BSPL	TCB	M 22* 70			0.523	110	S10T		
							B80		522 kg	
							2@ B80		1044 kg	

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck JL1 B81										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	FSPL	HTB	M 22* 65			0.54	1	F10T		
12	WSPL	HTB	M 22* 75			0.57	7	F10T		
2	FSPL	PL	100* 9	185	70.65	1.31	3	SS400		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	4473	70.65	94.8	95	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	3205	70.65	67.9	68	SM490YA		
1	BSPL	PL	300* 9	1168	70.65	24.8	25	SM490YA		
2	WSPL	PL	301* 13	335	102.0	10.3	21	SS400		
224	BSPL	TCB	M 22* 80			0.553	124	S10T		
							B81	586 kg		
							2@ B81	1172 kg		

Calculation Weight Steel deck JL1 B82										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	1198	70.65	25.4	25	SM490YA		
1	TSPL	PL	300* 9	3265	70.65	69.2	69	SM490YA		
1	TSPL	PL	300* 9	3420	70.65	72.5	72	SM490YA		
1	BSPL	PL	300* 9	1168	70.65	24.8	25	SM490YA		
2	BSPL	PL	300* 9	3205	70.65	67.9	136	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
156	BSPL	TCB	M 22* 80			0.553	86	S10T		
							B82	415 kg		
							2@ B82	830 kg		
							JL1	81258 kg		



## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck JL2_7										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2845	70.65	60.3	60	SM490YA		
1	TSPL	PL	300* 9	2695	70.65	57.1	57	SM490YA		
1	TSPL	PL	300* 9	3616	70.65	76.7	77	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
1	BSPL	PL	300* 9	2631	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2635	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2638	70.65	55.9	56	SM490YA		
1	BSPL	PL	300* 9	885	70.65	18.8	19	SM490YA		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
JL2_7							488 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL2 B01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2845	70.65	60.3	60	SM490YA		
1	TSPL	PL	300* 9	2695	70.65	57.1	57	SM490YA		
1	TSPL	PL	300* 9	3616	70.65	76.7	77	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
1	BSPL	PL	300* 9	2631	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2635	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2638	70.65	55.9	56	SM490YA		
1	BSPL	PL	300* 9	885	70.65	18.8	19	SM490YA		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
B01							488 kg			
2@ B01							976 kg			

Calculation Weight Steel deck JL2 B02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3419	70.65	72.5	72	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
1	TSPL	PL	300* 9	3319	70.65	70.3	70	SM490YA		
1	BSPL	PL	300* 9	888	70.65	18.8	19	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
1	BSPL	PL	300* 9	788	70.65	16.7	17	SM490YA		
220	BSPL	TCB	M 22* 70			0.523	115	S10T		
B02							501 kg			
2@ B02							1002 kg			

Calculation Weight Steel deck JL2 B03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3319	70.65	70.3	141	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
2	BSPL	PL	300* 9	788	70.65	16.7	33	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
212	BSPL	TCB	M 22* 70			0.523	111	S10T		
B03							493 kg			
2@ B03							986 kg			

Calculation Weight Steel deck JL2 B04										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3319	70.65	70.3	141	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
2	BSPL	PL	300* 9	788	70.65	16.7	33	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
212	BSPL	TCB	M 22* 70			0.523	111	S10T		
B04							493 kg			
2@ B04							986 kg			

Calculation Weight Steel deck JL2 B05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3317	70.65	70.3	70	SM490YA		
1	TSPL	PL	300* 9	2498	70.65	52.9	53	SM490YA		
1	TSPL	PL	300* 9	3317	70.65	70.3	70	SM490YA		
1	BSPL	PL	300* 9	786	70.65	16.7	17	SM490YA		
1	BSPL	PL	300* 9	2439	70.65	51.7	52	SM490YA		
1	BSPL	PL	300* 9	2438	70.65	51.7	52	SM490YA		
1	BSPL	PL	300* 9	2435	70.65	51.6	52	SM490YA		
1	BSPL	PL	300* 9	786	70.65	16.7	17	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B05							497 kg			
2@ B05							994 kg			

Calculation Weight Steel deck JL2 B06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B06							493 kg			
2@ B06							986 kg			

Calculation Weight Steel deck JL2 B07										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B07							494 kg			
2@ B07							988 kg			

### Calculation Weight Steel deck JL2 B08

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B08							494 kg			
2@ B08							988 kg			

### Calculation Weight Steel deck JL2 B09

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
218	BSPL	TCB	M 22* 75			0.538	117	S10T		
B09							991 kg			
2@ B09							1982 kg			

### Calculation Weight Steel deck JL2 B11

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		

### 材料計算書 Calculation of Steel Weight

1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	BSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 80			0.553	91	S10T		
B11							367 kg			
2@ B11							734 kg			

Calculation Weight Steel deck JL2 B12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
158	BSPL	TCB	M 22* 80			0.553	87	S10T		
B12							331 kg			
2@ B12							662 kg			

Calculation Weight Steel deck JL2 B13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 80			0.553	133	S10T		
B13							513 kg			
2@ B13							1026 kg			

Calculation Weight Steel deck JL2 B14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 75			0.538	112	S10T		
B14							460 kg			
2@ B14							920 kg			

Calculation Weight Steel deck JL2 B15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B15							494 kg			
2@ B15							988 kg			

Calculation Weight Steel deck JL2 B16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B16							494 kg			
2@ B16							988 kg			

Calculation Weight Steel deck JL2 B17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B17							494 kg			
2@ B17							988 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL2 B18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
							B18	362 kg		
							2@ B18	724 kg		

Calculation Weight Steel deck JL2 B19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B19	494 kg		
							2@ B19	988 kg		

Calculation Weight Steel deck JL2 B20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B20	494 kg		
							2@ B20	988 kg		

Calculation Weight Steel deck JL2 B21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B21							494 kg			
2@ B21							988 kg			

Calculation Weight Steel deck JL2 B22										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B22							457 kg			
2@ B22							914 kg			

Calculation Weight Steel deck JL2 B23										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B23							509 kg			
2@ B23							1018 kg			

Calculation Weight Steel deck JL2 B24										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
B24							290 kg			



## 材料計算書 Caluculation of Steel Weight

2@ B24	580 kg
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Calculation Weight Steel deck JL2 B25										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B25							509 kg			
2@ B25							1018 kg			

Calculation Weight Steel deck JL2 B26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B26							457 kg			
2@ B26							914 kg			

Calculation Weight Steel deck JL2 B27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B27							494 kg			
2@ B27							988 kg			

Calculation Weight Steel deck JL2 B28										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B28	494 kg		
							2@ B28	988 kg		

### Calculation Weight Steel deck JL2 B29

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B29	494 kg		
							2@ B29	988 kg		

### Calculation Weight Steel deck JL2 B30

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
							B30	362 kg		
							2@ B30	724 kg		

### Calculation Weight Steel deck JL2 B31

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		

## 材料計算書 Calculation of Steel Weight

B31		494 kg
2@ B31		988 kg

Calculation Weight Steel deck JL2 B32										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B32							494 kg			
2@ B32							988 kg			

Calculation Weight Steel deck JL2 B33										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B33							494 kg			
2@ B33							988 kg			

Calculation Weight Steel deck JL2 B34										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B34							457 kg			
2@ B34							914 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL2 B35										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
							<b>B35</b>	<b>509 kg</b>		
							<b>2@ B35</b>	<b>1018 kg</b>		

Calculation Weight Steel deck JL2 B36										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
							<b>B36</b>	<b>290 kg</b>		
							<b>2@ B36</b>	<b>580 kg</b>		

Calculation Weight Steel deck JL2 B37										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
							<b>B37</b>	<b>509 kg</b>		
							<b>2@ B37</b>	<b>1018 kg</b>		

Calculation Weight Steel deck JL2 B38										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		

## 材料計算書 Caluculation of Steel Weight

2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B38							457 kg			
2@ B38							914 kg			

Calculation Weight Steel deck JL2 B39										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B39							494 kg			
2@ B39							988 kg			

Calculation Weight Steel deck JL2 B40										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B40							494 kg			
2@ B40							988 kg			

Calculation Weight Steel deck JL2 B41										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B41							494 kg			
2@ B41							988 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL2 B42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
							B42	362 kg		
							2@ B42	724 kg		

Calculation Weight Steel deck JL2 B43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B43	494 kg		
							2@ B43	988 kg		

Calculation Weight Steel deck JL2 B44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B44	494 kg		
							2@ B44	988 kg		

Calculation Weight Steel deck JL2 B45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		

## 材料計算書 Calculation of Steel Weight

3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B45							494 kg			
2@ B45							988 kg			

Calculation Weight Steel deck JL2 B46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B46							457 kg			
2@ B46							914 kg			

Calculation Weight Steel deck JL2 B47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B47							509 kg			
2@ B47							1018 kg			

Calculation Weight Steel deck JL2 B48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
B48							290 kg			
2@ B48							580 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL2 B49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B49							509 kg			
2@ B49							1018 kg			

Calculation Weight Steel deck JL2 B50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B50							457 kg			
2@ B50							914 kg			

Calculation Weight Steel deck JL2 B51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B51							494 kg			
2@ B51							988 kg			

Calculation Weight Steel deck JL2 B52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks



## 材料計算書 Calculation of Steel Weight

2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B52							494 kg			
2@ B52							988 kg			

Calculation Weight Steel deck JL2 B53										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B53							494 kg			
2@ B53							988 kg			

Calculation Weight Steel deck JL2 B54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
B54							362 kg			
2@ B54							724 kg			

Calculation Weight Steel deck JL2 B55										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		

## 材料計算書 Calculation of Steel Weight

B55	494 kg
2@ B55	988 kg

Calculation Weight Steel deck JL2 B56										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B56							494 kg			
2@ B56							988 kg			

Calculation Weight Steel deck JL2 B57										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B57							494 kg			
2@ B57							988 kg			

Calculation Weight Steel deck JL2 B58										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B58							457 kg			
2@ B58							914 kg			

Calculation Weight Steel deck JL2 B59										
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## 材料計算書 Caluculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B59							509 kg			
2@ B59							1018 kg			

Calculation Weight Steel deck JL2 B60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
B60							290 kg			
2@ B60							580 kg			

Calculation Weight Steel deck JL2 B61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B61							509 kg			
2@ B61							1018 kg			

Calculation Weight Steel deck JL2 B62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B62							457 kg			
2@ B62							914 kg			

Calculation Weight Steel deck JL2 B63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B63							494 kg			
2@ B63							988 kg			

Calculation Weight Steel deck JL2 B64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B64							494 kg			
2@ B64							988 kg			

Calculation Weight Steel deck JL2 B65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B65							494 kg			
2@ B65							988 kg			

Calculation Weight Steel deck JL2 B66										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
							<b>B66</b>	<b>362 kg</b>		
							<b>2@ B66</b>	<b>724 kg</b>		

Calculation Weight Steel deck JL2 B67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							<b>B67</b>	<b>494 kg</b>		
							<b>2@ B67</b>	<b>988 kg</b>		

Calculation Weight Steel deck JL2 B68										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							<b>B68</b>	<b>494 kg</b>		
							<b>2@ B68</b>	<b>988 kg</b>		

Calculation Weight Steel deck JL2 B69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		

## 材料計算書 Calculation of Steel Weight

218	BSPL	TCB	M 22* 70			0.523	114	S10T			
							B69	494 kg			
							2@ B69	988 kg			

Calculation Weight Steel deck JL2 B70											
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA			
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA			
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA			
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA			
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA			
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA			
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA			
208	BSPL	TCB	M 22* 70			0.523	109	S10T			
							B70	457 kg			
							2@ B70	914 kg			

Calculation Weight Steel deck JL2 B71											
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks	
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA			
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA			
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA			
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA			
240	BSPL	TCB	M 22* 80			0.553	133	S10T			
							B71	513 kg			
							2@ B71	1026 kg			

Calculation Weight Steel deck JL2 B72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
158	BSPL	TCB	M 22* 80			0.553	87	S10T		

## 材料計算書 Calculation of Steel Weight

B72	331 kg
2@ B72	662 kg

Calculation Weight Steel deck JL2 B73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 80			0.553	121	S10T		
B73							501 kg			
2@ B73							1002 kg			

Calculation Weight Steel deck JL2 B74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B74							494 kg			
2@ B74							988 kg			

Calculation Weight Steel deck JL2 B75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B75							494 kg			
2@ B75							988 kg			

Calculation Weight Steel deck JL2 B76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B76							494 kg			
2@ B76							988 kg			

Calculation Weight Steel deck JL2 B77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B77							494 kg			
2@ B77							988 kg			

Calculation Weight Steel deck JL2 B78										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B78							494 kg			
2@ B78							988 kg			

Calculation Weight Steel deck JL2 B79										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B79							494 kg			



## 材料計算書 Calculation of Steel Weight

2@ B79	988 kg
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Calculation Weight Steel deck JL2 B80										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B80							494 kg			
2@ B80							988 kg			

Calculation Weight Steel deck JL2 B81										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	4473	70.65	94.8	95	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	3205	70.65	67.9	68	SM490YA		
1	BSPL	PL	300* 9	1168	70.65	24.8	25	SM490YA		
234	BSPL	TCB	M 22* 80			0.553	129	S10T		
B81							559 kg			
2@ B81							1118 kg			

Calculation Weight Steel deck JL2 B82										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	1198	70.65	25.4	25	SM490YA		
1	TSPL	PL	300* 9	3265	70.65	69.2	69	SM490YA		
1	TSPL	PL	300* 9	3420	70.65	72.5	72	SM490YA		
1	BSPL	PL	300* 9	1168	70.65	24.8	25	SM490YA		
2	BSPL	PL	300* 9	3205	70.65	67.9	136	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
164	BSPL	TCB	M 22* 80			0.553	91	S10T		
B82							420 kg			
2@ B82							840 kg			

材料計算書 Caluculation of Steel Weight

JL2	76744 kg
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## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck JL3_6										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2845	70.65	60.3	60	SM490YA		
1	TSPL	PL	300* 9	2695	70.65	57.1	57	SM490YA		
1	TSPL	PL	300* 9	3615	70.65	76.6	77	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
1	BSPL	PL	300* 9	2632	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2635	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2638	70.65	55.9	56	SM490YA		
1	BSPL	PL	300* 9	884	70.65	18.7	19	SM490YA		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
JL3_6							488 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL3 B01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2845	70.65	60.3	60	SM490YA		
1	TSPL	PL	300* 9	2695	70.65	57.1	57	SM490YA		
1	TSPL	PL	300* 9	3615	70.65	76.6	77	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
1	BSPL	PL	300* 9	2632	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2635	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2638	70.65	55.9	56	SM490YA		
1	BSPL	PL	300* 9	884	70.65	18.7	19	SM490YA		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
							B01	488 kg		
							2@ B01	976 kg		

Calculation Weight Steel deck JL3 B02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3419	70.65	72.5	72	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
1	TSPL	PL	300* 9	3319	70.65	70.3	70	SM490YA		
1	BSPL	PL	300* 9	888	70.65	18.8	19	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
1	BSPL	PL	300* 9	788	70.65	16.7	17	SM490YA		
220	BSPL	TCB	M 22* 70			0.523	115	S10T		
							B02	501 kg		
							2@ B02	1002 kg		

Calculation Weight Steel deck JL3 B03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3319	70.65	70.3	141	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
2	BSPL	PL	300* 9	788	70.65	16.7	33	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B03	496 kg		
							2@ B03	992 kg		

Calculation Weight Steel deck JL3 B04										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3319	70.65	70.3	141	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
2	BSPL	PL	300* 9	788	70.65	16.7	33	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
<b>B04</b>							<b>496 kg</b>			
<b>2@ B04</b>							<b>992 kg</b>			

Calculation Weight Steel deck JL3 B05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3317	70.65	70.3	70	SM490YA		
1	TSPL	PL	300* 9	2498	70.65	52.9	53	SM490YA		
1	TSPL	PL	300* 9	3316	70.65	70.3	70	SM490YA		
1	BSPL	PL	300* 9	786	70.65	16.7	17	SM490YA		
1	BSPL	PL	300* 9	2439	70.65	51.7	52	SM490YA		
1	BSPL	PL	300* 9	2438	70.65	51.7	52	SM490YA		
1	BSPL	PL	300* 9	2435	70.65	51.6	52	SM490YA		
1	BSPL	PL	300* 9	786	70.65	16.7	17	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
<b>B05</b>							<b>497 kg</b>			
<b>2@ B05</b>							<b>994 kg</b>			

Calculation Weight Steel deck JL3 B06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
<b>B06</b>							<b>493 kg</b>			
<b>2@ B06</b>							<b>986 kg</b>			

Calculation Weight Steel deck JL3 B07										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B07							494 kg			
2@ B07							988 kg			

### Calculation Weight Steel deck JL3 B08

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B08							494 kg			
2@ B08							988 kg			

### Calculation Weight Steel deck JL3 B09

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B09							494 kg			
2@ B09							988 kg			

### Calculation Weight Steel deck JL3 B10

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 75			0.538	117	S10T		

## 材料計算書 Calculation of Steel Weight

B10	497 kg
2@ B10	994 kg

Calculation Weight Steel deck JL3 B11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 75			0.538	88	S10T		
B11							364 kg			
2@ B11							728 kg			

Calculation Weight Steel deck JL3 B12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
154	BSPL	TCB	M 22* 70			0.523	81	S10T		
B12							325 kg			
2@ B12							650 kg			

Calculation Weight Steel deck JL3 B13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 80			0.553	133	S10T		
B13							513 kg			
2@ B13							1026 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL3 B14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 75			0.538	112	S10T		
							B14	460 kg		
							2@ B14	920 kg		

Calculation Weight Steel deck JL3 B15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B15	546 kg		
							2@ B15	1092 kg		

Calculation Weight Steel deck JL3 B16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B16	546 kg		
							2@ B16	1092 kg		

Calculation Weight Steel deck JL3 B17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		



## 材料計算書 Calculation of Steel Weight

1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B17							546 kg			
2@ B17							1092 kg			

Calculation Weight Steel deck JL3 B18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
B18							362 kg			
2@ B18							724 kg			

Calculation Weight Steel deck JL3 B19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B19							634 kg			
2@ B19							1268 kg			

Calculation Weight Steel deck JL3 B20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		

## 材料計算書 Calculation of Steel Weight

B20	494 kg
2@ B20	988 kg

Calculation Weight Steel deck JL3 B21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B21							494 kg			
2@ B21							988 kg			

Calculation Weight Steel deck JL3 B22										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B22							447 kg			
2@ B22							894 kg			

Calculation Weight Steel deck JL3 B23										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B23							509 kg			
2@ B23							1018 kg			

Calculation Weight Steel deck JL3 B24										
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## 材料計算書 Caluculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
B24							290 kg			
2@ B24							580 kg			

Calculation Weight Steel deck JL3 B25										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B25							509 kg			
2@ B25							1018 kg			

Calculation Weight Steel deck JL3 B26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B26							457 kg			
2@ B26							914 kg			

Calculation Weight Steel deck JL3 B27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		

## 材料計算書 Calculation of Steel Weight

4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B27							546 kg			
2@ B27							1092 kg			

Calculation Weight Steel deck JL3 B28										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B28							546 kg			
2@ B28							1092 kg			

Calculation Weight Steel deck JL3 B29										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B29							546 kg			
2@ B29							1092 kg			

Calculation Weight Steel deck JL3 B30										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
B30							362 kg			
2@ B30							724 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck JL3 B31										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B31	354 kg		
							2@ B31	708 kg		

Calculation Weight Steel deck JL3 B32										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B32	494 kg		
							2@ B32	988 kg		

Calculation Weight Steel deck JL3 B33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B33	494 kg		
							2@ B33	988 kg		

Calculation Weight Steel deck JL3 B34										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B34							447 kg			
2@ B34							894 kg			

Calculation Weight Steel deck JL3 B35										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B35							509 kg			
2@ B35							1018 kg			

Calculation Weight Steel deck JL3 B36										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
B36							290 kg			
2@ B36							580 kg			

Calculation Weight Steel deck JL3 B37										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B37							509 kg			
2@ B37							1018 kg			

Calculation Weight Steel deck JL3 B38										
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## 材料計算書 Caluculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
							<b>B38</b>	<b>457 kg</b>		
							<b>2@ B38</b>	<b>914 kg</b>		

Calculation Weight Steel deck JL3 B39										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							<b>B39</b>	<b>546 kg</b>		
							<b>2@ B39</b>	<b>1092 kg</b>		

Calculation Weight Steel deck JL3 B40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							<b>B40</b>	<b>546 kg</b>		
							<b>2@ B40</b>	<b>1092 kg</b>		

Calculation Weight Steel deck JL3 B41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B41							546 kg			
2@ B41							1092 kg			

Calculation Weight Steel deck JL3 B42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
B42							362 kg			
2@ B42							724 kg			

Calculation Weight Steel deck JL3 B43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B43							494 kg			
2@ B43							988 kg			

Calculation Weight Steel deck JL3 B44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B44							494 kg			
2@ B44							988 kg			



## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL3 B45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B45	494 kg		
							2@ B45	988 kg		

Calculation Weight Steel deck JL3 B46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
							B46	447 kg		
							2@ B46	894 kg		

Calculation Weight Steel deck JL3 B47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
							B47	509 kg		
							2@ B47	1018 kg		

Calculation Weight Steel deck JL3 B48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
B48							290 kg			
2@ B48							580 kg			

Calculation Weight Steel deck JL3 B49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B49							509 kg			
2@ B49							1018 kg			

Calculation Weight Steel deck JL3 B50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B50							457 kg			
2@ B50							914 kg			

Calculation Weight Steel deck JL3 B51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		

## 材料計算書 Calculation of Steel Weight

							B51	546 kg			
							2@ B51	1092 kg			

Calculation Weight Steel deck JL3 B52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B52	546 kg		
							2@ B52	1092 kg		

Calculation Weight Steel deck JL3 B53										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B53	546 kg		
							2@ B53	1092 kg		

Calculation Weight Steel deck JL3 B54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
							B54	362 kg		
							2@ B54	724 kg		

Calculation Weight Steel deck JL3 B55										

### 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B55	494 kg		
							2@ B55	988 kg		

#### Calculation Weight Steel deck JL3 B56

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B56	494 kg		
							2@ B56	988 kg		

#### Calculation Weight Steel deck JL3 B57

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B57	494 kg		
							2@ B57	988 kg		

#### Calculation Weight Steel deck JL3 B58

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B58							447 kg			
2@ B58							894 kg			

Calculation Weight Steel deck JL3 B59										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B59							509 kg			
2@ B59							1018 kg			

Calculation Weight Steel deck JL3 B60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
B60							290 kg			
2@ B60							580 kg			

Calculation Weight Steel deck JL3 B61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B61							509 kg			
2@ B61							1018 kg			

Calculation Weight Steel deck JL3 B62										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B62							457 kg			
2@ B62							914 kg			

Calculation Weight Steel deck JL3 B63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B63							546 kg			
2@ B63							1092 kg			

Calculation Weight Steel deck JL3 B64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B64							546 kg			
2@ B64							1092 kg			

Calculation Weight Steel deck JL3 B65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		

## 材料計算書 Caluculation of Steel Weight

4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B65							546 kg			
2@ B65							1092 kg			

Calculation Weight Steel deck JL3 B66										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
B66							362 kg			
2@ B66							724 kg			

Calculation Weight Steel deck JL3 B67										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B67							494 kg			
2@ B67							988 kg			

Calculation Weight Steel deck JL3 B68										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B68							494 kg			
2@ B68							988 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL3 B69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B69	494 kg		
							2@ B69	988 kg		

Calculation Weight Steel deck JL3 B70										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
							B70	447 kg		
							2@ B70	894 kg		

Calculation Weight Steel deck JL3 B71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 80			0.553	133	S10T		
							B71	513 kg		
							2@ B71	1026 kg		

Calculation Weight Steel deck JL3 B72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		



## 材料計算書 Calculation of Steel Weight

1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
154	BSPL	TCB	M 22* 80			0.553	85	S10T		
B72							380 kg			
2@ B72							760 kg			

Calculation Weight Steel deck JL3 B73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 75			0.538	117	S10T		
B73							497 kg			
2@ B73							994 kg			

Calculation Weight Steel deck JL3 B74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B74							494 kg			
2@ B74							988 kg			

Calculation Weight Steel deck JL3 B75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		

## 材料計算書 Calculation of Steel Weight

B75	494 kg
2@ B75	988 kg

Calculation Weight Steel deck JL3 B76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B76							494 kg			
2@ B76							988 kg			

Calculation Weight Steel deck JL3 B77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B77							494 kg			
2@ B77							988 kg			

Calculation Weight Steel deck JL3 B78										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B78							494 kg			
2@ B78							988 kg			

Calculation Weight Steel deck JL3 B79										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

### 材料計算書 Calculation of Steel Weight

2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B79							494 kg			
2@ B79							988 kg			

Calculation Weight Steel deck JL3 B80										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B80							494 kg			
2@ B80							988 kg			

Calculation Weight Steel deck JL3 B81										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	4473	70.65	94.8	95	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
2	BSPL	PL	300* 9	3205	70.65	67.9	136	SM490YA		
1	BSPL	PL	300* 9	1168	70.65	24.8	25	SM490YA		
154	BSPL	TCB	M 22* 70			0.523	81	S10T		
B81							528 kg			
2@ B81							1056 kg			

Calculation Weight Steel deck JL3 B82										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	1198	70.65	25.4	25	SM490YA		
1	TSPL	PL	300* 9	3265	70.65	69.2	69	SM490YA		
1	TSPL	PL	300* 9	3420	70.65	72.5	72	SM490YA		
1	BSPL	PL	300* 9	1168	70.65	24.8	25	SM490YA		

## 材料計算書 Caluculation of Steel Weight

2	BSPL	PL	300* 9	3205	70.65	67.9	136	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
B82							415 kg			
2@ B82							830 kg			
JL3							78216 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck JL4_5 B01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2845	70.65	60.3	60	SM490YA		
1	TSPL	PL	300* 9	2695	70.65	57.1	57	SM490YA		
1	TSPL	PL	300* 9	3615	70.65	76.6	77	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
1	BSPL	PL	300* 9	2632	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2635	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2638	70.65	55.9	56	SM490YA		
1	BSPL	PL	300* 9	884	70.65	18.7	19	SM490YA		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
B01							488 kg			
JL4_5							488 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL4 B01										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2845	70.65	60.3	60	SM490YA		
1	TSPL	PL	300* 9	2695	70.65	57.1	57	SM490YA		
1	TSPL	PL	300* 9	3615	70.65	76.6	77	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
1	BSPL	PL	300* 9	2632	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2635	70.65	55.8	56	SM490YA		
1	BSPL	PL	300* 9	2638	70.65	55.9	56	SM490YA		
1	BSPL	PL	300* 9	884	70.65	18.7	19	SM490YA		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
							B01	488 kg		
							2@ B01	976 kg		

Calculation Weight Steel deck JL4 B02										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3419	70.65	72.5	72	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
1	TSPL	PL	300* 9	3319	70.65	70.3	70	SM490YA		
1	BSPL	PL	300* 9	888	70.65	18.8	19	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
1	BSPL	PL	300* 9	788	70.65	16.7	17	SM490YA		
200	BSPL	TCB	M 22* 70			0.523	105	S10T		
							B02	491 kg		
							2@ B02	982 kg		

Calculation Weight Steel deck JL4 B03										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3319	70.65	70.3	141	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
2	BSPL	PL	300* 9	788	70.65	16.7	33	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B03	496 kg		
							2@ B03	992 kg		

Calculation Weight Steel deck JL4 B04										
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## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3319	70.65	70.3	141	SM490YA		
1	TSPL	PL	300* 9	2499	70.65	53.0	53	SM490YA		
2	BSPL	PL	300* 9	788	70.65	16.7	33	SM490YA		
3	BSPL	PL	300* 9	2439	70.65	51.7	155	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
<b>B04</b>							<b>496 kg</b>			
<b>2@ B04</b>							<b>992 kg</b>			

Calculation Weight Steel deck JL4 B05										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3317	70.65	70.3	70	SM490YA		
1	TSPL	PL	300* 9	2498	70.65	52.9	53	SM490YA		
1	TSPL	PL	300* 9	3316	70.65	70.3	70	SM490YA		
1	BSPL	PL	300* 9	786	70.65	16.7	17	SM490YA		
1	BSPL	PL	300* 9	2439	70.65	51.7	52	SM490YA		
1	BSPL	PL	300* 9	2438	70.65	51.7	52	SM490YA		
1	BSPL	PL	300* 9	2435	70.65	51.6	52	SM490YA		
1	BSPL	PL	300* 9	786	70.65	16.7	17	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
<b>B05</b>							<b>497 kg</b>			
<b>2@ B05</b>							<b>994 kg</b>			

Calculation Weight Steel deck JL4 B06										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
<b>B06</b>							<b>493 kg</b>			
<b>2@ B06</b>							<b>986 kg</b>			

Calculation Weight Steel deck JL4 B07										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B07							494 kg			
2@ B07							988 kg			

### Calculation Weight Steel deck JL4 B08

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B08							494 kg			
2@ B08							988 kg			

### Calculation Weight Steel deck JL4 B09

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B09							494 kg			
2@ B09							988 kg			

### Calculation Weight Steel deck JL4 B10

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 75			0.538	117	S10T		



## 材料計算書 Calculation of Steel Weight

B10	497 kg
2@ B10	994 kg

Calculation Weight Steel deck JL4 B11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 75			0.538	88	S10T		
B11							364 kg			
2@ B11							728 kg			

Calculation Weight Steel deck JL4 B12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
154	BSPL	TCB	M 22* 70			0.523	81	S10T		
B12							325 kg			
2@ B12							650 kg			

Calculation Weight Steel deck JL4 B13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 80			0.553	133	S10T		
B13							513 kg			
2@ B13							1026 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL4 B14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 75			0.538	112	S10T		
							B14	460 kg		
							2@ B14	920 kg		

Calculation Weight Steel deck JL4 B15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B15	546 kg		
							2@ B15	1092 kg		

Calculation Weight Steel deck JL4 B16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B16	546 kg		
							2@ B16	1092 kg		

Calculation Weight Steel deck JL4 B17										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B17							546 kg			
2@ B17							1092 kg			

Calculation Weight Steel deck JL4 B18										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
B18							362 kg			
2@ B18							724 kg			

Calculation Weight Steel deck JL4 B19										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B19							494 kg			
2@ B19							988 kg			

Calculation Weight Steel deck JL4 B20										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B20							494 kg			

## 材料計算書 Caluculation of Steel Weight

2@ B20	988 kg
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Calculation Weight Steel deck JL4 B21										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B21							494 kg			
2@ B21							988 kg			

Calculation Weight Steel deck JL4 B22										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B22							447 kg			
2@ B22							894 kg			

Calculation Weight Steel deck JL4 B23										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B23							509 kg			
2@ B23							1018 kg			

Calculation Weight Steel deck JL4 B24										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
B24							290 kg			
2@ B24							580 kg			

Calculation Weight Steel deck JL4 B25										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B25							509 kg			
2@ B25							1018 kg			

Calculation Weight Steel deck JL4 B26										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B26							457 kg			
2@ B26							914 kg			

Calculation Weight Steel deck JL4 B27										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		

## 材料計算書 Calculation of Steel Weight

218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B27		546 kg	
							2@ B27		1092 kg	

Calculation Weight Steel deck JL4 B28										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B28		546 kg	
							2@ B28		1092 kg	

Calculation Weight Steel deck JL4 B29										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B29		546 kg	
							2@ B29		1092 kg	

Calculation Weight Steel deck JL4 B30										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
							B30		362 kg	
							2@ B30		724 kg	

Calculation Weight Steel deck JL4 B31										
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## 材料計算書 Caluculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B31							494 kg			
2@ B31							988 kg			

Calculation Weight Steel deck JL4 B32										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B32							494 kg			
2@ B32							988 kg			

Calculation Weight Steel deck JL4 B33										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B33							494 kg			
2@ B33							988 kg			

Calculation Weight Steel deck JL4 B34										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B34							447 kg			
2@ B34							894 kg			

Calculation Weight Steel deck JL4 B35										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B35							509 kg			
2@ B35							1018 kg			

Calculation Weight Steel deck JL4 B36										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
B36							290 kg			
2@ B36							580 kg			

Calculation Weight Steel deck JL4 B37										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B37							509 kg			
2@ B37							1018 kg			

Calculation Weight Steel deck JL4 B38										
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## 材料計算書 Caluculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
							<b>B38</b>	<b>457 kg</b>		
							<b>2@ B38</b>	<b>914 kg</b>		

Calculation Weight Steel deck JL4 B39										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							<b>B39</b>	<b>546 kg</b>		
							<b>2@ B39</b>	<b>1092 kg</b>		

Calculation Weight Steel deck JL4 B40										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							<b>B40</b>	<b>546 kg</b>		
							<b>2@ B40</b>	<b>1092 kg</b>		

Calculation Weight Steel deck JL4 B41										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
<b>B41</b>							<b>546 kg</b>			
<b>2@ B41</b>							<b>1092 kg</b>			

Calculation Weight Steel deck JL4 B42										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
<b>B42</b>							<b>362 kg</b>			
<b>2@ B42</b>							<b>724 kg</b>			

Calculation Weight Steel deck JL4 B43										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
<b>B43</b>							<b>494 kg</b>			
<b>2@ B43</b>							<b>988 kg</b>			

Calculation Weight Steel deck JL4 B44										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
<b>B44</b>							<b>494 kg</b>			
<b>2@ B44</b>							<b>988 kg</b>			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL4 B45										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B45	494 kg		
							2@ B45	988 kg		

Calculation Weight Steel deck JL4 B46										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
							B46	447 kg		
							2@ B46	894 kg		

Calculation Weight Steel deck JL4 B47										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
							B47	509 kg		
							2@ B47	1018 kg		

Calculation Weight Steel deck JL4 B48										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
B48							290 kg			
2@ B48							580 kg			

Calculation Weight Steel deck JL4 B49										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
B49							509 kg			
2@ B49							1018 kg			

Calculation Weight Steel deck JL4 B50										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B50							457 kg			
2@ B50							914 kg			

Calculation Weight Steel deck JL4 B51										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		

## 材料計算書 Calculation of Steel Weight

		B51	546 kg
		2@ B51	1092 kg

Calculation Weight Steel deck JL4 B52										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
		B52	546 kg							
		2@ B52	1092 kg							

Calculation Weight Steel deck JL4 B53										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
		B53	546 kg							
		2@ B53	1092 kg							

Calculation Weight Steel deck JL4 B54										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
		B54	362 kg							
		2@ B54	724 kg							

Calculation Weight Steel deck JL4 B55										

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
								B55		494 kg
								2@ B55		988 kg

## Calculation Weight Steel deck JL4 B56

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
								B56		494 kg
								2@ B56		988 kg

## Calculation Weight Steel deck JL4 B57

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
								B57		494 kg
								2@ B57		988 kg

## Calculation Weight Steel deck JL4 B58

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
							B58	447 kg		
							2@ B58	894 kg		

Calculation Weight Steel deck JL4 B59										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
							B59	509 kg		
							2@ B59	1018 kg		

Calculation Weight Steel deck JL4 B60										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
144	BSPL	TCB	M 22* 75			0.538	77	S10T		
							B60	290 kg		
							2@ B60	580 kg		

Calculation Weight Steel deck JL4 B61										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 75			0.538	129	S10T		
							B61	509 kg		
							2@ B61	1018 kg		

Calculation Weight Steel deck JL4 B62										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

## 材料計算書 Calculation of Steel Weight

Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
B62							457 kg			
2@ B62							914 kg			

Calculation Weight Steel deck JL4 B63										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B63							546 kg			
2@ B63							1092 kg			

Calculation Weight Steel deck JL4 B64										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B64							546 kg			
2@ B64							1092 kg			

Calculation Weight Steel deck JL4 B65										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		



## 材料計算書 Caluculation of Steel Weight

4	BSPL	PL	300* 9	2430	70.65	51.5	206	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B65							546 kg			
2@ B65							1092 kg			

Calculation Weight Steel deck JL4 B66										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
B66							362 kg			
2@ B66							724 kg			

Calculation Weight Steel deck JL4 B67										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B67							494 kg			
2@ B67							988 kg			

Calculation Weight Steel deck JL4 B68										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B68							494 kg			
2@ B68							988 kg			

## 材料計算書 Calculation of Steel Weight

Calculation Weight Steel deck JL4 B69										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B69	494 kg		
							2@ B69	988 kg		

Calculation Weight Steel deck JL4 B70										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
2	BSPL	PL	300* 9	1930	70.65	40.9	82	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
208	BSPL	TCB	M 22* 70			0.523	109	S10T		
							B70	447 kg		
							2@ B70	894 kg		

Calculation Weight Steel deck JL4 B71										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	2560	70.65	54.3	109	SM490YA		
1	TSPL	PL	300* 9	3990	70.65	84.6	85	SM490YA		
2	BSPL	PL	300* 9	530	70.65	11.2	22	SM490YA		
4	BSPL	PL	300* 9	1930	70.65	40.9	164	SM490YA		
240	BSPL	TCB	M 22* 80			0.553	133	S10T		
							B71	513 kg		
							2@ B71	1026 kg		

Calculation Weight Steel deck JL4 B72										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	2560	70.65	54.3	54	SM490YA		

## 材料計算書 Calculation of Steel Weight

1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	810	70.65	17.2	17	SM490YA		
1	BSPL	PL	300* 9	530	70.65	11.2	11	SM490YA		
1	BSPL	PL	300* 9	1930	70.65	40.9	41	SM490YA		
2	BSPL	PL	300* 9	2430	70.65	51.5	103	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
154	BSPL	TCB	M 22* 80			0.553	85	S10T		
B72							380 kg			
2@ B72							760 kg			

Calculation Weight Steel deck JL4 B73										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 75			0.538	117	S10T		
B73							497 kg			
2@ B73							994 kg			

Calculation Weight Steel deck JL4 B74										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B74							494 kg			
2@ B74							988 kg			

Calculation Weight Steel deck JL4 B75										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		

## 材料計算書 Calculation of Steel Weight

B75	494 kg
2@ B75	988 kg

Calculation Weight Steel deck JL4 B76										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B76	494 kg		
							2@ B76	988 kg		

Calculation Weight Steel deck JL4 B77										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B77	494 kg		
							2@ B77	988 kg		

Calculation Weight Steel deck JL4 B78										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
							B78	494 kg		
							2@ B78	988 kg		

Calculation Weight Steel deck JL4 B79										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks

### 材料計算書 Calculation of Steel Weight

2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B79							494 kg			
2@ B79							988 kg			

Calculation Weight Steel deck JL4 B80										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	TSPL	PL	300* 9	3310	70.65	70.2	140	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
2	BSPL	PL	300* 9	780	70.65	16.5	33	SM490YA		
3	BSPL	PL	300* 9	2430	70.65	51.5	154	SM490YA		
218	BSPL	TCB	M 22* 70			0.523	114	S10T		
B80							494 kg			
2@ B80							988 kg			

Calculation Weight Steel deck JL4 B81										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	3310	70.65	70.2	70	SM490YA		
1	TSPL	PL	300* 9	2490	70.65	52.8	53	SM490YA		
1	TSPL	PL	300* 9	4473	70.65	94.8	95	SM490YA		
1	BSPL	PL	300* 9	780	70.65	16.5	16	SM490YA		
1	BSPL	PL	300* 9	2430	70.65	51.5	52	SM490YA		
2	BSPL	PL	300* 9	3205	70.65	67.9	136	SM490YA		
1	BSPL	PL	300* 9	1168	70.65	24.8	25	SM490YA		
154	BSPL	TCB	M 22* 70			0.523	81	S10T		
B81							528 kg			
2@ B81							1056 kg			

Calculation Weight Steel deck JL4 B82										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
1	TSPL	PL	300* 9	1198	70.65	25.4	25	SM490YA		
1	TSPL	PL	300* 9	3265	70.65	69.2	69	SM490YA		
1	TSPL	PL	300* 9	3420	70.65	72.5	72	SM490YA		
1	BSPL	PL	300* 9	1168	70.65	24.8	25	SM490YA		

## 材料計算書 Calculation of Steel Weight

2	BSPL	PL	300* 9	3205	70.65	67.9	136	SM490YA		
1	BSPL	PL	300* 9	100	70.65	2.12	2	SM490YA		
164	BSPL	TCB	M 22* 70			0.523	86	S10T		
							B82		415 kg	
							2@ B82		830 kg	
							JL4		78196 kg	

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 支点上横桁(Deck部) P13										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1643* 9	1285	70.65	149	298	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	5135	70.65	222	222	SM400A		
1	WEB	PL	1701* 9	5135	70.65	617	617	SM400A		
2	HSTFF	PL	140* 11	2350	86.35	28.4	57	SM400A		
1	VSTFF	PL	130* 11	1542	86.35	17.3	17	SM400A		
2		PL	100* 9	5135	70.65	36.3	73	SM400A		
1	FLG	PL	250* 12	5135	94.20	121	121	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1349	70.65	30.5	122	SS400		
4	SPL	PL	320* 9	1374	70.65	31.1	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1432	70.65	32.4	130	SS400		
2	SPL	PL	170* 9	4780	70.65	57.4	115	SS400		
256	SPL	TCB	M 22* 65			0.508	130	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
P13							3021 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 支点上横桁(Deck部) P20										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1643* 9	1285	70.65	149	298	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	2935	70.65	127	127	SM400A		
1	WEB	PL	1701* 9	2935	70.65	353	353	SM400A		
2	HSTFF	PL	140* 11	1250	86.35	15.1	30	SM400A		
1	VSTFF	PL	130* 11	1542	86.35	17.3	17	SM400A		
2		PL	100* 9	2935	70.65	20.7	41	SM400A		
1	FLG	PL	250* 12	2935	94.20	69.1	69	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1349	70.65	30.5	122	SS400		
4	SPL	PL	320* 9	1374	70.65	31.1	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1432	70.65	32.4	130	SS400		
2	SPL	PL	170* 9	2580	70.65	31.0	62	SS400		
212	SPL	TCB	M 22* 65			0.508	108	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
P20							2476 kg			



## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 支点上横桁(Deck部) P14										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1632* 9	1285	70.65	148	296	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	2935	70.65	127	127	SM400A		
1	WEB	PL	1690* 9	2935	70.65	350	350	SM400A		
2	HSTFF	PL	140* 11	1250	86.35	15.1	30	SM400A		
1	VSTFF	PL	130* 11	1531	86.35	17.2	17	SM400A		
2		PL	100* 9	2935	70.65	20.7	41	SM400A		
1	FLG	PL	250* 12	2935	94.20	69.1	69	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1338	70.65	30.3	121	SS400		
4	SPL	PL	320* 9	1363	70.65	30.8	123	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1421	70.65	32.1	128	SS400		
2	SPL	PL	170* 9	2580	70.65	31.0	62	SS400		
212	SPL	TCB	M 22* 65			0.508	108	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
P14							2467 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 支点上横桁(Deck部) P15										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1632* 9	1285	70.65	148	296	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	2935	70.65	127	127	SM400A		
1	WEB	PL	1698* 9	2935	70.65	352	352	SM400A		
2	HSTFF	PL	140* 11	1250	86.35	15.1	30	SM400A		
1	VSTFF	PL	130* 11	1539	86.35	17.3	17	SM400A		
2		PL	100* 9	2935	70.65	20.7	41	SM400A		
1	FLG	PL	250* 12	2935	94.20	69.1	69	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1340	70.65	30.3	121	SS400		
4	SPL	PL	320* 9	1371	70.65	31.0	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1429	70.65	32.3	129	SS400		
2	SPL	PL	170* 9	2580	70.65	31.0	62	SS400		
212	SPL	TCB	M 22* 65			0.508	108	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
P15							2471 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 支点上横桁(Deck部) P16										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1637* 9	1285	70.65	149	298	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	2935	70.65	127	127	SM400A		
1	WEB	PL	1695* 9	2935	70.65	351	351	SM400A		
2	HSTFF	PL	140* 11	1250	86.35	15.1	30	SM400A		
1	VSTFF	PL	130* 11	1536	86.35	17.2	17	SM400A		
2		PL	100* 9	2935	70.65	20.7	41	SM400A		
1	FLG	PL	250* 12	2935	94.20	69.1	69	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1343	70.65	30.4	122	SS400		
4	SPL	PL	320* 9	1368	70.65	30.9	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1426	70.65	32.2	129	SS400		
2	SPL	PL	170* 9	2580	70.65	31.0	62	SS400		
212	SPL	TCB	M 22* 65			0.508	108	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
P16							2473 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 支点上横桁(Deck部) P17										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1638* 9	1285	70.65	149	298	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	2935	70.65	127	127	SM400A		
1	WEB	PL	1696* 9	2935	70.65	352	352	SM400A		
2	HSTFF	PL	140* 11	1250	86.35	15.1	30	SM400A		
1	VSTFF	PL	130* 11	1537	86.35	17.3	17	SM400A		
2		PL	100* 9	2935	70.65	20.7	41	SM400A		
1	FLG	PL	250* 12	2935	94.20	69.1	69	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1343	70.65	30.4	122	SS400		
4	SPL	PL	320* 9	1368	70.65	30.9	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1427	70.65	32.3	129	SS400		
2	SPL	PL	170* 9	2580	70.65	31.0	62	SS400		
212	SPL	TCB	M 22* 65			0.508	108	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
P17							2474 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 支点上横桁(Deck部) P18										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1639* 9	1285	70.65	149	298	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	2935	70.65	127	127	SM400A		
1	WEB	PL	1697* 9	2935	70.65	352	352	SM400A		
2	HSTFF	PL	140* 11	1250	86.35	15.1	30	SM400A		
1	VSTFF	PL	130* 11	1538	86.35	17.3	17	SM400A		
2		PL	100* 9	2935	70.65	20.7	41	SM400A		
1	FLG	PL	250* 12	2935	94.20	69.1	69	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1345	70.65	30.4	122	SS400		
4	SPL	PL	320* 9	1370	70.65	31.0	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1428	70.65	32.3	129	SS400		
2	SPL	PL	170* 9	2580	70.65	31.0	62	SS400		
212	SPL	TCB	M 22* 65			0.508	108	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
P18							2474 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 支点上横桁(Deck部) P19										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1634* 9	1285	70.65	148	296	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	2935	70.65	127	127	SM400A		
1	WEB	PL	1692* 9	2935	70.65	351	351	SM400A		
2	HSTFF	PL	140* 11	1250	86.35	15.1	30	SM400A		
1	VSTFF	PL	130* 11	1533	86.35	17.2	17	SM400A		
2		PL	100* 9	2935	70.65	20.7	41	SM400A		
1	FLG	PL	250* 12	2935	94.20	69.1	69	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1340	70.65	30.3	121	SS400		
4	SPL	PL	320* 9	1365	70.65	30.9	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1423	70.65	32.2	129	SS400		
2	SPL	PL	170* 9	2580	70.65	31.0	62	SS400		
212	SPL	TCB	M 22* 65			0.508	108	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
P19							2470 kg			

## 材料計算書 Caluculation of Steel Weight

支点上横桁(Deckb部)

20326 kg

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 中間横桁(Deck部) CRS1										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1643* 9	1285	70.65	149	298	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	4782	70.65	207	207	SM400A		
1	WEB	PL	1701* 9	4782	70.65	575	575	SM400A		
2	HSTFF	PL	140* 11	2174	86.35	26.3	53	SM400A		
1	VSTFF	PL	130* 11	1542	86.35	17.3	17	SM400A		
2		PL	100* 9	4782	70.65	33.8	68	SM400A		
1	FLG	PL	250* 12	4782	94.20	113	113	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1349	70.65	30.5	122	SS400		
4	SPL	PL	320* 9	1374	70.65	31.1	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1432	70.65	32.4	130	SS400		
2	SPL	PL	170* 9	4427	70.65	53.2	106	SS400		
254	SPL	TCB	M 22* 65			0.508	129	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
CRS1							2937 kg			



## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 中間横桁(Deck部) CRS2										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1643* 9	1285	70.65	149	298	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	4280	70.65	185	185	SM400A		
1	WEB	PL	1701* 9	4280	70.65	514	514	SM400A		
2	HSTFF	PL	140* 11	2174	86.35	26.3	53	SM400A		
1	VSTFF	PL	130* 11	1542	86.35	17.3	17	SM400A		
2		PL	100* 9	4280	70.65	30.2	60	SM400A		
1	FLG	PL	250* 12	4280	94.20	101	101	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1349	70.65	30.5	122	SS400		
4	SPL	PL	320* 9	1374	70.65	31.1	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1432	70.65	32.4	130	SS400		
2	SPL	PL	170* 9	2825	70.65	33.9	68	SS400		
242	SPL	TCB	M 22* 65			0.508	123	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
CRS2							2790 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 中間横桁(Deck部) CRS3										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	Piece Weigh	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1643* 9	1285	70.65	149	298	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	3777	70.65	164	164	SM400A		
1	WEB	PL	1701* 9	3777	70.65	454	454	SM400A		
2	HSTFF	PL	140* 11	2174	86.35	26.3	53	SM400A		
1	VSTFF	PL	130* 11	1542	86.35	17.3	17	SM400A		
2		PL	100* 9	3777	70.65	26.7	53	SM400A		
1	FLG	PL	250* 12	3777	94.20	88.9	89	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1349	70.65	30.5	122	SS400		
4	SPL	PL	320* 9	1374	70.65	31.1	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1432	70.65	32.4	130	SS400		
2	SPL	PL	170* 9	3422	70.65	41.1	82	SS400		
234	SPL	TCB	M 22* 65			0.508	119	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
CRS3							2700 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 中間横桁(Deck部) CRS4										
Quantit	Item	Category	Dimension of Section	Length	Unit Weigh	iece Weigh	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1643* 9	1285	70.65	149	298	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	3274	70.65	142	142	SM400A		
1	WEB	PL	1701* 9	3274	70.65	393	393	SM400A		
2	HSTFF	PL	140* 11	2174	86.35	26.3	53	SM400A		
1	VSTFF	PL	130* 11	1542	86.35	17.3	17	SM400A		
2		PL	100* 9	3274	70.65	23.1	46	SM400A		
1	FLG	PL	250* 12	3274	94.20	77.1	77	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1349	70.65	30.5	122	SS400		
4	SPL	PL	320* 9	1374	70.65	31.1	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1432	70.65	32.4	130	SS400		
2	SPL	PL	170* 9	2919	70.65	35.1	70	SS400		
226	SPL	TCB	M 22* 65			0.508	115	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
CRS4							2582 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 中間横桁(Deck部) CRS5										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	621* 9	1285	70.65	56.4	113	SM400A		
2	WEB	PL	1643* 9	1285	70.65	149	298	SM400A		
2	HSTFF	PL	140* 11	930	86.35	11.2	22	SM400A		
4		PL	100* 9	1285	70.65	9.08	36	SM400A		
2	FLG	PL	250* 12	1285	94.20	30.3	61	SM400A		
1	WEB	PL	613* 9	2935	70.65	127	127	SM400A		
1	WEB	PL	1701* 9	2935	70.65	353	353	SM400A		
2	HSTFF	PL	140* 11	2174	86.35	26.3	53	SM400A		
1	VSTFF	PL	130* 11	1542	86.35	17.3	17	SM400A		
2		PL	100* 9	2935	70.65	20.7	41	SM400A		
1	FLG	PL	250* 12	2935	94.20	69.1	69	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	610	70.65	13.8	110	SS400		
4	SPL	PL	320* 9	1349	70.65	30.5	122	SS400		
4	SPL	PL	320* 9	1374	70.65	31.1	124	SS400		
4	SPL	PL	170* 9	934	70.65	11.2	45	SS400		
364	SPL	TCB	M 22* 65			0.508	185	S10T		
16	SPL	PL	80* 9	320	70.65	1.81	29	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	250* 9	320	70.65	5.65	23	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	610	70.65	13.8	55	SS400		
4	SPL	PL	320* 9	1432	70.65	32.4	130	SS400		
2	SPL	PL	170* 9	2580	70.65	31.0	62	SS400		
218	SPL	TCB	M 22* 65			0.508	111	S10T		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
2	SPL	PL	250* 9	320	70.65	5.65	11	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
CRS5							2502 kg			
70@ CRS5							175140 kg			

## 材料計算書 Caluculation of Steel Weight

中間横桁(Deck部)	186149 kg

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 横リブ(Deck部) crb1										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	5111	70.65	277	277	SM400A		
1	FLG	PL	200* 10	5111	78.50	80.2	80	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb1							1073 kg			

Calculation Weight Steel deck 横リブ(Deck部) crb2										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	5038	70.65	273	273	SM400A		
1	FLG	PL	200* 10	5038	78.50	79.1	79	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		

## 材料計算書 Calculation of Steel Weight

4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb2										
1068 kg										

Calculation Weight Steel deck 横リブ(Deck部) crb3										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	4918	70.65	267	267	SM400A		
1	FLG	PL	200* 10	4918	78.50	77.2	77	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb3										
1060 kg										

Calculation Weight Steel deck 横リブ(Deck部) crb4										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		

## 材料計算書 Calculation of Steel Weight

2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	4657	70.65	253	253	SM400A		
1	FLG	PL	200* 10	4657	78.50	73.1	73	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
							crb4	1042 kg		

Calculation Weight Steel deck 横リブ(Deck部) crb5										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	4531	70.65	246	246	SM400A		
1	FLG	PL	200* 10	4531	78.50	71.1	71	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		



## 材料計算書 Caluculation of Steel Weight

2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb5										
1033 kg										

Calculation Weight Steel deck 横リブ(Deck部) crb6										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	4405	70.65	239	239	SM400A		
1	FLG	PL	200* 10	4405	78.50	69.2	69	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb6										
1024 kg										

Calculation Weight Steel deck 横リブ(Deck部) crb7										
Quantit	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	4154	70.65	225	225	SM400A		
1	FLG	PL	200* 10	4154	78.50	65.2	65	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		

## 材料計算書 Calculation of Steel Weight

48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb7										
							1006 kg			

Calculation Weight Steel deck 横引 <sup>レ</sup> (Deck部) crb8										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	4028	70.65	219	219	SM400A		
1	FLG	PL	200* 10	4028	78.50	63.2	63	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb8										
							998 kg			

## 材料計算書 Caluculation of Steel Weight

Calculation Weight Steel deck 横リブ(Deck部) crb9										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	3903	70.65	212	212	SM400A		
1	FLG	PL	200* 10	3903	78.50	61.3	61	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb9							989 kg			

Calculation Weight Steel deck 横リブ(Deck部) crb10										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	3651	70.65	198	198	SM400A		
1	FLG	PL	200* 10	3651	78.50	57.3	57	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		

## 材料計算書 Calculation of Steel Weight

96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb10							971 kg			

Calculation Weight Steel deck 横リブ(Deck部) crb11										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	3526	70.65	191	191	SM400A		
1	FLG	PL	200* 10	3526	78.50	55.4	55	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb11							962 kg			

Calculation Weight Steel deck 横リブ(Deck部) crb12										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		

## 材料計算書 Caluculation of Steel Weight

2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	3400	70.65	184	184	SM400A		
1	FLG	PL	200* 10	3400	78.50	53.4	53	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb12								953 kg		

Calculation Weight Steel deck 横リブ(Deck部) crb13										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	3149	70.65	171	171	SM400A		
1	FLG	PL	200* 10	3149	78.50	49.4	49	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		

## 材料計算書 Calculation of Steel Weight

48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb13							936 kg			

Calculation Weight Steel deck 横リブ(Deck部) crb14										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	3037	70.65	165	165	SM400A		
1	FLG	PL	200* 10	3037	78.50	47.7	48	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
crb14							929 kg			

Calculation Weight Steel deck 横リブ(Deck部) crb15										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	2965	70.65	161	161	SM400A		
1	FLG	PL	200* 10	2965	78.50	46.6	47	SM400A		

## 材料計算書 Calculation of Steel Weight

4	SPL	PL	320* 9	520	70.65	11.8	47	SS400			
48	SPL	TCB	M 22* 65			0.508	24	S10T			
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400			
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400			
16	SPL	TCB	M 22* 65			0.508	8	S10T			
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400			
96	SPL	TCB	M 22* 65			0.508	49	S10T			
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400			
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400			
32	SPL	TCB	M 22* 65			0.508	16	S10T			
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400			
48	SPL	TCB	M 22* 65			0.508	24	S10T			
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400			
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400			
16	SPL	TCB	M 22* 65			0.508	8	S10T			
crb15											
								924 kg			

Calculation Weight Steel deck 横リブ(Deck部) crb16										
Quantity	Item	Category	Dimension of Section	Length	Unit Weight	Piece Weight	Weight	Grade	Net	Remarks
2	WEB	PL	602* 9	1113	70.65	47.3	95	SM400A		
2	FLG	PL	200* 10	1017	78.50	16.0	32	SM400A		
2	WEB	PL	750* 9	1300	70.65	68.9	138	SM400A		
2	FLG	PL	200* 10	1285	78.50	20.2	40	SM400A		
1	WEB	PL	768* 9	2935	70.65	159	159	SM400A		
1	FLG	PL	200* 10	2935	78.50	46.1	46	SM400A		
4	SPL	PL	320* 9	520	70.65	11.8	47	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		
8	SPL	PL	320* 9	630	70.65	14.2	114	SS400		
96	SPL	TCB	M 22* 65			0.508	49	S10T		
4	SPL	PL	200* 9	320	70.65	4.52	18	SS400		
8	SPL	PL	80* 9	320	70.65	1.81	14	SS400		
32	SPL	TCB	M 22* 65			0.508	16	S10T		
4	SPL	PL	320* 9	630	70.65	14.2	57	SS400		
48	SPL	TCB	M 22* 65			0.508	24	S10T		
2	SPL	PL	200* 9	320	70.65	4.52	9	SS400		
4	SPL	PL	80* 9	320	70.65	1.81	7	SS400		
16	SPL	TCB	M 22* 65			0.508	8	S10T		

## 材料計算書 Caluculation of Steel Weight

crb16	921 kg
228@ crb16	209988 kg
横リブ(Deck部)	224956 kg
鋼床版	4250061 kg
設計重量	4250061 kg



## Assembled Block Weight

Unit: Kn

	G-1	G-2	G-3	G-4
BLK-1	21.701	20.566	20.624	21.701
BLK-2	25.071	22.234	22.234	25.071
BLK-3	26.537	24.253	24.253	26.537
BLK-4	27.827	25.427	25.427	27.827
BLK-5	27.804	25.424	25.424	27.827
BLK-6	27.413	25.236	25.236	27.429
BLK-7	26.052	23.439	23.439	26.052
BLK-8	22.919	21.151	21.151	22.919
BLK-9	21.700	21.148	21.148	21.700
BLK-10	23.341	23.624	23.624	23.341
BLK-11	21.123	23.214	23.214	21.123
BLK-12	22.988	23.938	23.938	22.988
BLK-13	27.762	30.105	30.105	27.762
BLK-14	22.126	21.673	21.673	22.126
BLK-15	21.996	21.854	21.854	21.996
BLK-16	21.706	21.483	21.483	21.706
BLK-17	21.876	21.516	21.516	21.876
BLK-18	16.993	16.591	16.591	16.993
BLK-19	22.548	21.506	21.506	22.548
BLK-20	22.149	20.912	20.912	22.149
BLK-21	22.149	20.912	20.912	22.149
BLK-22	20.837	22.128	22.128	20.837
BLK-23	25.634	26.501	26.501	25.634
BLK-24	18.086	18.260	18.260	18.086
BLK-25	24.799	25.763	25.763	24.799
BLK-26	20.005	21.026	21.026	20.005
BLK-27	20.662	22.421	22.421	20.662
BLK-28	21.522	22.617	22.617	21.522
BLK-29	22.747	22.762	22.762	22.747
BLK-30	17.578	17.386	17.386	17.578
BLK-31	22.794	22.555	22.555	22.794
BLK-32	22.589	21.148	21.148	22.589
BLK-33	21.700	21.148	21.148	21.700
BLK-34	20.988	21.350	21.350	20.988
BLK-35	26.655	26.002	26.002	26.655
BLK-36	19.526	18.632	18.632	19.526
BLK-37	25.412	25.255	25.255	25.412
BLK-38	20.416	21.365	21.365	20.416
BLK-39	20.596	20.912	20.912	20.596
BLK-40	22.202	21.031	21.031	22.202
BLK-41	23.825	22.113	22.113	23.825
BLK-42	18.317	16.972	16.972	18.317
BLK-43	23.683	21.962	21.962	23.683
BLK-44	22.589	20.912	20.912	22.589

## Assembled Block Weight

Unit: Kn

	G-1	G-2	G-3	G-4
BLK-45	21.700	20.912	20.912	21.700
BLK-46	21.146	20.814	20.814	21.146
BLK-47	26.006	25.612	25.612	26.006
BLK-48	18.988	18.034	18.034	18.988
BLK-49	25.306	24.671	24.671	25.306
BLK-50	20.509	20.712	20.712	20.509
BLK-51	21.706	20.916	20.916	21.706
BLK-52	22.794	21.761	21.761	22.794
BLK-53	24.154	22.612	22.612	24.154
BLK-54	18.563	18.020	18.020	18.563
BLK-55	23.987	23.440	23.440	23.987
BLK-56	22.743	22.275	22.275	22.743
BLK-57	21.700	21.383	21.383	21.700
BLK-58	20.550	21.023	21.023	20.550
BLK-59	25.797	25.332	25.332	25.797
BLK-60	18.203	17.618	17.618	18.203
BLK-61	25.333	24.673	24.673	25.333
BLK-62	20.900	20.712	20.712	20.900
BLK-63	21.700	20.912	20.912	21.700
BLK-64	21.808	23.488	23.488	21.808
BLK-65	22.794	23.973	23.973	22.794
BLK-66	17.499	18.395	18.395	17.499
BLK-67	22.624	21.972	21.972	22.624
BLK-68	21.848	20.912	20.912	21.848
BLK-69	20.885	21.370	21.370	20.885
BLK-70	20.970	21.808	21.808	20.970
BLK-71	26.936	28.273	28.273	26.985
BLK-72	20.913	21.653	21.653	20.913
BLK-73	25.180	26.417	26.417	25.180
BLK-74	21.828	22.652	22.652	21.828
BLK-75	21.275	21.714	21.714	21.275
BLK-76	23.132	21.961	21.961	23.132
BLK-77	25.300	23.367	23.367	25.300
BLK-78	25.958	23.424	23.424	25.958
BLK-79	25.715	23.389	23.389	25.715
BLK-80	24.856	22.376	22.376	24.856
BLK-81	24.119	24.222	24.222	24.119
BLK-82	16.940	16.838	16.838	16.940

Bago River Bridge Construction Project  
Package 2

Quantity Calculation  
For Accessories Of Steel Box Girder  
( P13 - P20 )

Summary Table on Accessories of Steel Box Girder Bridge ( P13 - P20 )

Date: June 22,2017

Category	Grade	Thickness/ Size	Steel Box Girder ( P13 - P20 )						Total	Remarks
			Design Quantity Based On The Detail Design Drawing							
			Guard Rail And Coping	Widening Deck For Lighting Post	Inspection Walkway	Drainage Pit	Expansion Joint Support (P13)	Expansion Joint Support (P20)		
Tube (125x125x6)mm	STKR 400		165,761						<b>165,761</b>	kg
Plate	SM400A		23,215			340	4,411	3,655	31,621	kg
	SM490Y			7,787		10,541			18,328	kg
	SS400					1,566			1,566	kg
	Plate Total		23,215	7,787		12,447	4,411	3,655	<b>51,515</b>	kg
Expanded Metal	SM400A				1,016				<b>1,016</b>	kg
Flat Bar	SS400				3,566	1,771			<b>5,337</b>	kg
Angle	SM400A				9,002				9,002	kg
	SS400				7,527				7,527	kg
	Angle Total				16,529				<b>16,529</b>	kg
Bolt	S10T		3,033		245		113	88	<b>3,478</b>	kg
Stud Bolt & Nut			302	9			17	8	<b>336</b>	kg
Rebar	SD345		47,595				358	346	<b>48,299</b>	kg
<b>Total</b>			<b>239,905</b>	<b>7,796</b>	<b>21,356</b>	<b>14,218</b>	<b>4,899</b>	<b>4,097</b>	<b>292,272</b>	kg
Washers						16			<b>16</b>	Nos.
Chain 5 mm φ x 250	SUS304					1			<b>1</b>	Nos.
PVC Pipe	VP150A					3.24			<b>3.24</b>	m
Concrete	24MPa		694.34				9.71	9.65	<b>714</b>	m <sup>3</sup>
EPS			14.09						<b>14</b>	m <sup>3</sup>

Quantity Calculation  
For Guard Rail And Coping Of Steel Box Girder  
( P13 - P20 )

Quantity Calculation For Guard Rail of Steel Box Girder Bridge ( P13 to P20 ) (For 1 Unit - 10 m )

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight (kg/m)	Weight (Kg/pce)	Number	Weight (Kg)	Remarks
1	Post (125x125) mm	STKR 400		1169	6	21.7	25.37	5	127	
	Top Rail (125x125) mm	STKR 400		8100	6	21.7	175.77	1	176	
		STKR 400		1900	6	21.7	41.23	1	41	
	Bottom Rail (125x125) mm	STKR 400		8100	6	21.7	175.77	1	176	
		STKR 400		1900	6	21.7	41.23	1	41	
	Sub -Total								<b>561</b>	
2	Base Plate (250x250) mm	SM400	250	250	19		9.32	5	47	
3	Connection Plate@Top Rail (125x225) mm	SM400	125	225	19		4.19	4	17	
	Connection Plate@Bottom Rail (125x225) mm	SM400	125	225	19		4.19	4	17	
	Sub -Total								<b>80</b>	
4	22 Dia; Bolt for connection plate (M22*80) mm	F10T					0.585	16	9	
5	Stud Bolt & Nut (M16X45) mm						0.07	20	1	JIS B 3507
	Sub -Total								<b>11</b>	
	Total								<b>652</b>	

Quantity Calculation For Coping of Steel Box Girder Bridge ( P13 to P20 ) (For 1 Unit - 10 m )

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight (kg/m)	Weight (Kg/pce)	Number	Weight (Kg)	Remarks
7	Coping Bar (19 mm $\phi$ )	SD345		1200		2.25	2.70	34	92	
8	Coping Bar (13 mm $\phi$ )	SD345		10000		0.99	9.94	4	40	
	Sub -Total								<b>132</b>	
9	Coping Concrete	24MPa	600	10000	(342)(330)			1	2	m <sup>3</sup>

## Quantity Calculation For Guard Rail of Steel Box Girder Bridge ( P13 to P20 )

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight (kg/m)	Weight (Kg/pce)	Number	Weight (Kg)	Remarks
1	Side Post (125x125) mm	STKR 400		1169	6	21.7	25.37	662	16,793	
	Middle Post (125x125) mm	STKR 400		985	6	21.7	21.37	662	14,150	
	Top Rail (125x125) mm	STKR 400		8100	6	21.7	175.77	232	40,779	
		STKR 400		1900	6	21.7	41.23	220	9,071	
		STKR 400		6600	6	21.7	143.22	96	13,749	
		STKR 400		1400	6	21.7	30.38	96	2,916	
		STKR 400		5900	6	21.7	128.03	4	512	
		STKR 400		4400	6	21.7	95.48	4	382	
	Bottom Rail (125x125) mm	STKR 400		8100	6	21.7	175.77	232	40,779	
		STKR 400		1900	6	21.7	41.23	220	9,071	
		STKR 400		6600	6	21.7	143.22	96	13,749	
		STKR 400		1400	6	21.7	30.38	96	2,916	
		STKR 400		5900	6	21.7	128.03	4	512	
		STKR 400		4400	6	21.7	95.48	4	382	
	Sub -Total								<b>165,761</b>	
2	Base Plate (250x250) mm	SM400	250	250	19		9.32	1324	12,342	
3	Connection Plate@Top Rail (125x225) mm	SM400	125	225	19		4.19	1296	5,437	
	Connection Plate@Bottom Rail (125x225) mm	SM400	125	225	19		4.19	1296	5,437	
	Sub -Total								<b>23,215</b>	
4	22 Dia; Bolt for connection plate (M22x80) mm	S10T					0.585	5184	3,033	
5	Stud Bolt & Nut (M16X45) mm						0.057	5296	302	JIS B 3507
	Sub Total (Bolt & Nut)								<b>3,335</b>	
	Total								<b>192,311</b>	

## Quantity Calculation For Coping of Steel Box Girder Bridge ( P13 to P20 )

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight (Kg/m)	Weight (Kg/pce)	Number	Weight (Kg)	Remarks
7	Coping Bar (Side) (19 mm φ)	SD345		1200		2.25	2.70	5174	13,961	
	Coping Bar (Middle) 3700 @P13 to G.B(P13)-7 (19 mm φ)	SD345		1200		2.25	2.70	352	950	
	Coping Bar (Middle) 1500 @G.B(P13)-7 to P20 (19 mm φ)	SD345		1200		2.25	2.70	4824	13,017	
	Coping Bar (Middle) 1500 @G.B(P13)-7 to P20 (19 mm φ)	SD345		820		2.25	1.84	2412	4,447	
	Sub -Total								<b>32,375</b>	
8	Coping Bar (Side) (13 mm φ)	SD345		776000		0.99	771.42	8	6,171	
	Coping Bar (Middle) 3700 @P13 to G.B(P13)-7 (13 mm φ)	SD345		52500		0.99	52.19	8	418	
	Coping Bar (Middle) 1500 @G.B(P13)-7 to P20 (13 mm φ)	SD345		723500		0.99	719.23	12	8,631	
	Sub -Total								<b>15,220</b>	
	Total								<b>47,595</b>	

No	Item	Material	Width (mm)	Length (mm)	Depth (mm)	Effective Area (m <sup>2</sup> )	Volume (m <sup>3</sup> )	Number	Total Volume (m <sup>3</sup> )	Remarks
9	Coping Concrete (Side)	24MPa	600	776022.28	(342)(330)		156.45	2	312.89	
	Coping Concrete (Middle) 3700 @P13 to G.B(P13)-7	24MPa	600	52522.28	330		10.40	2	20.80	
	Covering Concrete	24MPa	(2500)(0)	44761	50	50.34	2.52	1	2.52	
	Coping Concrete (Middle) 1500 @G.B(P13)-7 to P20	24MPa	1500	723500	330		358.13	1	358.13	
	Total								<b>694.34</b>	
10	EPS								<b>14.09</b>	



Quantity Calculation  
For Widening Deck For Lighting Pole Of Steel Box Girder  
( P13 - P20 )

Material List For Lighting Post Bracket of Steel Box Girder Bridge ( P13 to P20 ) (For 1- Unit)

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Net (%)	Unit Weight (Kg/m <sup>3</sup> )	Weight (Kg/pce)	Number	Weight (Kg)	Remarks
1	Deck Plate (Thk;16 mm)	SM490Y	550	1,700	16	67.65%	7850	79.44	1	<b>79</b>	
2	Cover Plate (Thk;12 mm)	SM490Y	284	2,138	12		7850	57.20	1	57	
3	Additional Plate (Thk;12 mm)	SM490Y	287	563	12	99.48%	7850	15.14	2	30	
4	Additional Bracket (Thk;12 mm)	SM490Y	364	563	12	87.71%	7850	16.93	1	17	
5	Flange of Additional Bracket (Thk;12 mm)	SM490Y	200	574	12		7850	10.81	1	11	
	Sub - Total (Thk; 12mm)									<b>115</b>	
6	Stud Bolt & Nut (M16x35 mm)							0.057	4	<b>0.2</b>	
	Total									<b>195</b>	

Material List For Lighting Post Bracket of Steel Box Girder Bridge ( P13 to P20 )

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Net (%)	Unit Weight (Kg/m <sup>3</sup> )	Weight (Kg/pce)	Number	Weight (Kg)	Remarks
1	Deck Plate (Thk;16 mm)	SM490Y	550	1,700	16	67.65%	7850	79.44	40	<b>3,178</b>	
2	Cover Plate (Thk;12 mm)	SM490Y	284	2,138	12		7850	57.20	40	2,288	
3	Additional Plate (Thk;12 mm)	SM490Y	287	563	12	99.48%	7850	15.14	80	1,211	
4	Additional Bracket (Thk;12 mm)	SM490Y	364	563	12	87.71%	7850	16.93	40	677	
5	Flange of Additional Bracket (Thk;12 mm)	SM490Y	200	574	12		7850	10.81	40	433	
	Sub - Total (Thk; 12mm)									<b>4,609</b>	
6	Stud Bolt (M16x35 mm)							0.057	160	<b>9</b>	
	Total									<b>7,796</b>	

Quantity Calculation  
For Supporting Piece For Water Pipe Of Steel Box Girder  
( P13 - P20 )



Quantity Calculation  
For Inspection Way Of Steel Box Girder  
( P13 - P20 )

## Material List For Inspection Walkway of Steel Box Girder Bridge ( P13 to P20 ) (For 1 Unit )

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight (Kg/m)	Unit Weight (Kg/m <sup>2</sup> )	Weight (Kg/pce)	Number	Weight (Kg)	Remarks
1	Beam Angle (65x65) mm	SM400		2440	6	5.91		14.42	2	29	
		SM400		1940	6	5.91		11.47	2	23	
	Additional Angle (65x65) mm	SM400		65	6	5.91		0.38	1	0.4	
	Sub -Total									<b>52</b>	
2	Post Angle (65x65) mm	SS400		900	6	5.91		5.32	2	11	
	Handrail Angle (65x65) mm	SS400		2208	6	5.91		13.05	1	13	
		SS400		1708	6	5.91		10.09	1	10	
	Sub -Total									<b>34</b>	
3	Flat Bar (Diagonal)	SS400		1270	6	3.06		3.89	2	8	
		SS400		1104	6	3.06		3.38	2	7	
	Flat Bar (Horizontal)	SS400		545	6	3.06		1.67	2	3	
	Sub -Total									<b>18</b>	
4	Foot Way (Expanded Metal)	SM400	600	2400			2.28	3.28	1	3	
	Foot Way (Expanded Metal)	SM400	600	1900			2.28	2.60	1	3	
	Sub -Total									<b>6</b>	
5	Set Bolt (M12x35) mm							0.057	14	1	JIS B 3507
	Total									<b>110</b>	

## Material List For Inspection Walkway of Steel Box Girder Bridge ( P13 to P20 )

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight (Kg/m)	Unit Weight (Kg/m <sup>2</sup> )	Weight (Kg/pce)	Number	Weight (Kg)	Remarks
1	Beam Angle (65x65) mm	SM400		2440	6	5.91		14.42	464	6,691	
		SM400		1940	6	5.91		11.47	196	2,247	
	Additional Angle (65x65) mm	SM400		65	6	5.91		0.38	166	64	
	Sub -Total									<b>9,002</b>	
2	Post Angle (65x65) mm	SS400		900	6	5.91		5.32	660	3,511	
	Handrail Angle (65x65) mm	SS400		2208	6	5.91		13.05	232	3,027	
		SS400		1708	6	5.91		10.09	98	989	
	Sub -Total									<b>7,527</b>	
3	Flat Bar (Diagonal)	SS400		1270	6	3.06		3.89	464	1,803	
		SS400		1104	6	3.06		3.38	196	662	
	Flat Bar (Horizontal)	SS400		545	6	3.06		1.67	660	1,101	
	Sub -Total									<b>3,566</b>	
4	Foot Way (Expanded Metal)	SM400	600	2400			2.28	3.28	232	762	
	Foot Way (Expanded Metal)	SM400	600	1900			2.28	2.60	98	255	
	Sub -Total									<b>1,016</b>	
5	Set Bolt (M12x35) mm	S10T						0.057	4292	245	
	Total									<b>21,356</b>	

Quantity Calculation  
For Drainage Pit Of Steel Box Girder  
( P13 - P20 )

## Material List For Drainage Pit of Steel Box Girder Bridge ( P13 to P20 ) (For 1 Unit )

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight	Weight (Kg/pce)	Number	Weight (Kg)	Total Length (m)	Remarks
1	Cover Plate (Thk;19 mm)	SS400	250	362	19	7850	10.17	1	10		
2	Plate (Thk;19 mm)	SM400A	50	362	19	7850	2.70	2	5		
3	Plate (Thk;19 mm)	SM400A	50	288	19	7850	2.15	2	4		
	Sub -Total (Thk;19 mm)								<b>20</b>		
4	Plate (Thk;16 mm)	SM400A	308	420	16	7850	8.41	1	8		
5	Reinforcing Plate (Thk;16 mm)	SM490Y	588	700	16	7850	32.59	1	33		
6	Plate (Thk;16 mm)	SM400A	210	250	16	7850	4.66	1	5		
	Sub -Total (Thk;16 mm)								<b>46</b>		
7	Plate (Thk;10 mm)	SM400A	165	229	10	7850	2.84	2	6		
8	Plate (Thk;10 mm)	SM400A	157	322	10	7850	3.52	2	7		
9	Plate (Thk;10 mm)	SM400A	25	30	10	7850	0.06	6	0.4		
	Sub -Total (Thk;10 mm)								<b>13</b>		
10	Chain 5 mm $\phi$ x 250	SUS304	5 $\phi$	250				1			
11	Plate (Thk;8 mm)	SM400A	100	140	8	7850	0.88	1	1		
12	Plate (Thk;8 mm)	SM400A	100	106	8	7850	0.67	2	1		
	Sub -Total (Thk;8 mm)								<b>2</b>		
13	FB (Thk;6 mm)	SS400	100	491	6	7850	2.31	2	5		
14	FB (Thk;6 mm)	SS400	100	365	6	7850	1.72	4	7		
	Sub -Total (Thk;6 mm)								<b>12</b>		
	Total	Plate							<b>92</b>		
15	BN (M12x40(2-W))		M12	40				4			JIS B 3507
16	BN (M12x40(2-W))		M12	40				8			JIS B 3507
	Sub -Total							<b>12</b>			
17	BN (M12x45(2-W))		M12	45				4			JIS B 3507
	Total							<b>16</b>			
18	T1	VP150A	150A	718				1		0.72	
19	T2	VP150A	150A	1456				1		1.46	
20	T3	VP150A	150A	1063				1		1.06	
	Sub -Total	VP150A	150A							<b>3.24</b>	
21	Sleeve	150A						3			3 Nos



## Material List For Drainage Pit of Steel Box Girder Bridge ( P13 to P20 )

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight (Kg/m <sup>3</sup> )	Weight (Kg/pce)	Number	Weight (Kg)	Total Length (m)	Remarks
1	Cover Plate (Thk;19 mm)	SS400	250	362	19	7850	10.17	154	1,566		
2	Plate (Thk;19 mm)	SM400A	50	362	19	7850	2.70	308	831		
3	Plate (Thk;19 mm)	SM400A	50	288	19	7850	2.15	308	662		
	Sub-Total (Thk;19 mm)								<b>3,059</b>		
4	Plate (Thk;16 mm)	SM400A	308	420	16	7850	8.41	154	1,295		
5	Reinforcing Plate (Thk;16 mm)	SM490Y	588	700	16	7850	32.59	154	5,019		
6	Plate (Thk;16 mm)	SM400A	210	250	16	7850	4.66	154	718		
	Sub-Total (Thk;16 mm)								<b>7,032</b>		
7	Plate (Thk;10 mm)	SM400A	165	229	10	7850	2.84	308	876		
8	Plate (Thk;10 mm)	SM400A	157	322	10	7850	3.52	308	1,086		
9	Plate (Thk;10 mm)	SM400A	25	30	10	7850	0.06	924	54		
	Sub-Total (Thk;10 mm)								<b>2,016</b>		
10	Chain 5 mm φ x 250	SUS304						154			
11	Plate (Thk;8 mm)	SM400A	100	140	8	7850	0.88	154	135		
12	Plate (Thk;8 mm)	SM400A	100	106	8	7850	0.67	308	205		
	Sub-Total (Thk;8 mm)								<b>340</b>		
13	FB (Thk;6 mm)	SS400	100	491	6	7850	2.31	308	712		
14	FB (Thk;6 mm)	SS400	100	365	6	7850	1.72	616	1,059		
	Sub-Total (Thk;6 mm)								<b>1,771</b>		
	Total	Plate							<b>14,218</b>		
15	BN (M12x40(2-W))							616			JIS B 3507
16	BN (M12x40(2-W))							1232			JIS B 3507
	Sub-Total							<b>1848</b>			
17	BN (M12x45(2-W))							<b>616</b>			JIS B 3507
	Total	Washer						<b>2464</b>			
18	T1	VP150A		718				154		110.57	
19	T2	VP150A		1456				154		224.22	
20	T3	VP150A		1063				154		163.70	
	Sub Total	VP150A								<b>498.50</b>	
21	Sleeve	VP150A						462		<b>462</b>	Nos

Quantity Calculation  
For Expansion Joint Of Steel Box Girder  
( P13 )

## Material List For Expansion Joint Support of Steel Box Girder Bridge at (P13 )

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight	Weight (Kg/pce)	Number	Weight (Kg)	Remarks	
1	Horizontal Plate (Thk;16 mm)	SM400A	1000	22779.3	16	7850	(Kg/m <sup>3</sup> )	2861.08	1	2,861	*
2	Additional Plate (Thk;16 mm)	SM400A	200	22779.3	16	7850	(Kg/m <sup>3</sup> )	572.22	1	572	*
Sub -Total (Thk;16 mm)									<b>3,433</b>		
3	Longitudinal Stiffner (Thk;12 mm)	SM400A	140	934	12	7850	(Kg/m <sup>3</sup> )	12.32	63	776	*
4	Flange of Additional Plate (Thk;12 mm)	SM400A	150	4282.5	12	7850	(Kg/m <sup>3</sup> )	60.51	2	121	*
Sub -Total (Thk;12 mm)									<b>897</b>		
5	Base Plate for bolt (Thk;8 mm)	SM400A	170	940	8	7850	(Kg/m <sup>3</sup> )	10.04	8	<b>80</b>	*
6	25 Dia; Bolt (M25x80 mm)	S10T						0.785	144	<b>113</b>	
7	H1A (16 mm φ)	SD345		1090		1.58	(Kg/m)	1.72	62	107	lb/ft
8	H2A (16 mm φ)	SD345		400		1.58	(Kg/m)	0.63	124	78	Kg/m
9	H4A (16 mm φ)	SD345		420		1.58	(Kg/m)	0.66	8	5	
		SD345		1415		1.58	(Kg/m)	2.23	8	18	
		SD345		8090		1.58	(Kg/m)	12.76	8	102	
10	H5A (16 mm φ)	SD345		1245		1.58	(Kg/m)	1.96	4	8	
11	H6A (16 mm φ)	SD345		315		1.58	(Kg/m)	0.50	8	4	
12	H1C (16 mm φ)	SD345		2135		1.58	(Kg/m)	3.37	4	13	
13	H2C (16 mm φ)	SD345		315		1.58	(Kg/m)	0.50	20	10	
14	H1D (16 mm φ)	SD345		2275		1.58	(Kg/m)	3.59	2	7	
15	H2D (16 mm φ)	SD345		315		1.58	(Kg/m)	0.50	11	5	
Sub -Total (16 mm φ)									<b>358</b>		
16	H3A (Stud Bolt) (19 mm φ)			240				0.092	30	3	* JIS B 1198
17	H1B (Stud Bolt) (19 mm φ)			150				0.092	156	14	* JIS B 1198
Sub -Total (Stud Bolt) (19 mm φ)									<b>17</b>		
Total									<b>4,899</b>		
19	Concrete @ (F-F)	24MPa	600	570	334			0.11	2	0.23	m <sup>3</sup>
		24MPa	600	720	500			0.22	2	0.43	m <sup>3</sup>
	Concrete @ (G-G)	24MPa	8950	735	530			3.49	2	6.97	m <sup>3</sup>
	Concrete @ (H-H)	24MPa	1850	570	269			0.28	2	0.57	m <sup>3</sup>
		24MPa	1850	735	555			0.75	2	1.51	m <sup>3</sup>
Total (Concrete)									<b>9.71</b>	m <sup>3</sup>	

Note: The Designation '\*' in Remarks shows that those material shall be included the scope of Fabrication of Steel Box Girder.

Quantity Calculation  
For Expansion Joint Of Steel Box Girder  
( P20 )

## Material List For Expansion Joint Support of Steel Box Girder Bridge at (P20)

No	Item	Material	Width (mm)	Length (mm)	Thickness (mm)	Unit Weight		Weight (Kg/pce)	Number	Weight (Kg)	Remarks
1	Horizontal Plate (Thk;16 mm)	SM400A	800	22779.32	16	7850	(Kg/m <sup>3</sup> )	2288.87	1	2,289	*
2	Additional Plate (Thk;16 mm)	SM400A	200	22779.32	16	7850	(Kg/m <sup>3</sup> )	572.22	1	572	*
	Sub -Total (Thk;16 mm)									<b>2,861</b>	
3	Longitudinal Stiffner (Thk;12 mm)	SM400A	140	734	12	7850	(Kg/m <sup>3</sup> )	9.68	63	610	*
4	Flange of Additional Plate (Thk;12 mm)	SM400A	150	4282.5	12	7850	(Kg/m <sup>3</sup> )	60.51	2	121	*
	Sub -Total (Thk;12 mm)									<b>731</b>	
5	Base Plate for bolt (Thk;8 mm)	SM400A	170	740	8	7850	(Kg/m <sup>3</sup> )	7.90	8	<b>63</b>	*
6	25 Dia; Bolt (M25x80 mm)	S10T						0.785	112	<b>88</b>	
7	H1A (16 mm φ)	SD345		1160		1.58	(Kg/m)	1.83	60	110	
8	H2A (16 mm φ)	SD345		450		1.58	(Kg/m)	0.71	120	85	
9	H4A (16 mm φ)	SD345		420		1.58	(Kg/m)	0.66	8	5	
		SD345		875		1.58	(Kg/m)	1.38	8	11	
		SD345		8090		1.58	(Kg/m)	12.76	8	102	
10	H5A (16 mm φ)	SD345		1245		1.58	(Kg/m)	1.96	4	8	
11	H6A (16 mm φ)	SD345		315		1.58	(Kg/m)	0.50	8	4	
12	H1B (16 mm φ)	SD345		1552		1.58	(Kg/m)	2.45	4	10	
13	H2B (16 mm φ)	SD345		315		1.58	(Kg/m)	0.50	22	11	
	Sub -Total (16 mm φ)									<b>346</b>	
14	H3A (Stud Bolt) (19 mm φ)			220				0.092	85	<b>8</b>	* JIS B 1198
	Total									<b>4,097</b>	
16	Concrete @ (F-F)	24MPa	600	610	334			0.12	2	0.24	m <sup>3</sup>
		24MPa	600	760	500			0.23	2	0.46	m <sup>3</sup>
	Concrete @ (G-G)	24MPa	8950	775	580			4.02	2	8.05	m <sup>3</sup>
	Concrete @ (H-H)	24MPa	750	610	354			0.16	2	0.32	m <sup>3</sup>
		24MPa	750	775	500			0.29	2	0.58	m <sup>3</sup>
	Total (Concrete)									<b>9.65</b>	m <sup>3</sup>

Note: The Designation '\*' in Remarks shows that those material shall be included the scope of Fabrication of Steel Box Girder.

**STEEL BOX GIRDER BRIDGE  
(7-SPAN)**

**SUBSTRUCTURE**

**Quantity Calculation Report  
for Substructure of Steel Box Girder Bridge  
Package-2**

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1. Summary of Quantity

【 RC Pier Column & Beam Structure Quantity summarization table (1/1) 】

Work Item	Item	Specification	Division	Unit	Quantity								Total	Remark			
					P13 PIER	P14 PIER	P15 PIER	P16 PIER	P17 PIER	P18 PIER	P19 PIER	P20 PIER					
Concrete	Reinforced Concrete Structure	$\sigma_{ck}=30N/mm^2$		m3		970.7	958.1	945.5	930.2	917.4	904.6		5,626.5				
Formwork	Reinforced Concrete Structure	normal form	$H \leq 30m$	m2		369.9	365.0	359.9	356.2	350.7	345.1		2,146.8				
		Plywood curved panel		"		276.3	272.6	268.8	263.8	260.0	256.2		1,597.7				
Bearing	Bearing Mortar	Non-shrinkage Mortar		m3	0.46	1.434	1.401	1.304	1.340	1.411	1.390	0.642	9.382	scope of Superstructure construction			
	Form for void for Anchor Bolt	Cylindrical mold $\phi 250$		m		18.0	16.4	16.5	16.5	16.4	18.0		101.8				
	Box-out Formwork			m2		12.6	11.8	11.8	11.8	11.8	12.6		72.4				
Falsework	Scaffolding (Hand rail precede type)	Average height	$H \leq 30m$	m2		968	943	918	884	859	833		5,405				
			$H > 30m$	"		—	—	—	—	—	—		—				
	Total				"		968	943	918	884	859	833		5,405			
Supporting	Support (wedge type)	maximum height from the formation	Support capacity	Under 40kN/m <sup>2</sup>	m3		—	—	—	—	—	—	—	—			
				40kN/m <sup>2</sup> exceed	"		—	—	—	—	—	—	—	—	—		
				Under 80kN/m <sup>2</sup>	"		—	—	—	—	—	—	—	—	—	—	
				80kN/m <sup>2</sup> exceed	"		152	144	136	125	117	109		783			
Total				"		152	144	136	125	117	109		783				
Re-bar	Re-bar	SD345	D 13	kg		—	—	—	—	—	—	—	—	—			
			D16 ~ D25	"		65,532	64,666	63,810	62,542	61,682	60,837		379,069				
			D29 ~ D32	"		8,476	8,476	8,476	8,476	8,476	8,476		50,856				
			D 35	"		—	—	—	—	—	—	—	—	—	—		
			D 38	"		—	—	—	—	—	—	—	—	—	—		
			D 51	"		—	—	—	—	—	—	—	—	—	—		
			Total	"			74,008	73,142	72,286	71,018	70,158	69,313		429,925			
	SD390	D 38	"		66,550	65,771	64,992	63,954	63,175	62,399		386,841					
	Mechanical splice	SD345	D 35	Point		—	—	—	—	—	—	—	—	—	—		
			D 38	"		—	—	—	—	—	—	—	—	—	—		
			D 51	"		—	—	—	—	—	—	—	—	—	—		
Total			"		—	—	—	—	—	—	—	—	—	—			
SD390	D 38	"		580	580	580	580	580	580	580		3,480					



【 Steel pipe foundation Quantity summarization table ( 1/4 ) 】

Work Item	Component	Division		Unit	Quantity						Total	Remark			
					P14 PIER	P15 PIER	P16 PIER	P17 PIER	P18 PIER	P19 PIER					
Steel pipe foundation	Steel pipe well	Steel pipe length(φ1200mm)		m/Number	54.0	57.0	55.0	55.0	55.0	53.5	—				
		Pile number		Number	30	30	30	30	30	30	30	180	Outside Steel Pipe Well		
		Total		"	6	6	6	6	6	6	6	36	Diaphragm Steel Sheet Pipe Wall		
		Pile extension		m	1,944.0	2,052.0	1,980.0	1,980.0	1,980.0	1,980.0	1,926.0	11,862.0			
		Embedded depth		m	42.9	47.1	44.9	43.5	43.2	41.8	263.4	263.4	Soil Coefficient=1.00		
				"	—	—	—	—	—	—	—	—	Soil Coefficient=1.07		
		Number (Type A·D·E)	Steel pipe weight	φ1200	t=14mm	t	11.861	13.088	12.270	12.270	12.270	11.657	73.416	SKY400	
					t=14mm	"	3.681	3.681	3.681	3.681	3.681	3.681	22.086	SKY490	
					t=16mm	"	7.472	7.472	7.472	7.472	7.472	7.472	44.832	SKY400	
				φ165.2	t=11mm	"	4.372	4.606	4.464	4.464	4.464	4.330	26.700	STK400	
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	0.080	0.080	0.080	0.080	0.080	0.480	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	0.012	0.012	0.012	0.012	0.012	0.072	SS400	
					PL t=16mm	"	—	—	—	—	—	—	—	—	SS400
				Sling	PL t=22mm	"	0.036	0.036	0.036	0.036	0.036	0.036	0.216	SM490A	
				Interlocking Toe	PL t=12mm	Piece	2	2	2	2	2	2	12	SS400	
				In-situ Attached Interlocking		Point	2	2	2	2	2	2	12	STK400	
			Precut		"	2	2	2	2	2	2	12			
			Number (Type B·C·F)	Steel pipe weight	φ1200	t=14mm	t	11.861	13.088	12.270	12.270	12.270	11.657	73.416	SKY400
						t=14mm	"	3.681	3.681	3.681	3.681	3.681	3.681	22.086	SKY490
						t=16mm	"	7.472	7.472	7.472	7.472	7.472	7.472	44.832	SKY400
		φ165.2			t=11mm	"	4.372	4.606	4.464	4.464	4.464	4.330	26.700	STK400	
		Accessories weight		Reinforcement Band	PL t= 9mm	t	0.080	0.080	0.080	0.080	0.080	0.080	0.480	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	0.012	0.012	0.012	0.012	0.012	0.072	SS400	
					PL t=16mm	"	—	—	—	—	—	—	—	—	SS400
				Sling	PL t=22mm	"	0.036	0.036	0.036	0.036	0.036	0.036	0.216	SM490A	
				Interlocking Toe	PL t=12mm	Piece	2	2	2	2	2	2	12	SS400	
				In-situ Attached Interlocking		Point	2	2	2	2	2	2	12	STK400	
		Precut			"	2	2	2	2	2	2	12			
		Number (Type G)		Steel pipe weight	φ1200	t=14mm	t	11.861	13.088	12.270	12.270	12.270	11.657	73.416	SKY400
						t=14mm	"	3.681	3.681	3.681	3.681	3.681	3.681	22.086	SKY490
t=16mm	"					7.472	7.472	7.472	7.472	7.472	7.472	44.832	SKY400		
φ165.2	t=11mm		"		6.558	6.909	6.696	6.696	6.696	6.495	40.050	STK400			
Accessories weight	Reinforcement Band		PL t= 9mm	t	0.080	0.080	0.080	0.080	0.080	0.080	0.480	SS400			
	Members for Perimeter Field Welding (Backing Ring Stopper)		PL t=14mm	"	0.012	0.012	0.012	0.012	0.012	0.012	0.072	SS400			
			PL t=16mm	"	—	—	—	—	—	—	—	—	SS400		
	Sling		PL t=22mm	"	0.036	0.036	0.036	0.036	0.036	0.036	0.216	SM490A			
	Interlocking Toe		PL t=12mm	Piece	3	3	3	3	3	3	18	SS400			
	In-situ Attached Interlocking			Point	3	3	3	3	3	3	18	STK400			
Precut			"	3	3	3	3	3	3	18					

【 Steel pipe foundation Quantity summarization table ( 2/4 ) 】

Work Item	Component	Division	Unit	Quantity						Total	Remark			
				P14 PIER	P15 PIER	P16 PIER	P17 PIER	P18 PIER	P19 PIER					
Steel pipe foundation	Steel pipe well	Number (Type H)	Steel pipe weight	φ1200	t=14mm	t	11.861	13.088	12.270	12.270	12.270	11.657	73.416	SKY400
				φ1200	t=14mm	"	3.681	3.681	3.681	3.681	3.681	3.681	22.086	SKY490
				φ1200	t=16mm	"	7.472	7.472	7.472	7.472	7.472	7.472	44.832	SKY400
			φ165.2	t=11mm	"	6.558	6.909	6.696	6.696	6.696	6.495	40.050	STK400	
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	0.080	0.080	0.080	0.080	0.080	0.480	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	0.012	0.012	0.012	0.012	0.012	0.072	SS400
					PL t=16mm	"	—	—	—	—	—	—	—	—
				Sling	PL t=22mm	"	0.036	0.036	0.036	0.036	0.036	0.036	0.216	SM490A
				Interlocking Toe	PL t=12mm	Piece	3	3	3	3	3	3	18	SS400
				In-situ Attached Interlocking		Point	3	3	3	3	3	3	18	STK400
		Precut		"	3	3	3	3	3	3	18			
		Number (Type I)	Steel pipe weight	φ1200	t=14mm	t	22.086	23.313	22.495	22.495	22.495	21.882	134.766	SKY400
				φ1200	t=14mm	"	—	—	—	—	—	—	—	SKY490
				φ165.2	t=11mm	"	4.372	4.606	4.464	4.464	4.464	4.330	26.700	STK400
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	0.080	0.080	0.080	0.080	0.080	0.480	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	0.012	0.012	0.012	0.012	0.012	0.072	SS400
					PL t=16mm	"	—	—	—	—	—	—	—	—
				Sling	PL t=22mm	"	0.036	0.036	0.036	0.036	0.036	0.036	0.216	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	2	2	xx	2	2	10	SS400
				In-situ Attached Interlocking		Point	2	2	2	2	2	2	12	STK400
			Precut		"	2	2	2	2	2	2	12		
		Number (Type J)	Steel pipe weight	φ1200	t=14mm	t	22.086	23.313	22.495	22.495	22.495	21.882	134.766	SKY400
				φ1200	t=14mm	"	—	—	—	—	—	—	—	SKY490
				φ165.2	t=11mm	"	4.372	4.606	4.464	4.464	4.464	4.330	26.700	STK400
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	0.080	0.080	0.080	0.080	0.080	0.480	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	0.012	0.012	0.012	0.012	0.012	0.072	SS400
					PL t=16mm	"	—	—	—	—	—	—	—	—
				Sling	PL t=22mm	"	0.036	0.036	0.036	0.036	0.036	0.036	0.216	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	2	2	2	2	2	12	SS400
				In-situ Attached Interlocking		Point	2	2	2	2	2	2	12	STK400
			Precut		"	2	2	2	2	2	2	12		
		All number	Steel pipe weight	φ1200	t=14mm	t	488.346	532.518	503.070	503.070	503.070	481.002	3,011.076	SKY400
				φ1200	t=14mm	"	110.430	110.430	110.430	110.430	110.430	110.430	662.580	SKY490
				φ1200	t=16mm	"	224.160	224.160	224.160	224.160	224.160	224.160	1,344.960	SKY400
				φ165.2	t=11mm	"	161.764	170.422	165.168	165.168	165.168	160.210	987.900	STK400
			Accessories weight	Reinforcement Band	PL t= 9mm	t	2.880	2.880	2.880	2.880	2.880	2.880	17.280	SS400
Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm			"	0.432	0.432	0.432	0.432	0.432	0.432	2.592	SS400		
	PL t=16mm			"	—	—	—	—	—	—	—	—	SS400	
Sling	PL t=22mm			"	1.296	1.296	1.296	1.296	1.296	1.296	7.776	SM490A		
Interlocking Toe	PL t=12mm			Piece	74	74	74	74	74	74	444	SS400		
In-situ Attached Interlocking				Point	74	74	74	74	74	74	444	STK400		
Precut		"	74	74	74	74	74	74	444					

【 Steel pipe foundation Quantity summarization table ( 3/4 ) 】

Work Item	Component	Division		Unit	Quantity						Total	Remark	
					P14 PIER	P15 PIER	P16 PIER	P17 PIER	P18 PIER	P19 PIER			
Steel pipe foundation	Excavation inside	Inside piles		m3	332.0	372.2	366.4	317.8	307.8	311.5	2,007.7		
		Pile head		"	47.4	55.4	54.3	44.6	42.6	43.3	287.6		
	Concrete filling	Fill concrete		m3	282.3	282.3	282.3	282.3	282.3	282.3	1,693.8	Correction factor=0.04	
		Pile head		"	8.1	8.1	8.1	8.1	8.1	8.1	48.6		
	Cleaning inside joint pipe				m	1,534.9	1,682.4	1,613.1	1,560.1	1,549.2	1,494.1	9,433.8	
	Mortar filling inside joint pipe	$\sigma_{ck}=21\text{N/mm}^2$	Mortar length		m	1,468.9	1,572.5	1,509.6	1,509.6	1,509.6	1,450.4	9,020.6	Mortar=2.5m <sup>3</sup> /100m
			Mortar quantity		m3	38.5	41.3	39.6	39.6	39.6	38.1	236.7	Correction factor=0.05
	Sealing inside joint pipe	$\sigma_{ck}=0.2\text{N/mm}^2$	Sealing length		m	378.0	378.0	378.0	378.0	378.0	378.0	2,268.0	
			Sealing quantity		m3	10.8	10.8	10.8	10.8	10.8	10.8	64.8	
			Sealing bag		m	756.0	756.0	756.0	756.0	756.0	756.0	4,536.0	
	Excavation inside the well				m3	1,003.6	1,149.6	1,128.5	952.0	915.7	929.4	6,078.8	
	Backfill inside the well				m3	226.2	376.5	354.8	173.1	135.8	149.9	1,416.3	
	Surplus soil (waste soil)				m3	777.4	773.1	773.7	778.9	779.9	779.5	4,662.5	
	Footing concrete				m3	492.8	492.8	492.8	492.8	492.8	492.8	2,956.8	Correction factor=0.09
	Bottom slab concrete				m3	253.8	253.8	253.8	253.8	253.8	253.8	1,522.8	
	Spread sand				m3	58.2	58.2	58.2	58.2	58.2	58.2	349.2	
	Pile head	Shear Connector	PL-32 × 16 × 3597		kg	174	174	174	174	174	174	1,044	
		Stopper	PL-25 × 9 × 50		"	3	3	3	3	3	3	18	
	Pile head Re-bar	Re-bar	SD345	D 13	kg	307	307	307	307	307	307	1,842	
				D16 ~ D25	"	-	-	-	-	-	-	-	
				D29 ~ D32	"	918	918	918	918	918	918	5,508	
				Total	"	1,225	1,225	1,225	1,225	1,225	1,225	7,350	
	Footing Re-bar	Re-bar	SD345	D 13	kg	-	-	-	-	-	-	-	
D16 ~ D25				"	7,614	7,614	7,614	7,614	7,614	7,614	45,684		
D29 ~ D32				"	12,134	12,134	12,134	12,134	12,134	12,134	72,804		
D 35				"	-	-	-	-	-	-	-		
D 38				"	-	-	-	-	-	-	-		
D 51				"	33,024	31,707	31,707	31,707	31,707	33,024	192,876		
Total				"	52,772	51,455	51,455	51,455	51,455	52,772	311,364		
Mechanical splice	SD345	D 38	Point	-	-	-	-	-	-	-			
		D 51	"	87	89	89	89	89	87	530			
		Total	"	87	89	89	89	89	87	530			

【 Steel pipe foundation Quantity summarization table ( 4/4 ) 】

Work Item	Component	Division		Unit	Quantity						Total	Remark		
					P14 PIER	P15 PIER	P16 PIER	P17 PIER	P18 PIER	P19 PIER				
Steel pipe foundation	Falsework (guide frame, wale, strut)	Guide frame	H-350×350×12×19	t	14.0	14.0	14.0	14.0	14.0	14.0	84.0			
		Guide pile	H-300×300×10×15	"	48.4	48.4	48.4	48.4	48.4	48.4	290.4			
		Support Beam of Guide frame	[-200×90×8×13.5	"	1.0	1.0	1.0	1.0	1.0	1.0	6.0			
		wale	H-300×300×10×15	t	10.3	10.3	10.3	10.3	10.3	10.3	10.3	61.8		
			H-350×350×12×19	"	—	—	—	—	—	—	—	—		
			H-400×400×13×21	"	18.8	18.8	18.8	18.8	18.8	18.8	18.8	112.8		
		strut	H-300×300×10×15	t	3.1	3.1	3.1	3.1	3.1	3.1	3.1	18.6		
			H-350×350×12×19	"	2.2	2.2	2.2	2.2	2.2	2.2	2.2	13.2		
			H-400×400×13×21	"	5.6	5.6	5.6	5.6	5.6	5.6	5.6	33.6		
		Pillar	H-300×300×10×15	t	2.7	2.7	2.7	2.7	2.7	2.7	2.7	16.2		
			H-350×350×12×19	"	2.0	2.0	2.0	2.0	2.0	2.0	2.0	12.0		
			H-400×400×13×21	"	5.1	5.1	5.1	5.1	5.1	5.1	5.1	30.6		
		Main component Total				t	49.8	49.8	49.8	49.8	49.8	49.8	298.8	
		Sub component A				"	11.0	11.0	11.0	11.0	11.0	11.0	66.0	
	Sub component B				"	2.0	2.0	2.0	2.0	2.0	2.0	12.0		
	Total				"	62.8	62.8	62.8	62.8	62.8	62.8	376.8		
	Concrete filling to space between	Falsework	σ <sub>ck</sub> =18N/mm <sup>2</sup>		m <sup>3</sup>	18.3	18.3	18.3	18.3	18.3	18.3	109.8		
		Formwork			m <sup>2</sup>	50.3	50.3	50.3	50.3	50.3	50.3	301.8		
	Welding of the dowel	Welding of the dowel stage			Stage	870	840	840	840	840	840	5,070		
		Welding of the dowel Weight			kg	8,504	8,248	8,248	8,248	8,248	8,248	49,744		
Cut-off the pipe	φ1200			Number	36	36	36	36	36	36	216			

## 2. P14 PIER

### 2.1 Quantity summary table

【 P14 PIER Quantity summary table (1/5) 】

Work Item	Item		Specification	Division	Unit	Quantity	Remark
Concrete	Reinforced Concrete Structure		$\sigma_{ck}=30\text{N/mm}^2$		m <sup>3</sup>	970.7	
Formwork	Reinforced Concrete Structure		normal form	$H \leq 30\text{m}$	m <sup>2</sup>	369.9	
			Plywood curved panel		"	276.3	
Bearing	Bearing Mortar		Non-shrinkage Mortar		m <sup>3</sup>	1.434	Superstructure construction
	Form for void for Anchor Bolt		Cylindrical mold $\phi 250$		m	18.0	
	Box-out Formwork				m <sup>2</sup>	12.6	
Falsework	Scaffolding (Hand rail precede type)		Average height	$H \leq 30\text{m}$	m <sup>2</sup>	968	
				$H > 30\text{m}$	"	—	
	Total					"	968
Supporting	Support (wedge type)	maximum height from the formation	Support capacity	Under 40kN/m <sup>2</sup>	m <sup>3</sup>	—	
				40kN/m <sup>2</sup> exceed			
				Under 80kN/m <sup>2</sup>	"	—	
				80kN/m <sup>2</sup> exceed	"	152	
	Total					"	152
Re-bar	Re-bar		SD345	D 13	kg	—	
				D16 ~ D25	"	65,532	
				D29 ~ D32	"	8,476	
				D 35	"	—	
				D 38	"	—	
				D 51	"	—	
				Total		74,008	
			SD390	D 38	"	66,550	
	Mechanical splice		SD345	D 35	Point	—	
				D 38	"	—	
				D 51	"	—	
				Total	"	—	
						SD390	D 38

【 P14 PIER Quantity summary table (2/5) 】

Work Item	Component	Division		Unit	Quantity	Remark			
Steel pipe foundation	Steel pipe well	Steel pipe length( $\phi$ 1200mm)		m/Number	54.0				
		Pile number		Number	30	Outside Steel Pipe Well			
				"	6	Diaphragm Steel Sheet Pipe Wall			
		Total		"	36				
		Pile extension		m	1,944.0				
		Embedded depth			m	42.9	Soil Coefficient=1.00		
		Number (Type A·D·E)	Steel pipe weight	$\phi$ 1200	t=14mm	t	11.861	SKY400	
					t=14mm	"	3.681	SKY490	
					t=16mm	"	7.472	SKY400	
				$\phi$ 165.2	t=11mm	"	4.372	STK400	
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
			Precut		"	2			
			Number (Type B·C·F)	Steel pipe weight	$\phi$ 1200	t=14mm	t	11.861	SKY400
						t=14mm	"	3.681	SKY490
						t=16mm	"	7.472	SKY400
		$\phi$ 165.2			t=11mm	"	4.372	STK400	
		Accessories weight		Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
Precut		"		2					
Number (Type G)	Steel pipe weight	$\phi$ 1200		t=14mm	t	11.861	SKY400		
				t=14mm	"	3.681	SKY490		
				t=16mm	"	7.472	SKY400		
		$\phi$ 165.2	t=11mm	"	6.558	STK400			
	Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400			
		Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400			
			PL t=16mm	"	—	SS400			
			Sling	PL t=22mm	"	0.036	SM490A		
		Interlocking Toe	PL t=12mm	Piece	3	SS400			
		In-situ Attached Interlocking		Point	3	STK400			
	Precut		"	3					

【 P14 PIER Quantity summary table (3/5) 】

Work Item	Component	Division			Unit	Quantity	Remark		
Steel pipe foundation	Steel pipe well	1 number (Type H)	Steel pipe weight	φ 1200	t=14mm	t	11.861	SKY400	
					t=14mm	"	3.681	SKY490	
					t=16mm	"	7.472	SKY400	
					φ 165.2	t=11mm	"	6.558	STK400
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
				Sling	PL t=22mm	"	0.036	SM490A	
				Interlocking Toe	PL t=12mm	Piece	3	SS400	
				In-situ Attached Interlocking		Point	3	STK400	
			Precut		"	3			
			1 number (Type I)	Steel pipe weight	φ 1200	t=14mm	t	22.086	SKY400
		t=14mm				"	—	SKY490	
		φ 165.2				t=11mm	"	4.372	STK400
		Accessories weight		Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
				Sling	PL t=22mm	"	0.036	SM490A	
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
		Precut			"	2			
		1 number (Type J)		Steel pipe weight	φ 1200	t=14mm	t	22.086	SKY400
						t=14mm	"	—	SKY490
			φ 165.2			t=11mm	"	4.372	STK400
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
				Sling	PL t=22mm	"	0.036	SM490A	
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
			Precut		"	2			
			All number	Steel pipe weight	φ 1200	t=14mm	t	488.346	SKY400
t=14mm	"					110.430	SKY490		
t=16mm	"	224.160				SKY400			
φ 165.2	t=11mm	"				161.764	STK400		
Accessories weight	Reinforcement Band	PL t= 9mm		t	2.880	SS400			
	Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm		"	0.432	SS400			
		PL t=16mm		"	—	SS400			
	Sling	PL t=22mm		"	1.296	SM490A			
	Interlocking Toe	PL t=12mm		Piece	74	SS400			
	In-situ Attached Interlocking			Point	74	STK400			
Precut		"		74					

【 P14 PIER Quantity summary table (4/5) 】

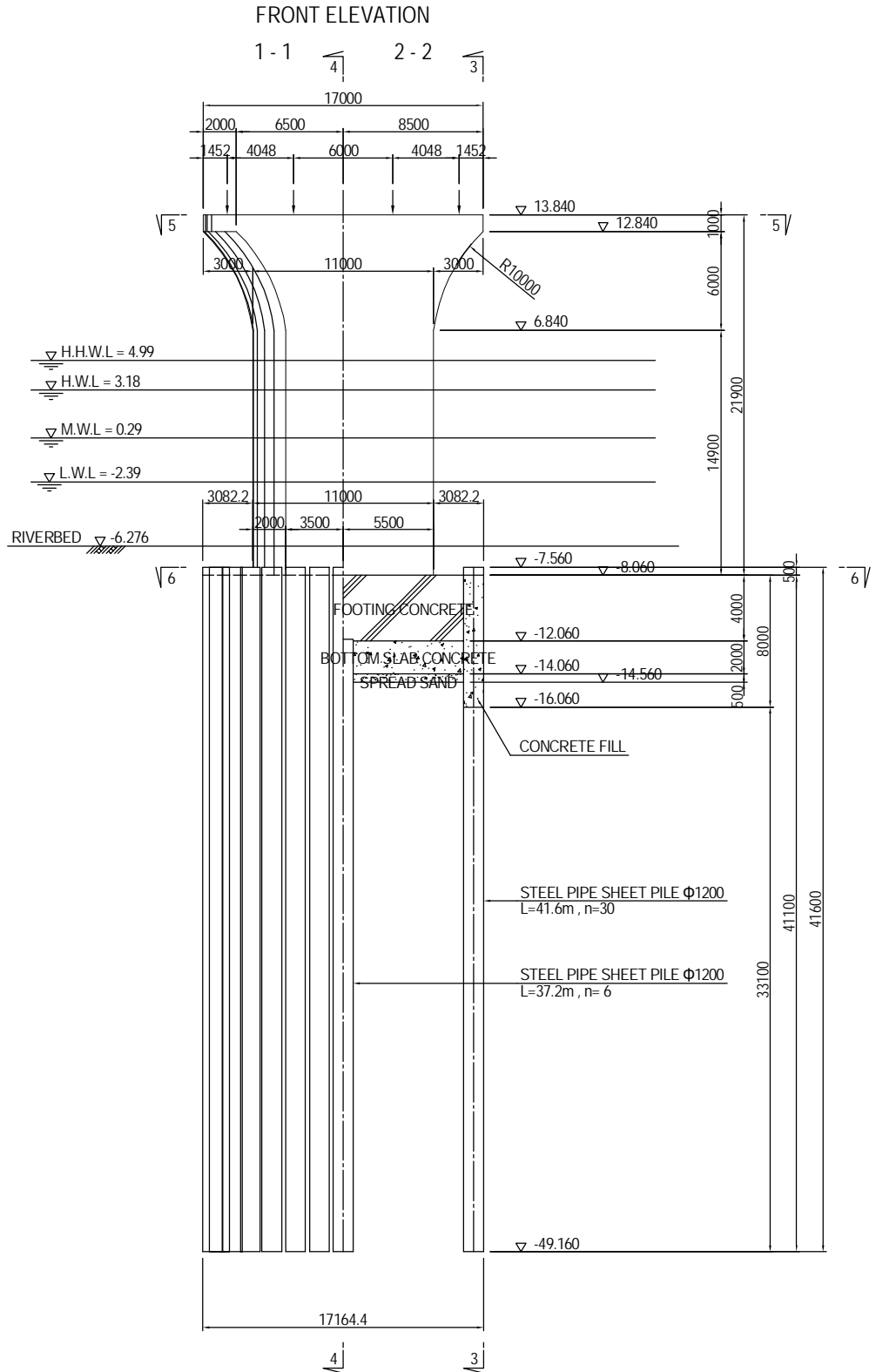
Work Item	Component	Division		Unit	Quantity	Remark	
S t e e l  P i p e  f o u n d a t i o n	Excavation inside			m3	332.0		
		Pile head		"	47.4		
	Concrete filling	Fill concrete	$\sigma_{ck}=21\text{N/mm}^2$		m3	282.3	Correction factor=0.04
		Pile head	$\sigma_{ck}=24\text{N/mm}^2$		"	8.1	
	Cleaning inside joint pipe			m	1,534.9		
	Mortar filling inside joint pipe	$\sigma_{ck}=21\text{N/mm}^2$	Mortar length		m	1,468.9	Mortar=2.5m <sup>3</sup> /100m
			Mortar quantity		m3	38.5	Correction factor=0.05
	Sealing inside joint pipe	$\sigma_{ck}=0.2\text{N/mm}^2$	Sealing length		m	378.0	Mortar=2.5m <sup>3</sup> /100m
			Sealing quantity		m3	10.8	Correction factor=0.14
			Sealing bag		m	756.0	Sealing 100m=200.0
	Excavation inside the well			m3	1,003.6		
	Backfill inside the well			m3	226.2		
	Surplus soil (waste soil)			m3	777.4		
	Footing concrete	$\sigma_{ck}=24\text{N/mm}^2$		m3	492.8		
	Bottom slab concrete	$\sigma_{ck}=21\text{N/mm}^2$		m3	253.8	Correction factor=0.09	
	Spread sand			m3	58.2		
	Pile head	Shear Connector	PL-32 × 16 × 3597		kg	174	
		Stopper	PL-25 × 9 × 50		"	3	
	Pile head Re-bar	Re-bar	SD345	D 13	kg	307	
				D16 ~ D25	"	-	
				D29 ~ D32	"	918.0	
				Total	"	1,225	
	Footing Re-bar	Re-bar	SD345	D 13	kg	—	
D16 ~ D25				"	7,614		
D29 ~ D32				"	12,134		
D 35				"	—		
D 38				"	—		
D 51				"	33,024		
Total				"	52,772		
Mechanical splice		SD345	D 38	Point	—		
			D 51	"	87		
			Total	"	87		



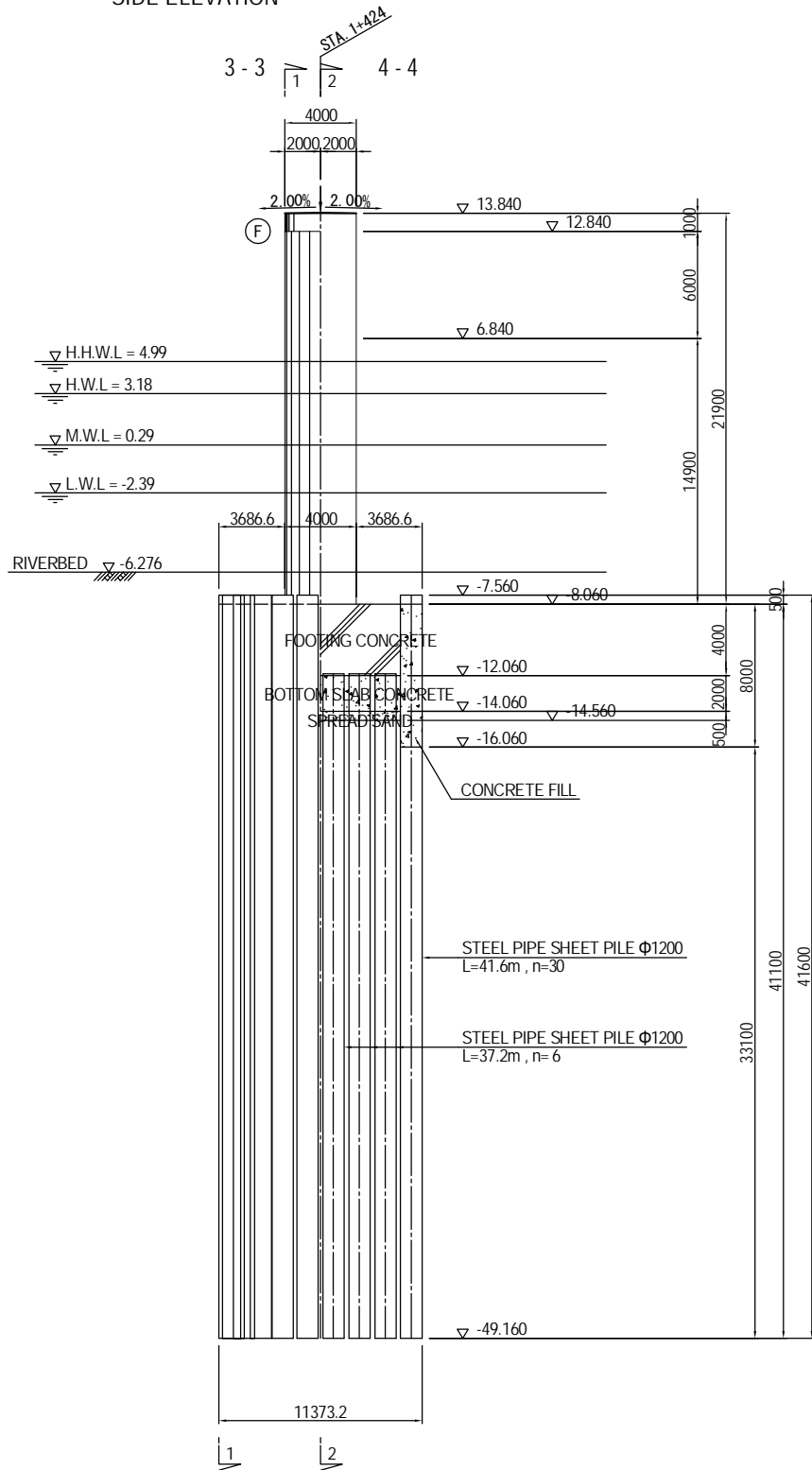
【 P14 PIER Quantity summary table (5/5) 】

Work Item	Component	Division		Unit	Quantity	Remark		
S t e e l  p i p e  f o u n d a t i o n	Falsework (guide frame, wale, strut)	Guide frame	H-350 × 350 × 12 × 19	t	14.0			
		Guide pile	H-300 × 300 × 10 × 15	"	48.4			
		Support Beam of Guide frame	[-200 × 90 × 8 × 13.5	"	1.0			
		wale	H-300 × 300 × 10 × 15	t	10.3			
			H-350 × 350 × 12 × 19	"	—			
			H-400 × 400 × 13 × 21	"	18.8			
		strut	H-300 × 300 × 10 × 15	t	3.1			
			H-350 × 350 × 12 × 19	"	2.2			
			H-400 × 400 × 13 × 21	"	5.6			
		Pillar	H-300 × 300 × 10 × 15	t	2.7			
			H-350 × 350 × 12 × 19	"	2.0			
			H-400 × 400 × 13 × 21	"	5.1			
		Main component Total				t	49.8	SS400
		Sub component A				"	11.0	22%
	Sub component B				"	2.0	4%	
	Total				"	62.8		
	Concrete filling to space between	Falsework	$\sigma_{ck}=18N/mm^2$		m3	18.3	Correction factor=0.04	
		Formwork			m2	50.3		
	Welding of the dowel	Welding of the dowel stage			Stage	870		
		Welding of the dowel Weight			kg	8,504		
	Cut-off the pipe	$\phi 1200$			Number	36		

2.2 General arrangement

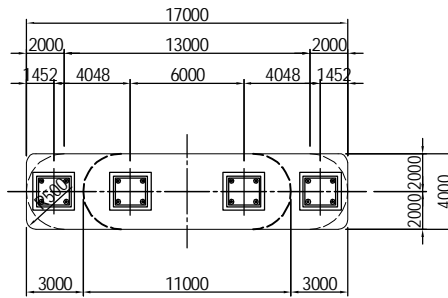


SIDE ELEVATION



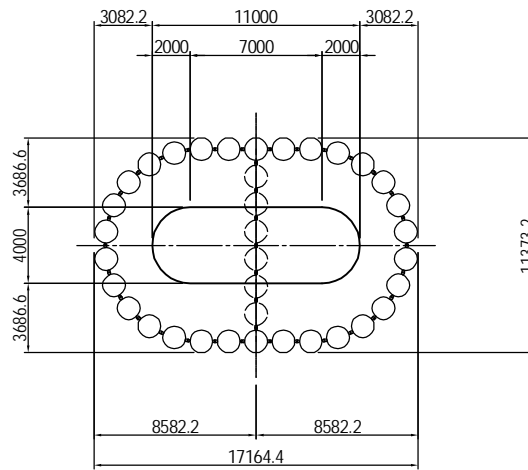
PLAN

5 - 5



PLAN

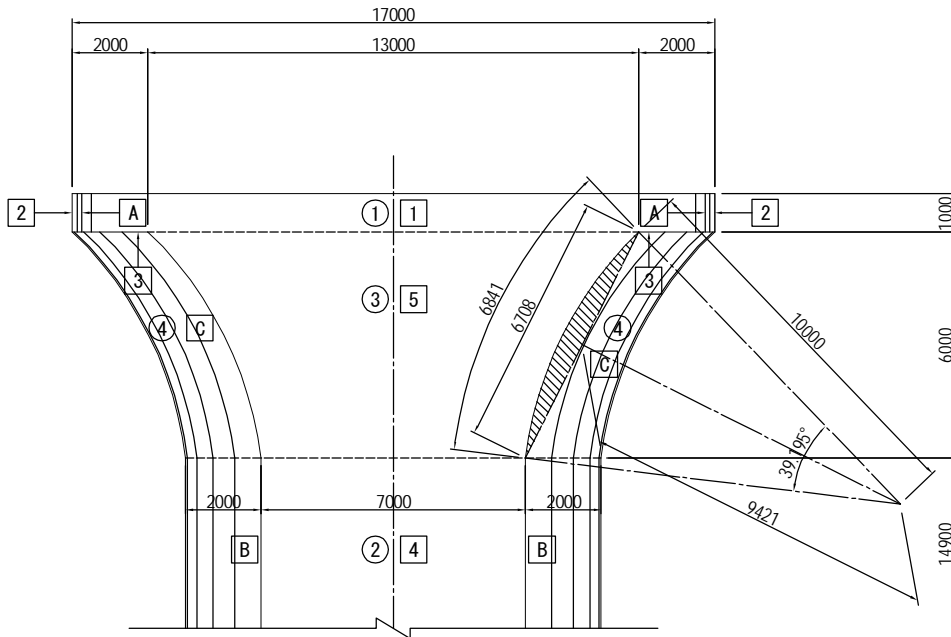
6 - 6



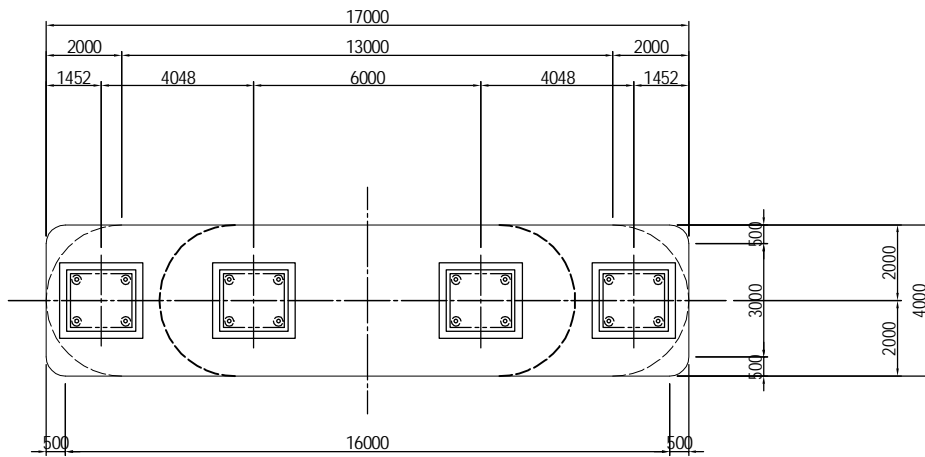
USE MATERIALS

	CONCRETE	BAR
BEAM	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD345
COLUMN	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD390 • SD345
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	SD345

SIDE ELEVATION



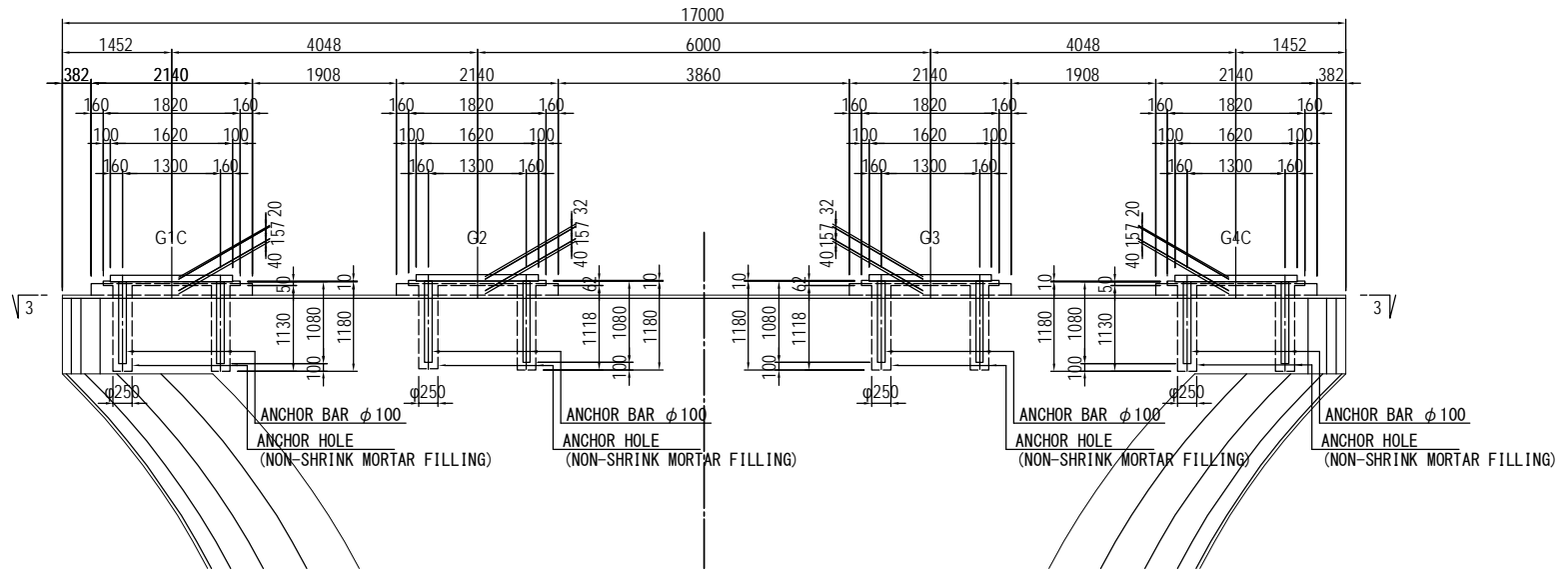
PLAN

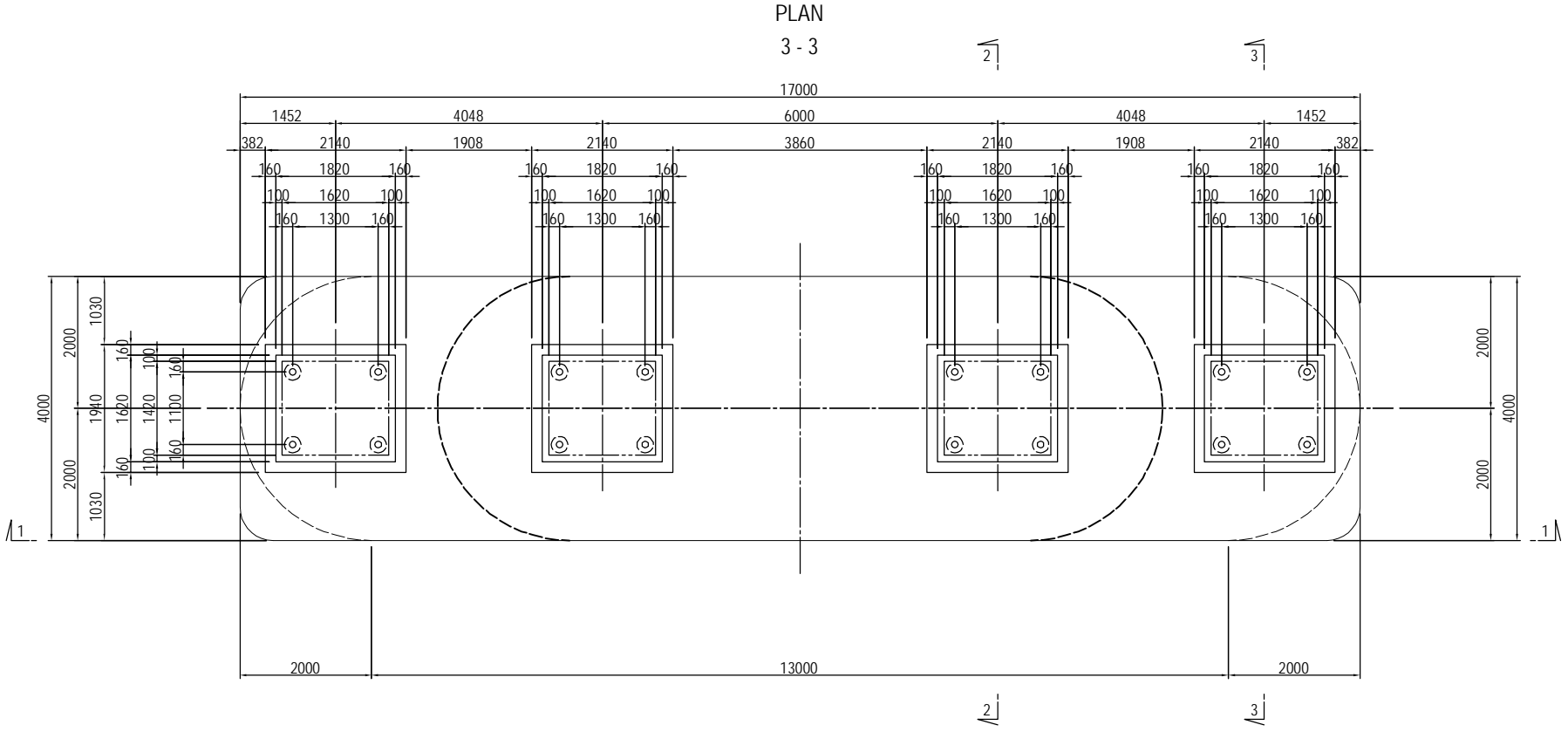


DETAIL OF BEARING AND ANCHOR

FRONT ELEVATION

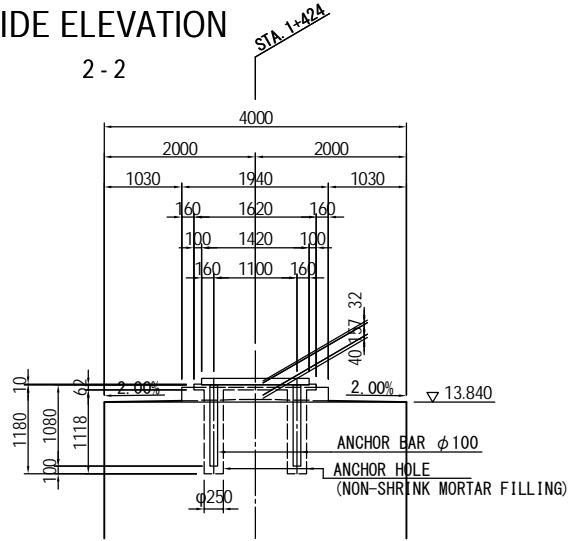
1 - 1





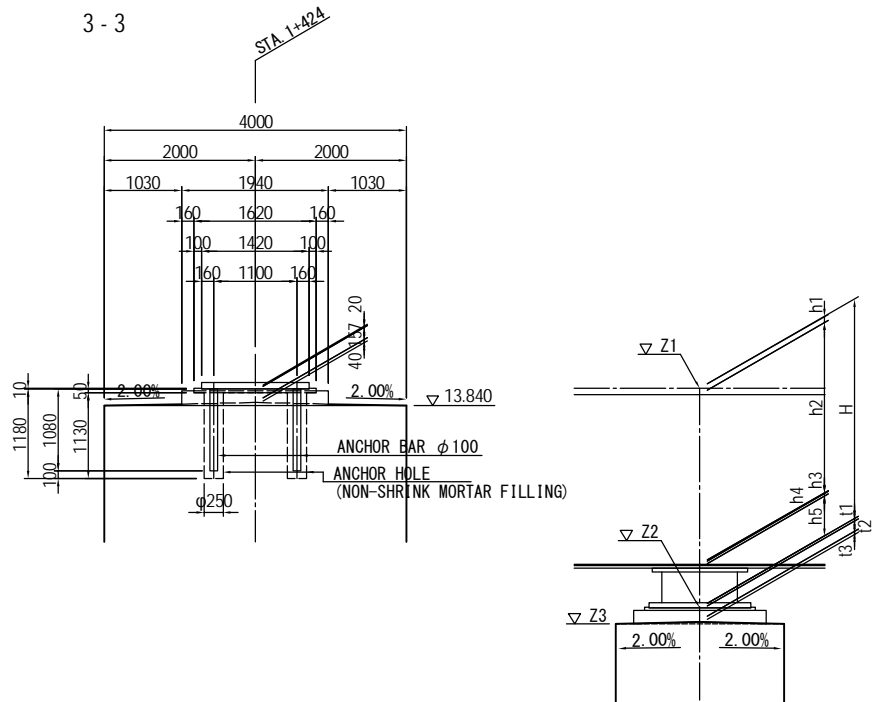
SIDE ELEVATION

2 - 2



SIDE ELEVATION

3 - 3



		P14 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	17.297	17.378	17.378	17.297
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.052	0.040	0.040	0.052
SOLE PLATE	h4	0.040	0.040	0.040	0.040
BEARING	h5	0.359	0.359	0.359	0.359
SUBTOTAL	H	3.240	3.309	3.309	3.240
ELEVATION OF BEARING BOTTOM	Z2	14.057	14.069	14.069	14.057
MORTAR	t1	0.020	0.032	0.032	0.020
BEARING BASE	t2	0.157	0.157	0.157	0.157
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	13.840	13.840	13.840	13.840



## 2.3 Concrete

(1) Pier ( $\sigma_{ck} = 30\text{N/mm}^2$ )

### 1) Top Beam

$$\textcircled{1} \quad 17.000 * 4.000 * 1.000 = 68.000 \text{ m}^3$$

### Grade Concrete

$$1/2 * 2.000 * 0.040 * 17.000 * 2 = 1.360 \text{ ''}$$

### Base Concrete

$$\text{G1} \sim \text{G4} \quad 2.140 * 1.940 * 0.157 * 4 = 2.607 \text{ ''}$$

### Beam corner cut off

$$-(1.000 * 1.000 - \pi/4 * 1.000 * 1.000) * 1.000 = -0.215 \text{ ''}$$

---


$$\text{Top Beam total} = 71.752 \text{ m}^3$$

### 2) Beam and Pier Column

#### 【 Cross section 】

$$\text{A} = \pi/4 * 4.000 * 4.000 + 7.000 * 4.000 = 40.566 \text{ m}^2$$

$$\textcircled{2} \quad 40.566 * 14.900 = 604.433 \text{ m}^3$$

$$\textcircled{3} \quad 1/2 * (7.000 + 13.000) * 6.000 * 4.000 = 240.000 \text{ ''}$$

$$\textcircled{4} \quad \pi/4 * 4.000 * 4.000 * 6.000 = 75.398 \text{ ''}$$

### Subtraction of circular arc parts

$$-(\pi * 10.000 * 10.000 * 39.195 / 360 - 1/2 * 6.708 * 9.421) * 4.000 * 2 = -20.848 \text{ ''}$$

---


$$\text{Beam and Pier Column total} = 898.983 \text{ m}^3$$

---


$$\text{Pier total} = 970.735 \text{ m}^3$$

## 2.4 Formwork

### (1) Pier

【 Formwork Division 】 normal form

【 Structure Division 】 Reinforced Concrete Structure

【 height Division 】 [Average height ]  $H \leq 30m$

#### 1) Top Beam

$$\begin{aligned}
 & \boxed{1} \quad 16.000 * 1.000 * 2 = 32.000 \text{ m}^2 \\
 & \boxed{2} \quad 3.000 * 1.000 * 2 = 6.000 \text{ ''} \\
 & \boxed{3} \quad ( 4.000 * 4.000 - \pi/4 * 4.000 * 4.000 ) \\
 & \quad - ( 1.000 * 1.000 - \pi/4 * 1.000 * 1.000 ) = 3.219 \text{ ''}
 \end{aligned}$$

#### Grade Concrete

$$1/2 * 2.000 * 0.040 * 2 * 2 = 0.160 \text{ ''}$$

#### Base Concrete

$$G1 \sim G4 ( 2.140 + 1.940 ) * 2 * 0.157 * 4 = 5.124 \text{ ''}$$

---


$$\text{Top Beam total} = 46.503 \text{ m}^2$$

#### 2) Beam and Pier Column

$$\begin{aligned}
 & \boxed{4} \quad 7.000 * 14.900 * 2 = 208.600 \text{ m}^2 \\
 & \boxed{5} \quad 1/2 * ( 7.000 + 13.000 ) * 6.000 * 2 = 120.000 \text{ ''}
 \end{aligned}$$

#### Subtraction of circular arc parts

$$\begin{aligned}
 & - ( \pi * 10.000 * 10.000 * 39.195 / 360 \\
 & \quad - 1/2 * 6.708 * 9.421 ) * 2 = -5.212 \text{ ''}
 \end{aligned}$$

---


$$\text{Beam and Pier Column total} = 323.388 \text{ m}^2$$

---


$$\text{normal form total} = 369.891 \text{ m}^2$$

【 Structure Division 】 Reinforced Concrete Structure(Plywood curved panel)

1) Top Beam

<span style="border: 1px solid black; padding: 2px;">A</span>	$\pi$	*	1.000	*	1.000		=	3.142 m2
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2) Beam and Pier Column

<span style="border: 1px solid black; padding: 2px;">B</span>	$\pi$	*	4.000	*	14.900		=	187.239 m2
---	-------	---	-------	---	--------	--	---	------------

<span style="border: 1px solid black; padding: 2px;">C</span>	$\pi$	*	4.000	*	6.841		=	85.967 "
---	-------	---	-------	---	-------	--	---	----------

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	Beam and Pier Column total	=	273.206 m2
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	Plywood curved panel total	=	276.348 m2
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2.5 Re-bar

Work Item	Item	Specification	Division	Unit	Quantity	Remark	
Re-bar	Re-bar	SD345	D 13		kg	—	
			D16~D25	D 16	"	2,385	
				D 19	"	—	
				D 22	"	63,147	
				D 25	"	—	
				Total	"	65,532	
				D29~D32	D 29	"	—
			D 32		"	8,476	
			Total		"	8,476	
			D 35		"	—	
			D 38		"	—	
			D 51		"	—	
			Total		"	74,008	
					SD390	D 38	"
	Mechanical splice	SD345	D 35		Point	—	
			D 38		"	—	
			D 51		"	—	
			Total		"	—	
				SD390	D 38	"	580

## 2.6 Bearing

### (1) Non-shrinkage Mortar

* G1&G4	t 1 = 30 mm												
Bearing	1.820	*	1.620	*	0.030			=	0.0885 m3				
Box-out	1.820	*	1.620	*	0.030			=	0.0885 "				
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.130	*	4	=	0.2219 "
Base pl	-	1.620	*	1.420	*	0.010						=	-0.0230 "
Anchor	-1/4	*	$\pi$	*	0.100	*	0.100	*	1.080	*	4	=	-0.0339 "
									v1			=	0.3420 m3
* G2&G3	t 2 = 42 mm												
Bearing	1.820	*	1.620	*	0.042							=	0.1238 m3
Box-out	1.820	*	1.620	*	0.030							=	0.0885 "
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.118	*	4	=	0.2195 "
Base pl	-	1.620	*	1.420	*	0.010						=	-0.0230 "
Anchor	-1/4	*	$\pi$	*	0.100	*	0.100	*	1.080	*	4	=	-0.0339 "
									v2			=	0.3749 m3
V	=	0.3420	*	2	+	0.3749	*	2				=	1.4338 m3

### (2) Form for void for Anchor Bolt

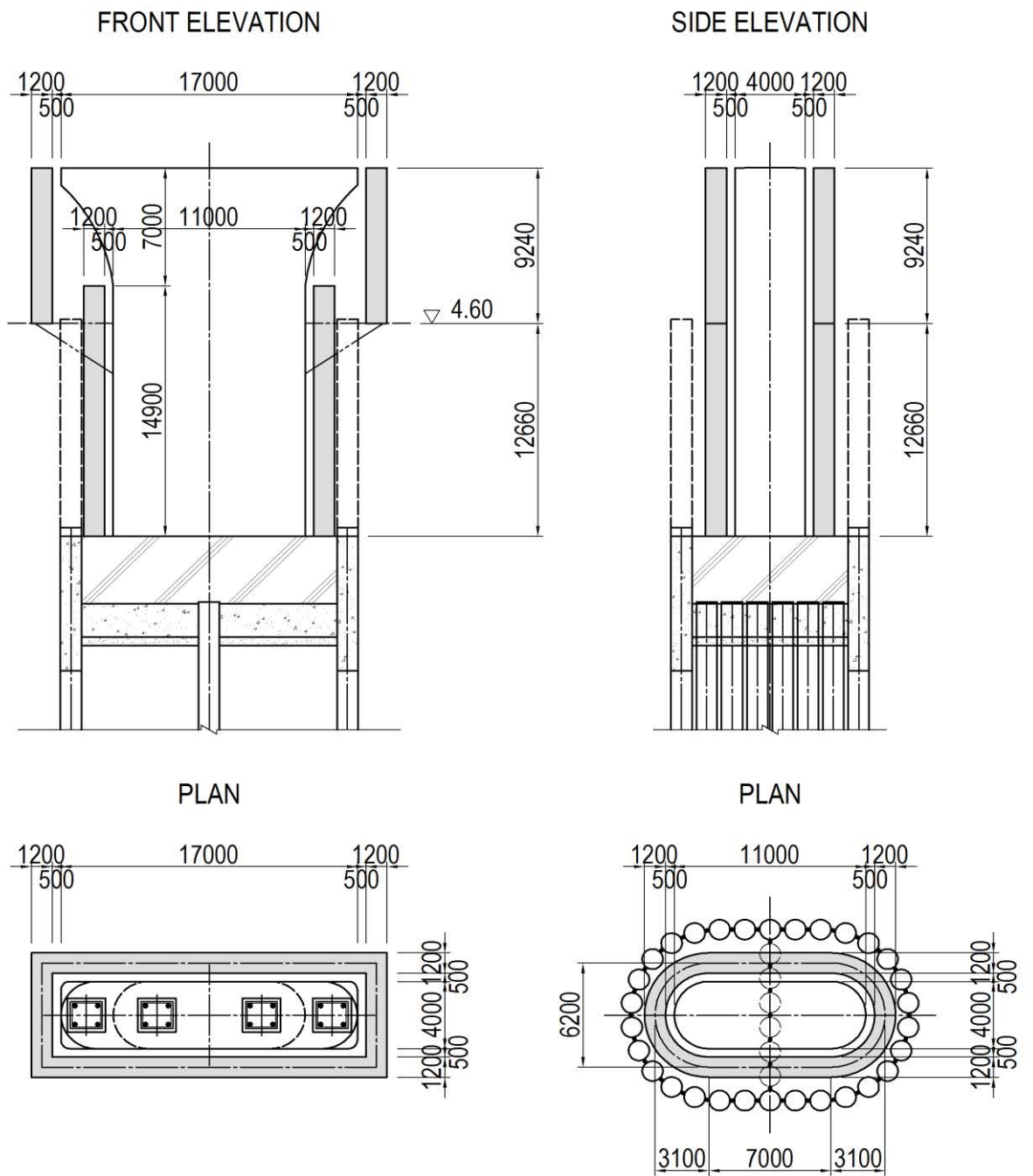
【 Cylindrical mold 】	$\phi$ = 250 mm										
L1	=	1.130	*	4	*	2			=	9.040 m	
L2	=	1.118	*	4	*	2			=	8.944 "	
									$\Sigma L$	=	17.984 m

### (3) Form for box-out

A	=	{ 2 * ( 1.820 + 1.620 ) * 0.030 + 1.820							
		* 1.620 }	*	4				=	12.619 m2

## 2.7 Falsework

(1) Scaffolding (Hand rail precede type)



【height Division】 [Average height] ----  $H \leq 30m$

1) Beam

(Falsework height)  $\underline{H1 = 9.240 \text{ m}}$

$$W = \{ 2 * ( 17.000 + 4.000 ) + 8.800 \} * 9.240 = \underline{469.39 \text{ m}^2}$$

2) Pierstud

(Falsework height)  $\underline{H2 = 14.900 \text{ m}}$

$$W1 = 7.000 * 14.900 * 2 = 208.60 \text{ m}^2$$

$$W2 = \pi * 6.200 * 14.900 = 290.22 \text{ ''}$$

---

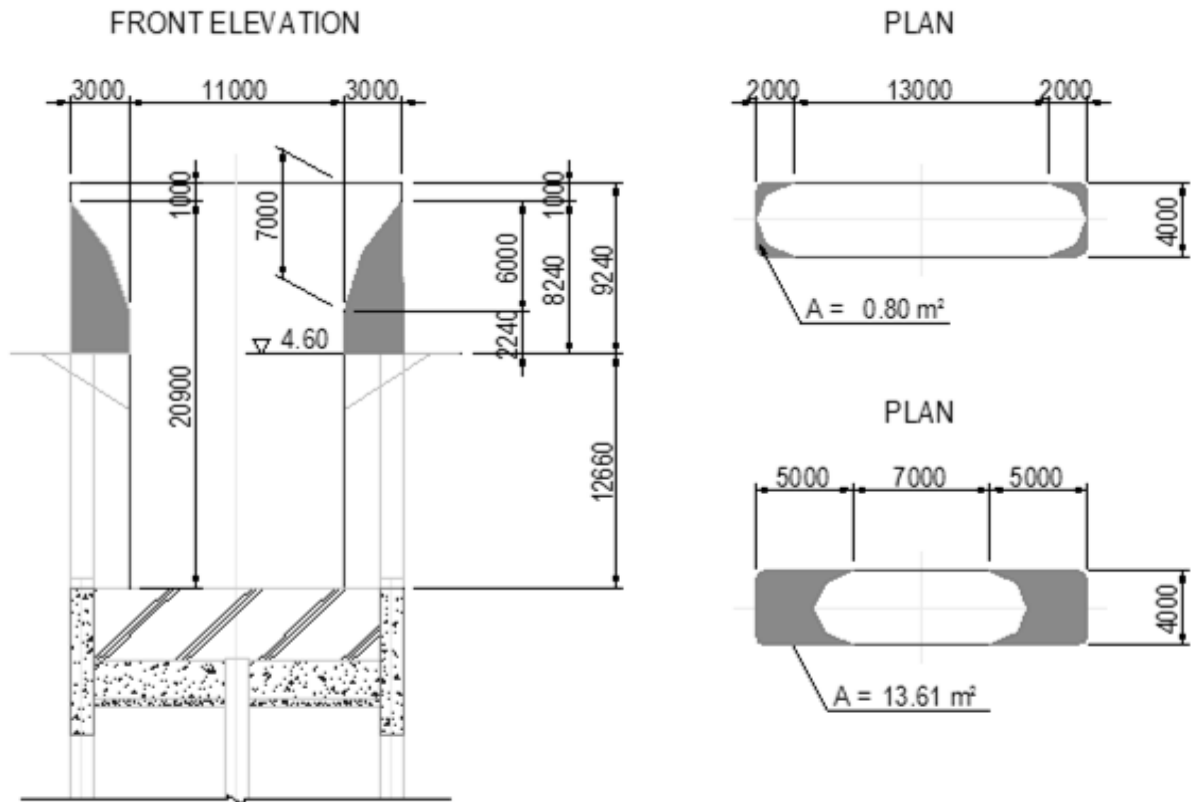

$$\text{Pierstud total} = 498.82 \text{ m}^2$$

---


$$\text{Scaffolding (Hand rail precede type) total} = 968.21 \text{ m}^2$$

## 2.8 Supporting

### (1) Support (wedge type)



【height Division】 [Average height] -----  $H \leq 30\text{m}$

[maximum height from the formation] -----  $H \leq 30\text{m}$

【Average height】

$$H = 1/2 * ( 2.240 + 8.240 ) = \underline{\underline{5.240 \text{ m}}}$$

【Support capacity】

$$\text{Average concrete } t = 1/2 * ( 100.0 + 700.0 ) = \underline{\underline{400.0 \text{ cm}}}$$

$$= 250\text{cm} < t$$

$$\text{Support capacity } \omega = 80\text{kN/m}^2 < \omega$$

【Supporting area】

$$A1 = 13.61 * 2 = 27.22 \text{ m}^2$$

$$A2 = 0.80 * 4 = 3.20 \text{ m}^2$$



【Supporting vorum】

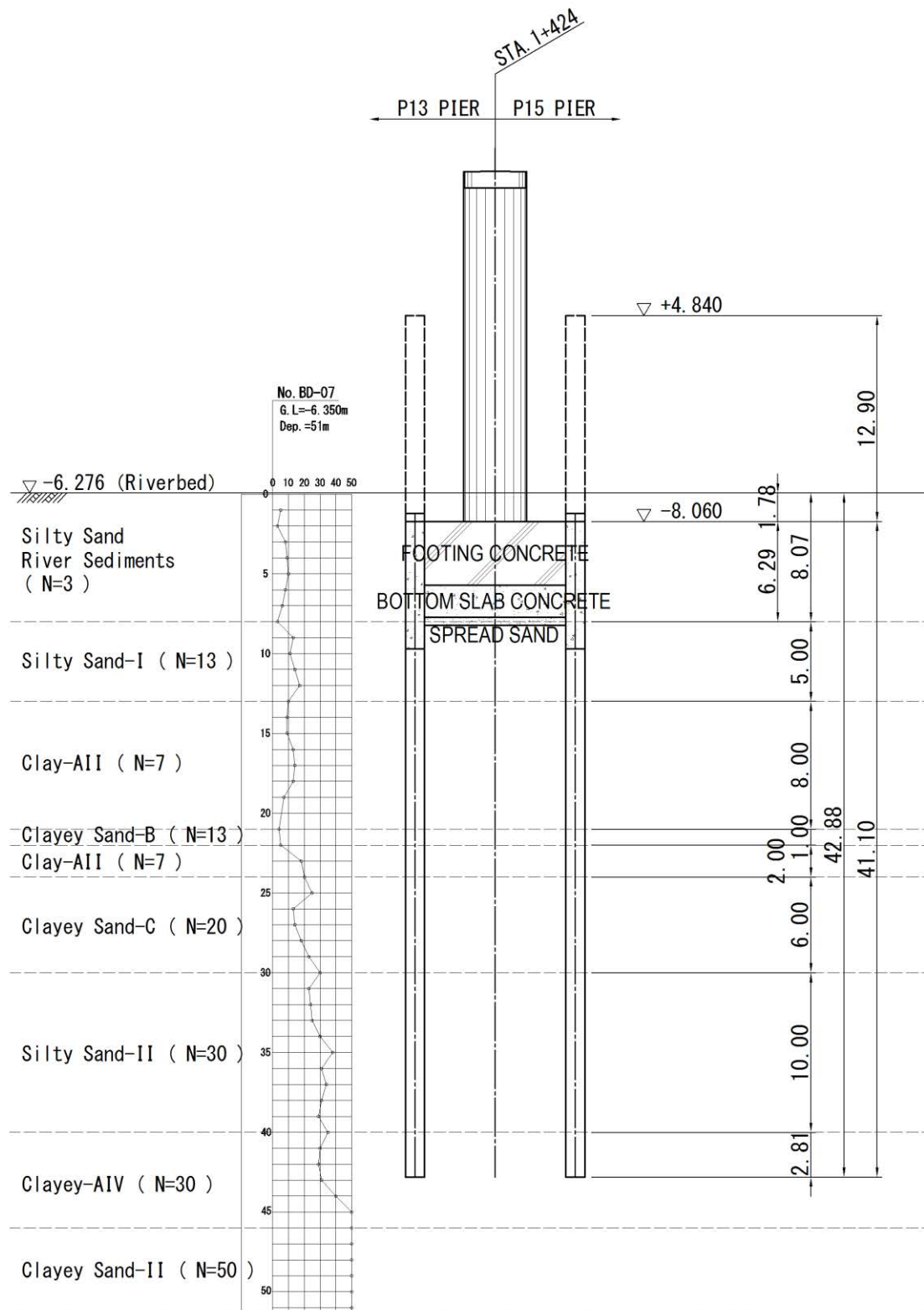
$$V1 = 27.22 * 2.240 = 60.97 \text{ m}^3$$

$$V2 = 1/2 * ( 27.22 + 3.20 ) * 6.000 = 91.26 \text{ ''}$$

---

$$\text{Supporting Total} = 152.23 \text{ m}^3$$

## 2.9 Foundation



1. ruler

Guide frame : 0.350 m (H-350 × 350 × 12 × 19)  
Weight : 135.0 kg/m

well Outside : 11.373 m (Bridge axial direction)  
well Outside : 17.164 m (Right angle direction)  
Steel pipe well : 1.200 m  
Mounting space : 0.030 m

Guide frame (Outside)

$$\begin{aligned} L1 &= ( 11.373 + 0.030 + 0.350 ) \times \pi &= & 36.923 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 &= & 11.582 \text{ m} \\ \text{Total} & &= & 48.505 \text{ m} \\ W1 &= 48.505 \times 135.0 &= & 6.548 \text{ t} \end{aligned}$$

Guide frame (Inside)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 ) \times \pi &= & 26.996 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 &= & 11.582 \text{ m} \\ \text{Total} & &= & 38.578 \text{ m} \\ W2 &= 38.578 \times 135.0 &= & 5.208 \text{ t} \end{aligned}$$

Guide frame (Diaphragm Wall)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 \times 2 ) \times 2 &= & 16.486 \text{ m} \\ W3 &= 16.486 \times 135.0 &= & 2.226 \text{ t} \end{aligned}$$

Total

$$W = W1 + W2 + W3 = 6.548 + 5.208 + 2.226 = 13.982 \text{ t}$$

Guide frame : 0.300 m (H-300 × 300 × 10 × 15)  
Weight : 93.0 kg/m  
Guide pile : 20.000 m

Guide pile

$$\begin{aligned} n1 &= 26 \text{ number} \\ W1 &= 26 \times 20.000 \times 93.0 = 48.360 \text{ t} \end{aligned}$$

2. Excavation inside

Steel pipe well : 1.200 m  
Steel pipe well area : 1.131 m<sup>2</sup>  
Steel pipe well number : 30 number (Circumference)  
Ground level : -6.276 m  
Footing Top : -8.060 m  
Footing : 4.000 m

$$\begin{aligned} \text{Excavation inside} &= 1.131 \times ( -6.276 - -8.060 + 4.000 \times 2 ) \times 30 \\ &= 332.0 \text{ m}^3 \end{aligned}$$

### 3. Concrete filling

Steel pipe well : 1.200 m  
 Steel pipe well area : 1.131 m<sup>2</sup>  
 Filled concrete : 8.000 m  
 Steel pipe well number : 30 number (Circumference)

Concrete filling = 1.131 × 8.000 × 30 = 271.4 m<sup>3</sup>

Consumption = 271.4 × ( 1 + K ) = 282.3 m<sup>3</sup>  
 (K: Correction factor = 0.04 )

### 4. Cleaning inside joint pipe

Ground level : -6.276 m  
 Steel pipe well Top : 4.840 m  
 Steel pipe well : 54.000 m  
 Steel pipe well Bottom : -49.160 m  
 Nothing inside joint pip : 1.400 m (Steel pipe well Bottom)  
 Inside joint pipe : 37 number (Circumference + Diaphragm Wall)

Cleaning inside joint pipe = ( -6.276 - -49.160 - 1.400 ) × 37 = 1534.9 m

### 5. Mortar filling inside joint pipe

Footing Top : -8.060 m  
 Steel pipe well Top : 4.840 m  
 Steel pipe well : 54.000 m  
 Steel pipe well Bottom : -49.160 m  
 Nothing inside joint pip : 1.400 m (Steel pipe well Bottom)  
 Inside joint pipe : 37 number (Circumference + Diaphragm Wall)  
 inside joint pipe area : 0.025 m<sup>2</sup> (φ 165.2\*t11)

Mortar length = ( -8.060 - -49.160 - 1.400 ) × 37 = 1468.9 m

Mortar quantity = 1468.9 × 0.025 = 36.7 m<sup>3</sup>

Consumption = 36.7 × ( 1 + K ) = 38.5 m<sup>3</sup>  
 (K: Correction factor = 0.05 )

### 6. Sealing inside joint pipe

Footing Top : -8.060 m  
 Steel pipe well Top : 4.840 m  
 Nothing inside joint pip : 0.300 m (Steel pipe well Bottom)  
 Steel pipe well Top : 30 number (Circumference)

Sealing length = ( 4.840 - -8.060 - 0.300 ) × 30 = 378.0 m

Sealing quantity = 378.0 × 0.025 = 9.5 m<sup>3</sup>

Consumption = 9.5 × ( 1 + K ) = 10.8 m<sup>3</sup>  
 (K: Correction factor = 0.14 )

Sealing bag = 378.0 × 2 = 756.0 m

## 7. Excavation inside the well

### (1) Excavation

well Outside	:	11.373 m	(Bridge axial direction)
well Outside	:	17.164 m	(Right angle direction)
Steel pipe well	:	1.200 m	
Steel pipe well area	:	1.131 m <sup>2</sup>	
Steel pipe well	:	30 number	(Circumference)
Steel pipe well	:	6 number	(Diaphragm Wall)

$$\begin{aligned} \text{Inside the well area} &= (11.373 - 1.200)^2 \times \pi / 4 \\ &+ (17.164 - 11.373) \times (11.373 - 1.200) \\ &- 1.131 \times 30 / 2 \\ &= 123.2 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Diaphragm Wall area} &= 1.131 \times 6 = 6.8 \text{ m}^2 \\ &= 123.2 - 6.8 \\ &= 116.4 \end{aligned}$$

Ground level	:	-6.276 m
Footing Top	:	-8.060 m
Footing	:	4.000 m
Bottom slab	:	2.000 m
Spread sand	:	0.500 m

$$\begin{aligned} &= 123.2 \times (-6.276 - -8.060 + 4.000) \\ &+ 116.4 \times (2.000 + 0.500) \\ &= 1003.6 \text{ m}^3 \end{aligned}$$

### (2) Backfill inside the well

Pier	:	4.000 m	(Bridge axial direction)
	:	11.000 m	(Right angle direction)

$$\begin{aligned} \text{Pier area} &= (4.000)^2 \times \pi / 4 + (11.000 - 4.000) \times 4.000 \\ &= 40.6 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Inside the well area} &= (11.373)^2 \times \pi / 4 + (17.164 - 11.373) \times 11.373 \\ &= 167.4 \text{ m}^2 \end{aligned}$$

$$\text{Backfill} = (167.4 - 40.6) \times (-6.276 - -8.060) = 226.2 \text{ m}^3$$

### (3) Surplus soil (waste soil)

$$\text{Surplus soil} = 1003.6 - 226.2 = 777.4 \text{ m}^3$$

## 8. Footing concrete

Inside the well area	:	123.2 m <sup>2</sup>
Footing	:	4.000 m

$$\text{Footing concrete} = 123.2 \times 4.000 = 492.8 \text{ m}^3$$

### 9. Bottom slab concrete

Inside the well area	:	116.4	m <sup>2</sup>		
Bottom slab	:	2.000	m		
Bottom slab concrete	=	116.4	×	2.000	= 232.8 m <sup>3</sup>
Consumption	=	232.8	×	( 1 + K )	= 253.8 m <sup>3</sup>
(K: Correction factor	=	0.09	)		

### 10. Spread sand

Inside the well area	:	116.4	m <sup>2</sup>		
Spread sand	:	0.500	m		
Spread sand	=	116.4	×	0.500	= 58.2 m <sup>3</sup>

### 11. Welding of the dowel

Steel pipe well	:	30	number	(Circumference)	
Moment Re-bar	:	10	Stage		
Shearforce Re-bar	:	19	Stage		
Welding of the dowel	=	30	×	( 10 + 19 )	
	=	870	Stage		

### 12. Pile head

Steel pipe well	:	1.200	m			
Steel pipe well area	:	1.131	m <sup>2</sup>			
Steel pipe well	:	6	number	(Diaphragm Wall)		
Filled concrete	:	1.300	m	(Subtraction of imbedding)	: 1.200 m	
Ground level	:	-6.276	m			
Footing Bottom	:	-12.060	m			
Excavation inside	=	1.131	×	( -6.276 - -12.060 + 1.200 )	×	6
	=	47.4	m <sup>3</sup>			
Concrete filling	=	1.131	×	1.200	×	6
	=	8.1	m <sup>3</sup>			

### 13. Cut-off the pipe

Steel pipe well	:	30	number	(Circumference)		
		6	number	(Diaphragm Wall)		
Steel pipe well Top	:	4.840	m			
Cut-off Position	:	-7.560	m			
	:	-11.960	m			
Cut-off	=	4.840	-	-7.560	= 12.400 m	(Circumference)
	=	4.840	-	-11.960	= 16.800 m	(Diaphragm Wall)

14. Falsework

1st stage : 0.350 m (H-350 × 350 × 12 × 19)  
 2nd stage : 0.400 m (2H-400 × 400 × 13 × 21)  
 3rd,4th stage : 0.300 m (H-300 × 300 × 10 × 15)

Strut of the 1st stag : 2 number Pillar : 8 number  
 Strut of the 2nd stag : 4 number Pillar : 16 number  
 Strut of the 3rd stag : 2 number Pillar : 8 number  
 Strut of the 4th stag : 2 number Pillar : 8 number

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Mounting space : 0.030 m

wale(wale(guide) of the 1st stage)

1st stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 ) × π = 26.996 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 ) × 2 = 16.486 m  
 Total = 55.064 m

2nd stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 ) × π = 26.839 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 ) × 2 = 16.286 m  
 Total = 54.707 m

3rd,4th stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 ) × π = 27.153 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 ) × 2 = 16.686 m  
 Total = 55.421 m

Strut

L1= 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 = 8.243 m  
 L2= 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 = 8.143 m  
 L3= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m  
 L4= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m

Pillar Span : 1.3 m

L1= 1.300 × 1.414 = 1.838 m  
 L2= 1.300 × 1.414 = 1.838 m  
 L3= 1.300 × 1.414 = 1.838 m  
 L4= 1.300 × 1.414 = 1.838 m

15. Concrete filling to space between steel pipe well and wale

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Steel pipe well : 30 number

1st stage : 0.350 m  
 2nd stage : 0.400 m  
 3rd,4th stage : 0.300 m

$$\begin{aligned} \text{1st stage} &= 11.373^2 \times \pi/4 + (17.164 - 11.373) \times 11.373 \\ &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\ &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\ &\quad - 1.200^2 \times \pi/4 \times 30 \\ &= 18.3 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{2nd,3rd,4th stage} &= (11.373 - 1.200)^2 \times \pi/4 \\ &\quad + (17.164 - 11.373) \times (11.373 - 1.200) \\ &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\ &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\ &\quad - 1.200^2 \times \pi/4 \times 30 \div 2 \\ &= 8.0 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{1st stage} &= 18.3 \times 0.350 \times 1 = 6.4 \text{ m}^3 \\ \text{2nd stage} &= 8.0 \times 0.400 \times 2 = 6.4 \text{ m}^3 \\ \text{3rd stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3 \\ \text{4th stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3 \end{aligned}$$

---


$$\text{Total} = 17.6 \text{ m}^3$$

$$\begin{aligned} \text{Consumption} &= 17.6 \times (1 + K) = 18.3 \text{ m}^3 \\ (\text{K: Correction factor} &= 0.04) \end{aligned}$$

$$\text{Formwork} = 18.3 \times 1 + 8.0 \times 4 = 50.3 \text{ m}^2$$



16. Quantity Tabel

(1) Steel pipe well

Type: A,D,E 14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.372 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.3 m	0.723	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: B,C,F 14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	18.0 m	7.362	1	7.362 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.372 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	16.3 m	0.681	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: G 1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	3	6.558 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.3 m	0.723	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	

Type:H 1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	18.0 m	7.362	1	7.362 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	3	6.558 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	16.3 m	0.681	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	

Type:I 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	35.0 m	14.315	1	14.315 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.372 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.3 m	0.723	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type:J 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	36.0 m	14.724	1	14.724 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	18.0 m	7.362	1	7.362 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.372 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	16.3 m	0.681	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Total	$\phi$ 1200	t= 14mm	( SKY400 )	488.346 t
	$\phi$ 1200	t= 14mm	( SKY490 )	110.430 t
	$\phi$ 1200	t= 16mm	( SKY400 )	224.160 t
	$\phi$ 165.2	t= 11mm	( STK400 )	161.764 t
	Reinforcement Band		( SS400 )	2.880 t
	Members for Perimeter Field Welding (Backing Ring Stopper)		( SS400 )	0.432 t
	Stopper		( SS400 )	288 piece
	Sling①		( SM490A )	0.360 t
	Sling②		( SM490A )	0.936 t
	Interlocking Toe		( SS400 )	74 piece
	Precut			74 point
	In-situ Attached Interlocking			74 point

(2) Supporting

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
Guide frame							
	H-350 × 350 × 12 × 19	48.505	1	135.0	6,548	SS400	Outside
	H-350 × 350 × 12 × 19	38.578	1	135.0	5,208	SS400	Inside
	H-350 × 350 × 12 × 19	16.486	1	135.0	2,226	SS400	Diaphragm Wall
				Total	13,982		
Guide pile							
	H-300 × 300 × 10 × 15	20.000	26	93.0	48,360	SS400	
Support Beam of Guide frame							
	[-200 × 90 × 8 × 13.5	2.530	13	30.3	997	SS400	
wale(wale(guide) of the 1st stage)							
	H-400 × 400 × 13 × 21	54.707	2	172.0	18,819	SS400	2nd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	3rd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	4th stage
strut							
	H-350 × 350 × 12 × 19	8.243	2	135.0	2,226	SS400	1st stage
	H-400 × 400 × 13 × 21	8.143	4	172.0	5,602	SS400	2nd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	3rd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	4th stage
Pillar							
	H-350 × 350 × 12 × 19	1.838	8	135.0	1,985	SS400	1st stage
	H-400 × 400 × 13 × 21	1.838	16	172.0	5,058	SS400	2nd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	3rd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	4th stage
					Main component	49,836 kg	
					Sub component (A)	10,964 kg	Main component × 0.22
					Sub component (B)	1,993 kg	Main component × 0.04

(3) Connection between steel pipe sheet pile and footing

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark
Moment Re-bar						
P1	D22	1.000	600	3.04	1,824	SD345
P2	D22	1.000	600	3.04	1,824	SD345
Shearforce Re-bar						
P3	D22	0.700	1140	3.04	2,428	SD345
P4	D22	0.700	1140	3.04	2,428	SD345
					Total	8,504 kg

(4) Pile head

Type	Specification	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
filled Re-bar							
	D29	2.530	72	5.04	918	SD345	
Tie hoop							
	D13	4.560	48	0.995	218	SD345	
Erection bar							
	D13	3.720	24	0.995	89	SD345	
					Total	1,225 kg	
Shear Connector							
	PL-32 × 16	3.597	12	4.02	174	SS400	
Stopper							
	PL-25 × 9	0.050	36	1.77	3	SS400	
					Total	177 kg	
					Total	1,402 kg	

(5) Others

Type	Item	Unit	Quantity	Remark	memo
<b>Concrete</b>					
	Concrete filling	(m <sup>3</sup> )	282.3	$\sigma_{ck}=21\text{N/mm}^2$	
	Concrete filling (Pile head)	(m <sup>3</sup> )	8.1	$\sigma_{ck}=24\text{N/mm}^2$	
	Concrete filling to space between steel pipe well and wale	(m <sup>3</sup> )	18.3	$\sigma_{ck}=18\text{N/mm}^2$	
	Formwork	(m <sup>2</sup> )	50.3		
	Footing concrete	(m <sup>3</sup> )	492.8	$\sigma_{ck}=24\text{N/mm}^2$	
	Bottom slab concrete	(m <sup>3</sup> )	253.8	$\sigma_{ck}=21\text{N/mm}^2$	
	Spread sand	(m <sup>3</sup> )	58.2		
<b>Mortar filling inside</b>					
	Mortar filling inside joint pipe	(m <sup>3</sup> )	38.5	$\sigma_{ck}=21\text{N/mm}^2$	
	Sealing inside joint pipe	(m <sup>3</sup> )	10.8	$\sigma_{ck}=0.2\text{N/mm}^2$	
	Sealing bag	(m)	756.0		
<b>Excavation</b>					
	Excavation inside the well	(m <sup>3</sup> )	1,003.6		1383.0
	Excavation inside	(m <sup>3</sup> )	332.0		
	Excavation inside (Pile head)	(m <sup>3</sup> )	47.4		
	Cleaning inside joint pipe	(m)	1,534.9		
	Backfill inside the well	(m <sup>3</sup> )	226.2		226.2
	Surplus soil (waste soil)	(m <sup>3</sup> )	777.4		1156.8

(6) Footing Re-bar

Type	Item	Specification	Division	Unit	Quantity	Remark	
Footing Re-bar	Re-bar	SD345	D 13		kg	—	
			D16~D25	D 16	"	4,498	
				D 19	"	—	
				D 22	"	3,116	
				D 25	"	—	
				Total	"	7,614	
			D29~D32	D 29	"	—	
				D 32	"	12,134	
				Total	"	12,134	
			D 35		"	—	
			D 38		"	—	
	D 51		"	33,024			
	Total		"	52,772			
	Mechanical splice	SD345	D 38		Point	—	
			D 51		"	87	
Total			"	87			

17. Road Average N-value

Soil Coefficient : 1.00

Stratum	Formation (m)	N-value	Thickness of Stratum (m)	L × N
Ground level	-6.276	-		
Silty Sand River Sediments	-14.35	3	8.07	24.21
Silty Sand- I	-19.35	13	5.00	65.00
CLAY-A II	-27.35	7	8.00	56.00
Clayey SAND-B	-28.35	13	1.00	13.00
CLAY-A II	-30.35	7	2.00	14.00
Clayey SAND-C	-36.35	20	6.00	120.00
Silty Sand- II	-46.35	30	10.00	300.00
Clayey-AIV	-49.16	30	2.81	84.30
Total		15.8	42.88	676.51

### 3. P15 PIER

#### 3.1 Quantity summary table

【 P15 PIER Quantity summary table (1/5) 】

Work Item	Item		Specification	Division	Unit	Quantity	Remark
Concrete	Reinforced Concrete Structure		$\sigma_{ck}=30\text{N/mm}^2$		m <sup>3</sup>	958.1	
Formwork	Reinforced Concrete Structure		normal form	$H \leq 30\text{m}$	m <sup>2</sup>	365.0	
			Plywood curved panel		"	272.6	
Bearing	Bearing Mortar		Non-shrinkage Mortar		m <sup>3</sup>	1.401	Superstructure construction
	Form for void for Anchor Bolt		Cylindrical mold $\phi 250$		m	16.4	
	Box-out Formwork				m <sup>2</sup>	11.8	
Falsework	Scaffolding (Hand rail precede type)		Average height	$H \leq 30\text{m}$	m <sup>2</sup>	943	
				$H > 30\text{m}$	"	—	
	Total					"	943
Supporting	Support (wedge type)	maximum height from the formation	Support capacity	Under 40kN/m <sup>2</sup>	m <sup>3</sup>	—	
				40kN/m <sup>2</sup> exceed			
				Under 80kN/m <sup>2</sup>	"	—	
				80kN/m <sup>2</sup> exceed	"	144	
	Total					"	144
Re-bar	Re-bar		SD345	D 13	kg	—	
				D16 ~ D25	"	64,666	
				D29 ~ D32	"	8,476	
				D 35	"	—	
				D 38	"	—	
				D 51	"	—	
				Total	"	73,142	
			SD390	D 38	"	65,771	
	Mechanical splice		SD345	D 35	Point	—	
				D 38	"	—	
				D 51	"	—	
				Total	"	—	
			SD390	D 38	"	580	



【 P15 PIER Quantity summary table (2/5) 】

Work Item	Component	Division		Unit	Quantity	Remark			
Steel pipe foundation	Steel pipe well	Steel pipe length( $\phi$ 1200mm)		m/Number	57.0				
		Pile number		Number	30	Outside Steel Pipe Well			
				"	6	Diaphragm Steel Sheet Pipe Wall			
		Total		"	36				
		Pile extension		m	2,052.0				
		Embedded depth			m	47.1	Soil Coefficient=1.00		
		1 number (Type A · D · E)	Steel pipe weight	$\phi$ 1200	t=14mm	t	13.088	SKY400	
					t=14mm	"	3.681	SKY490	
					t=16mm	"	7.472	SKY400	
				$\phi$ 165.2	t=11mm	"	4.606	STK400	
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
			Precut		"	2			
			1 number (Type B · C · F)	Steel pipe weight	$\phi$ 1200	t=14mm	t	13.088	SKY400
						t=14mm	"	3.681	SKY490
						t=16mm	"	7.472	SKY400
		$\phi$ 165.2			t=11mm	"	4.606	STK400	
		Accessories weight		Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
		Precut			"	2			
1 number (Type G)	Steel pipe weight	$\phi$ 1200		t=14mm	t	13.088	SKY400		
				t=14mm	"	3.681	SKY490		
				t=16mm	"	7.472	SKY400		
		$\phi$ 165.2	t=11mm	"	6.909	STK400			
	Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400			
		Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400			
			PL t=16mm	"	—	SS400			
			Sling	PL t=22mm	"	0.036	SM490A		
		Interlocking Toe	PL t=12mm	Piece	3	SS400			
		In-situ Attached Interlocking		Point	3	STK400			
	Precut		"	3					

【 P15 PIER Quantity summary table (3/5) 】

Work Item	Component	Division			Unit	Quantity	Remark	
Steel pipe foundation	Steel pipe well	1 number (Type H)	Steel pipe weight	φ 1200	t=14mm	t	13.088	SKY400
					t=14mm	"	3.681	SKY490
					t=16mm	"	7.472	SKY400
				φ 165.2	t=11mm	"	6.909	STK400
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400
					PL t=16mm	"	—	SS400
				Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	3	SS400
				In-situ Attached Interlocking		Point	3	STK400
		Precut		"	3			
		1 number (Type I)	Steel pipe weight	φ 1200	t=14mm	t	23.313	SKY400
					t=14mm	"	—	SKY490
					φ 165.2	t=11mm	"	4.606
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400
					PL t=16mm	"	—	SS400
				Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400
				In-situ Attached Interlocking		Point	2	STK400
			Precut		"	2		
		1 number (Type J)	Steel pipe weight	φ 1200	t=14mm	t	23.313	SKY400
					t=14mm	"	—	SKY490
					φ 165.2	t=11mm	"	4.606
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400
					PL t=16mm	"	—	SS400
				Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400
				In-situ Attached Interlocking		Point	2	STK400
			Precut		"	2		
		All number	Steel pipe weight	φ 1200	t=14mm	t	532.518	SKY400
t=14mm	"				110.430	SKY490		
t=16mm	"				224.160	SKY400		
φ 165.2	t=11mm				"	170.422	STK400	
Accessories weight	Reinforcement Band		PL t= 9mm	t	2.880	SS400		
	Members for Perimeter Field Welding (Backing Ring Stopper)		PL t=14mm	"	0.432	SS400		
			PL t=16mm	"	—	SS400		
	Sling		PL t=22mm	"	1.296	SM490A		
	Interlocking Toe		PL t=12mm	Piece	74	SS400		
	In-situ Attached Interlocking			Point	74	STK400		
Precut			"	74				

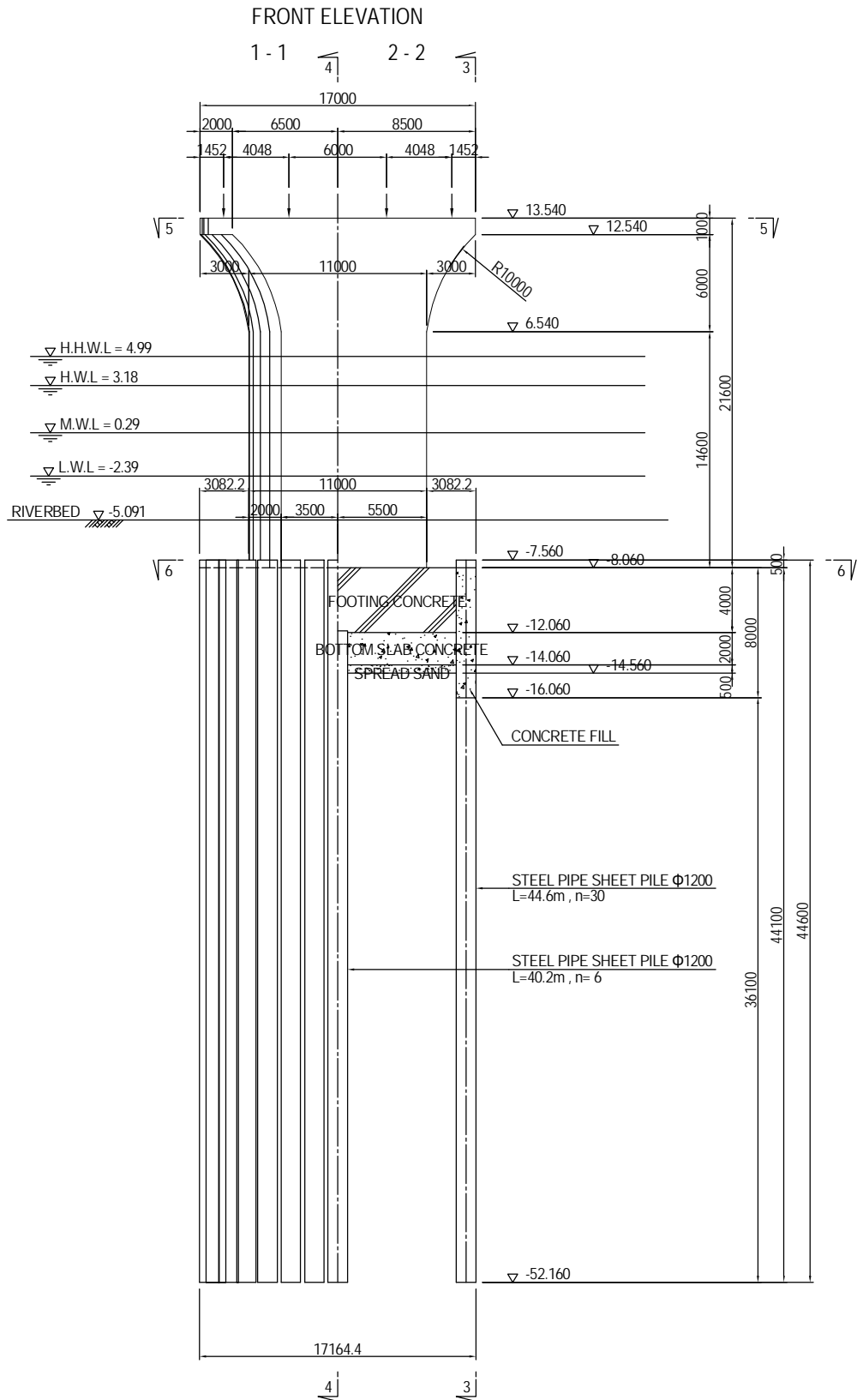
【 P15 PIER Quantity summary table (4/5) 】

Work Item	Component	Division		Unit	Quantity	Remark	
S t e e l  P i p e  f o u n d a t i o n	Excavation inside			m3	372.2		
		Pile head		"	55.4		
	Concrete filling	Fill concrete	$\sigma_{ck}=21\text{N/mm}^2$		m3	282.3	Correction factor=0.04
		Pile head	$\sigma_{ck}=24\text{N/mm}^2$		"	8.1	
	Cleaning inside joint pipe			m	1,682.4		
	Mortar filling inside joint pipe	$\sigma_{ck}=21\text{N/mm}^2$	Mortar length		m	1,572.5	Mortar=2.5m <sup>3</sup> /100m
			Mortar quantity		m3	41.3	Correction factor=0.05
	Sealing inside joint pipe	$\sigma_{ck}=0.2\text{N/mm}^2$	Sealing length		m	378.0	Mortar=2.5m <sup>3</sup> /100m
			Sealing quantity		m3	10.8	Correction factor=0.14
			Sealing bag		m	756.0	Sealing 100m=200.0
	Excavation inside the well			m3	1,149.6		
	Backfill inside the well			m3	376.5		
	Surplus soil (waste soil)			m3	773.1		
	Footing concrete	$\sigma_{ck}=24\text{N/mm}^2$		m3	492.8		
	Bottom slab concrete	$\sigma_{ck}=21\text{N/mm}^2$		m3	253.8	Correction factor=0.09	
	Spread sand			m3	58.2		
	Pile head	Shear Connector	PL-32 × 16 × 3597		kg	174	
		Stopper	PL-25 × 9 × 50		"	3	
	Pile head Re-bar	Re-bar	SD345	D 13	kg	307	
				D16 ~ D25	"	-	
				D29 ~ D32	"	918.0	
				Total	"	1,225	
	Footing Re-bar	Re-bar	SD345	D 13	kg	—	
D16 ~ D25				"	7,614		
D29 ~ D32				"	12,134		
D 35				"	—		
D 38				"	—		
D 51				"	31,707		
Total				"	51,455		
Mechanical splice		SD345	D 38	Point	—		
		D 51	"	89			
		Total	"	89			

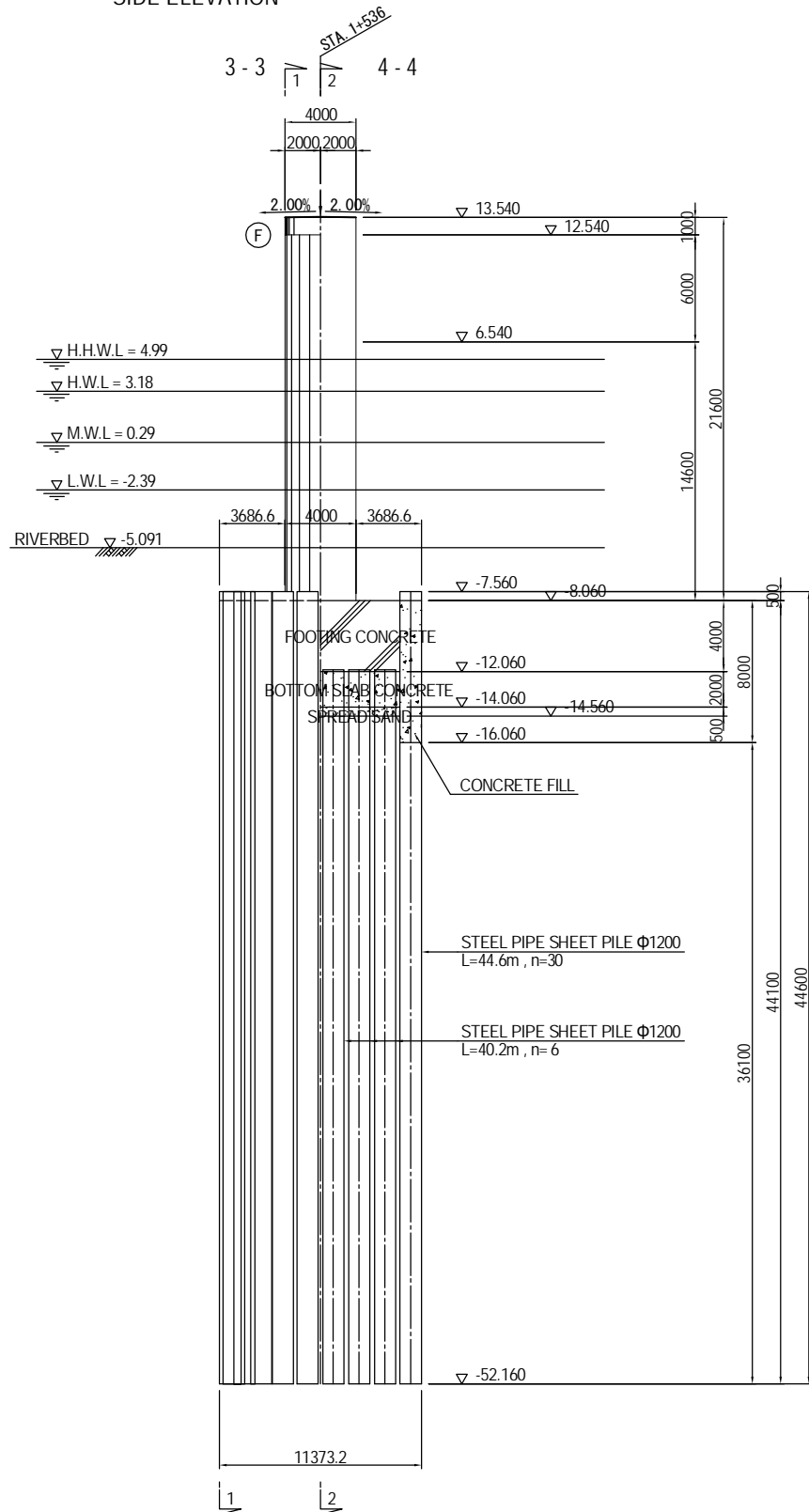
【 P15 PIER Quantity summary table (5/5) 】

Work Item	Component	Division		Unit	Quantity	Remark		
S t e e l  p i p e  f o u n d a t i o n	Falsework (guide frame, wale, strut)	Guide frame	H-350 × 350 × 12 × 19	t	14.0			
		Guide pile	H-300 × 300 × 10 × 15	"	48.4			
		Support Beam of Guide frame	[-200 × 90 × 8 × 13.5	"	1.0			
		wale	H-300 × 300 × 10 × 15	t	10.3			
			H-350 × 350 × 12 × 19	"	—			
			H-400 × 400 × 13 × 21	"	18.8			
		strut	H-300 × 300 × 10 × 15	t	3.1			
			H-350 × 350 × 12 × 19	"	2.2			
			H-400 × 400 × 13 × 21	"	5.6			
		Pillar	H-300 × 300 × 10 × 15	t	2.7			
			H-350 × 350 × 12 × 19	"	2.0			
			H-400 × 400 × 13 × 21	"	5.1			
		Main component Total				t	49.8	SS400
		Sub component A				"	11.0	22%
	Sub component B				"	2.0	4%	
	Total				"	62.8		
	Concrete filling to space between	Falsework	$\sigma_{ck}=18N/mm^2$		m3	18.3	Correction factor=0.04	
		Formwork			m2	50.3		
	Welding of the dowel	Welding of the dowel stage			Stage	840		
		Welding of the dowel Weight			kg	8,248		
	Cut-off the pipe	$\phi 1200$			Number	36		

3.2 General arrangement

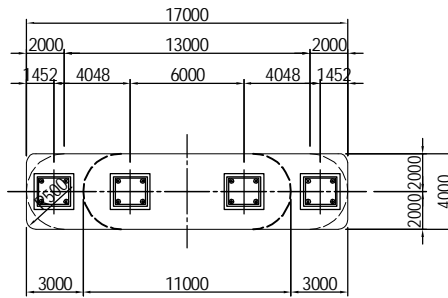


SIDE ELEVATION



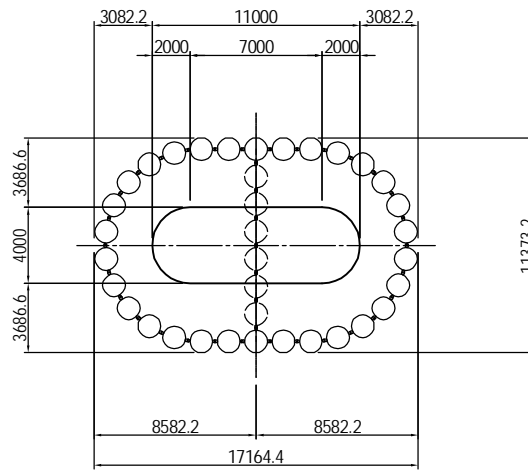
PLAN

5 - 5



PLAN

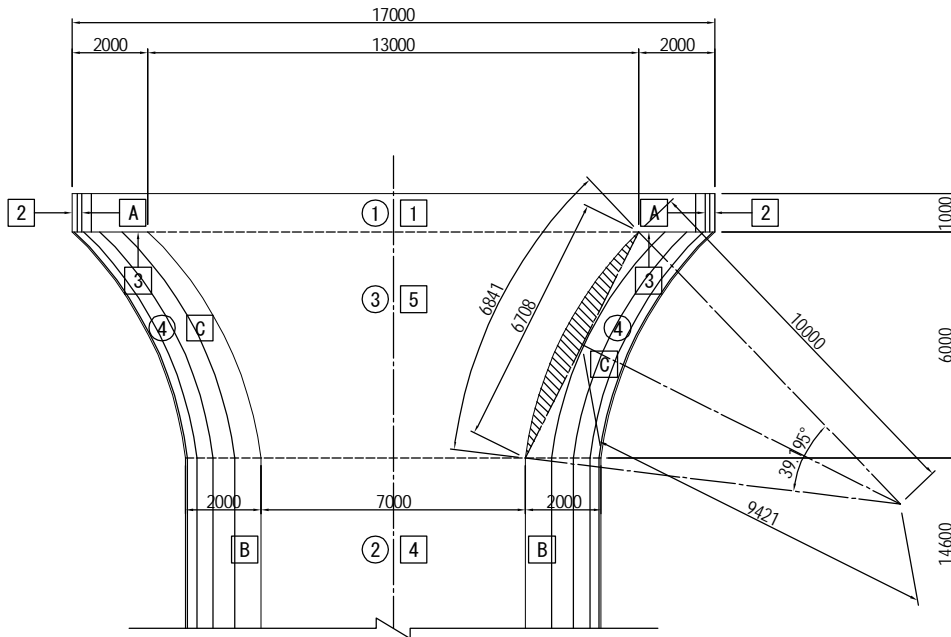
6 - 6



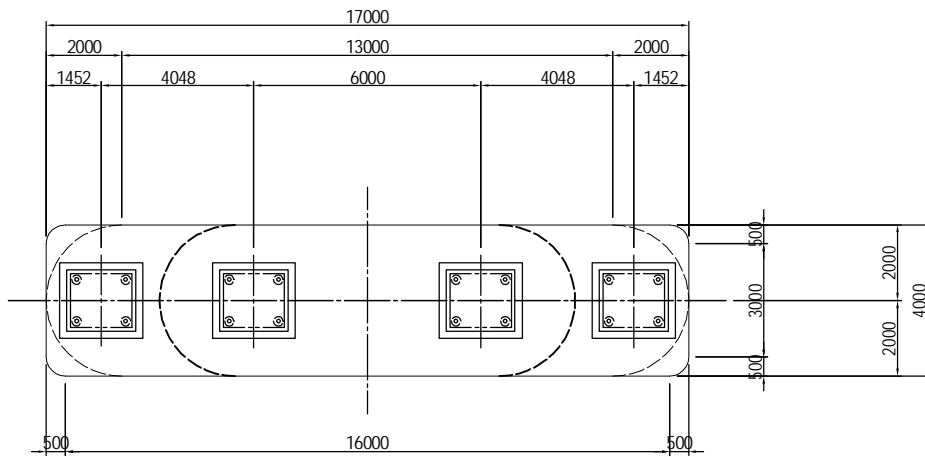
USE MATERIALS

	CONCRETE	BAR
BEAM	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD345
COLUMN	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD390 • SD345
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	SD345

SIDE ELEVATION



PLAN

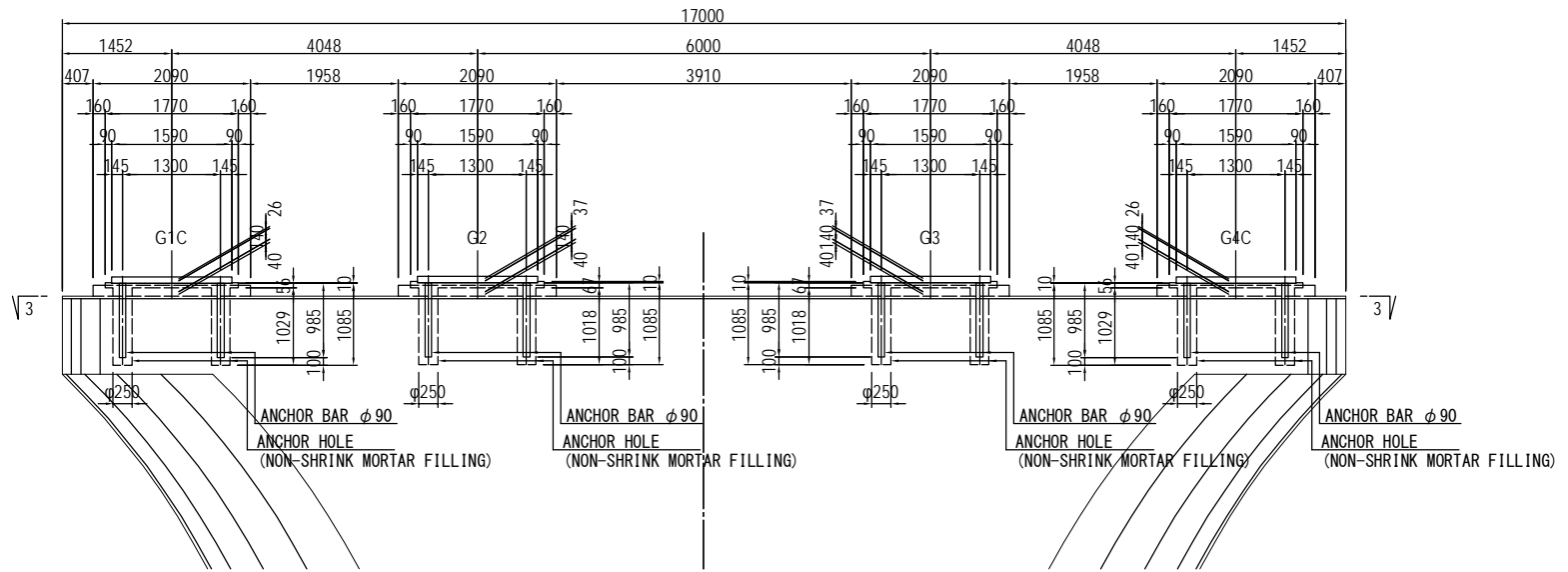




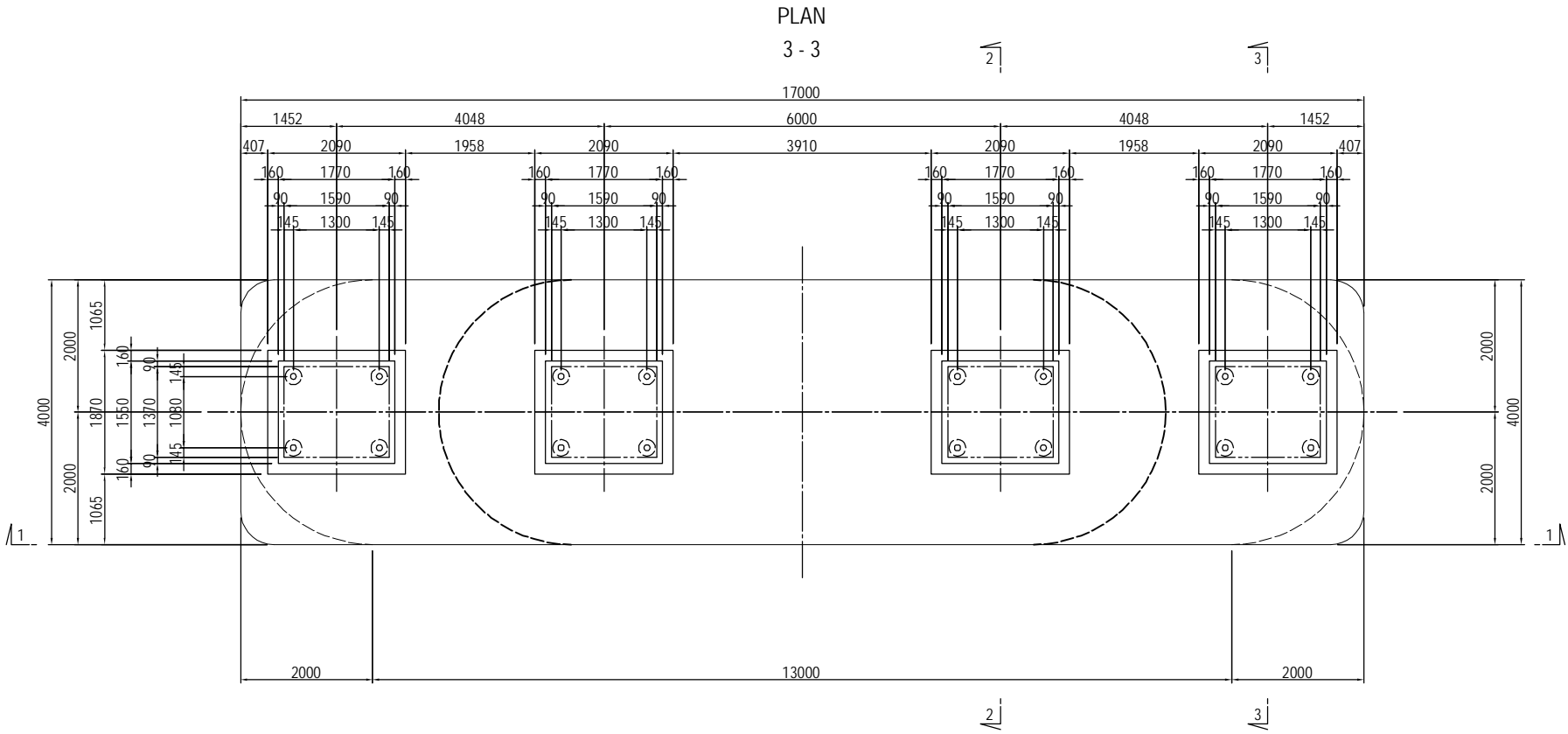
DETAIL OF BEARING AND ANCHOR

FRONT ELEVATION

1 - 1

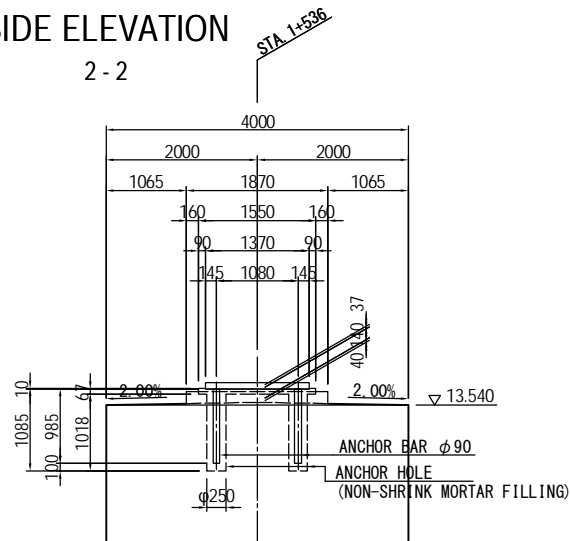


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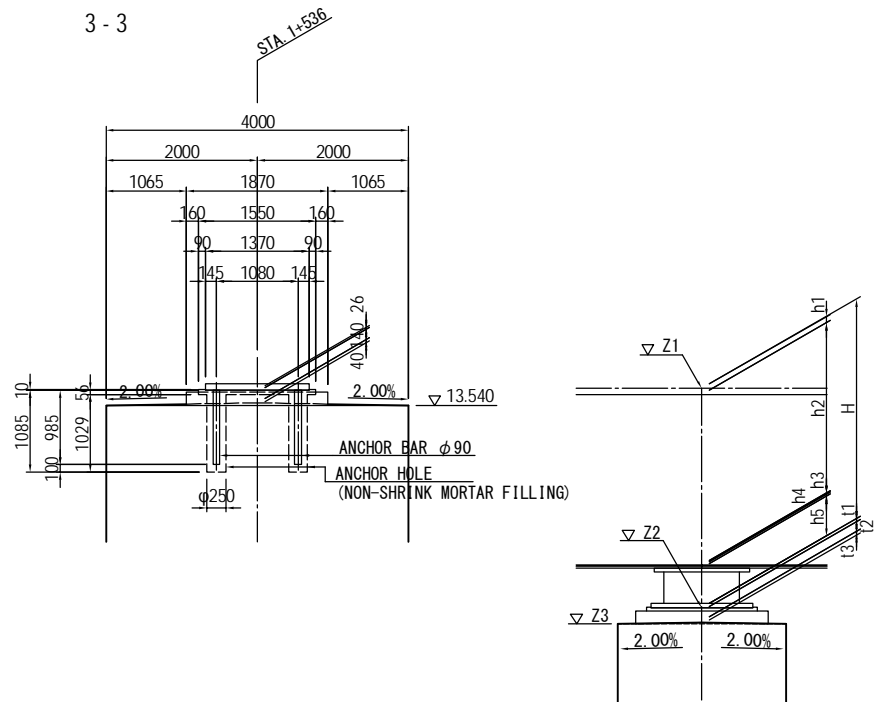
SIDE ELEVATION

2 - 2



SIDE ELEVATION

3 - 3



		P15 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	16.961	17.042	17.042	16.961
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.038	0.027	0.027	0.038
SOLE PLATE	h4	0.035	0.035	0.035	0.035
BEARING	h5	0.353	0.353	0.353	0.353
SUBTOTAL	H	3.215	3.285	3.285	3.215
ELEVATION OF BEARING BOTTOM	Z2	13.746	13.757	13.757	13.746
MORTAR	t1	0.026	0.037	0.037	0.026
BEARING BASE	t2	0.140	0.140	0.140	0.140
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	13.540	13.540	13.540	13.540

### 3.3 Concrete

(1) Pier ( $\sigma_{ck} = 30\text{N/mm}^2$ )

1) Top Beam

$$\textcircled{1} \quad 17.000 * 4.000 * 1.000 = 68.000 \text{ m}^3$$

Grade Concrete

$$1/2 * 2.000 * 0.040 * 17.000 * 2 = 1.360 \text{ ''}$$

Base Concrete

$$\text{G1} \sim \text{G4} \quad 2.090 * 1.870 * 0.140 * 4 = 2.189 \text{ ''}$$

Beam corner cut off

$$-(1.000 * 1.000 - \pi/4 * 1.000 * 1.000) * 1.000 = -0.215 \text{ ''}$$

---


$$\text{Top Beam total} = 71.334 \text{ m}^3$$

2) Beam and Pier Column

【 Cross section 】

$$A = \pi/4 * 4.000 * 4.000 + 7.000 * 4.000 = 40.566 \text{ m}^2$$

$$\textcircled{2} \quad 40.566 * 14.600 = 592.264 \text{ m}^3$$

$$\textcircled{3} \quad 1/2 * (7.000 + 13.000) * 6.000 * 4.000 = 240.000 \text{ ''}$$

$$\textcircled{4} \quad \pi/4 * 4.000 * 4.000 * 6.000 = 75.398 \text{ ''}$$

Subtraction of circular arc parts

$$- \left( \pi * 10.000 * 10.000 * \frac{39.195}{360} - \frac{1}{2} * 6.708 * 9.421 \right) * 4.000 * 2 = -20.848 \text{ ''}$$

---


$$\text{Beam and Pier Column total} = 886.814 \text{ m}^3$$

---


$$\text{Pier total} = 958.148 \text{ m}^3$$

### 3.4 Formwork

#### (1) Pier

【 Formwork Division 】 normal form

【 Structure Division 】 Reinforced Concrete Structure

【 height Division 】 [Average height ]  $H \leq 30m$

#### 1) Top Beam

$$\boxed{1} \quad 16.000 * 1.000 * 2 = 32.000 \text{ m}^2$$

$$\boxed{2} \quad 3.000 * 1.000 * 2 = 6.000 \text{ ''}$$

$$\boxed{3} \quad \left( 4.000 * 4.000 - \frac{\pi}{4} * 4.000 * 4.000 \right) - \left( 1.000 * 1.000 - \frac{\pi}{4} * 1.000 * 1.000 \right) = 3.219 \text{ ''}$$

#### Grade Concrete

$$1/2 * 2.000 * 0.040 * 2 * 2 = 0.160 \text{ ''}$$

#### Base Concrete

$$G1 \sim G4 \left( 2.090 + 1.870 \right) * 2 * 0.140 * 4 = 4.435 \text{ ''}$$

---


$$\text{Top Beam total} = 45.814 \text{ m}^2$$

#### 2) Beam and Pier Column

$$\boxed{4} \quad 7.000 * 14.600 * 2 = 204.400 \text{ m}^2$$

$$\boxed{5} \quad 1/2 * \left( 7.000 + 13.000 \right) * 6.000 * 2 = 120.000 \text{ ''}$$

#### Subtraction of circular arc parts

$$- \left( \pi * 10.000 * 10.000 * \frac{39.195}{360} - \frac{1}{2} * 6.708 * 9.421 \right) * 2 = -5.212 \text{ ''}$$

---


$$\text{Beam and Pier Column total} = 319.188 \text{ m}^2$$

---


$$\text{normal form total} = 365.002 \text{ m}^2$$

【 Structure Division 】 Reinforced Concrete Structure(Plywood curved panel)

1) Top Beam

<span style="border: 1px solid black; padding: 2px;">A</span>	$\pi$	*	1.000	*	1.000		=	3.142 m2
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2) Beam and Pier Column

<span style="border: 1px solid black; padding: 2px;">B</span>	$\pi$	*	4.000	*	14.600		=	183.469 m2
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<span style="border: 1px solid black; padding: 2px;">C</span>	$\pi$	*	4.000	*	6.841		=	85.967 "
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	Beam and Pier Column total	=	269.436 m2
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	Plywood curved panel total	=	272.578 m2
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3.5 Re-bar

Work Item	Item	Specification	Division	Unit	Quantity	Remark	
Re-bar	Re-bar	SD345	D 13	kg	—		
			D16~D25	D 16	"	2,363	
				D 19	"	—	
				D 22	"	62,303	
				D 25	"	—	
				Total	"	64,666	
				D29~D32	D 29	"	—
			D 32		"	8,476	
			Total		"	8,476	
			D 35	"	—		
			D 38	"	—		
			D 51	"	—		
			Total	"	73,142		
			SD390	D 38	"	65,771	
	Mechanical splice	SD345	D 35	Point	—		
			D 38	"	—		
			D 51	"	—		
			Total	"	—		
		SD390	D 38	"	580		

### 3.6 Bearing

(1) Non-shrinkage Mortar

* G1&G4	$t_1 = 36$	mm												
Bearing	1.770	*	1.550	*	0.036		=	0.0988 m3						
Box-out	1.770	*	1.550	*	0.030		=	0.0823 "						
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.029	*	4	=	0.2020 "	
Base pl	-	1.590	*	1.370	*	0.010		=	-0.0218 "					
Anchor	-1/4	*	$\pi$	*	0.090	*	0.090	*	0.985	*	4	=	-0.0251 "	
<hr/>														
v1												=	0.3362 m3	
* G2&G3	$t_2 = 47$	mm												
Bearing	1.770	*	1.550	*	0.047		=	0.1289 m3						
Box-out	1.770	*	1.550	*	0.030		=	0.0823 "						
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.018	*	4	=	0.1999 "	
Base pl	-	1.590	*	1.370	*	0.010		=	-0.0218 "					
Anchor	-1/4	*	$\pi$	*	0.090	*	0.090	*	0.985	*	4	=	-0.0251 "	
<hr/>														
v2												=	0.3642 m3	
V	=	0.3362	*	2	+	0.3642	*	2					=	<u>1.4008 m3</u>

(2) Form for void for Anchor Bolt

【 Cylindrical mold 】	$\phi = 250$	mm									
L1	=	1.029	*	4	*	2		=	8.232 m		
L2	=	1.018	*	4	*	2		=	8.144 "		
<hr/>											
$\Sigma L$										=	<u>16.376 m</u>

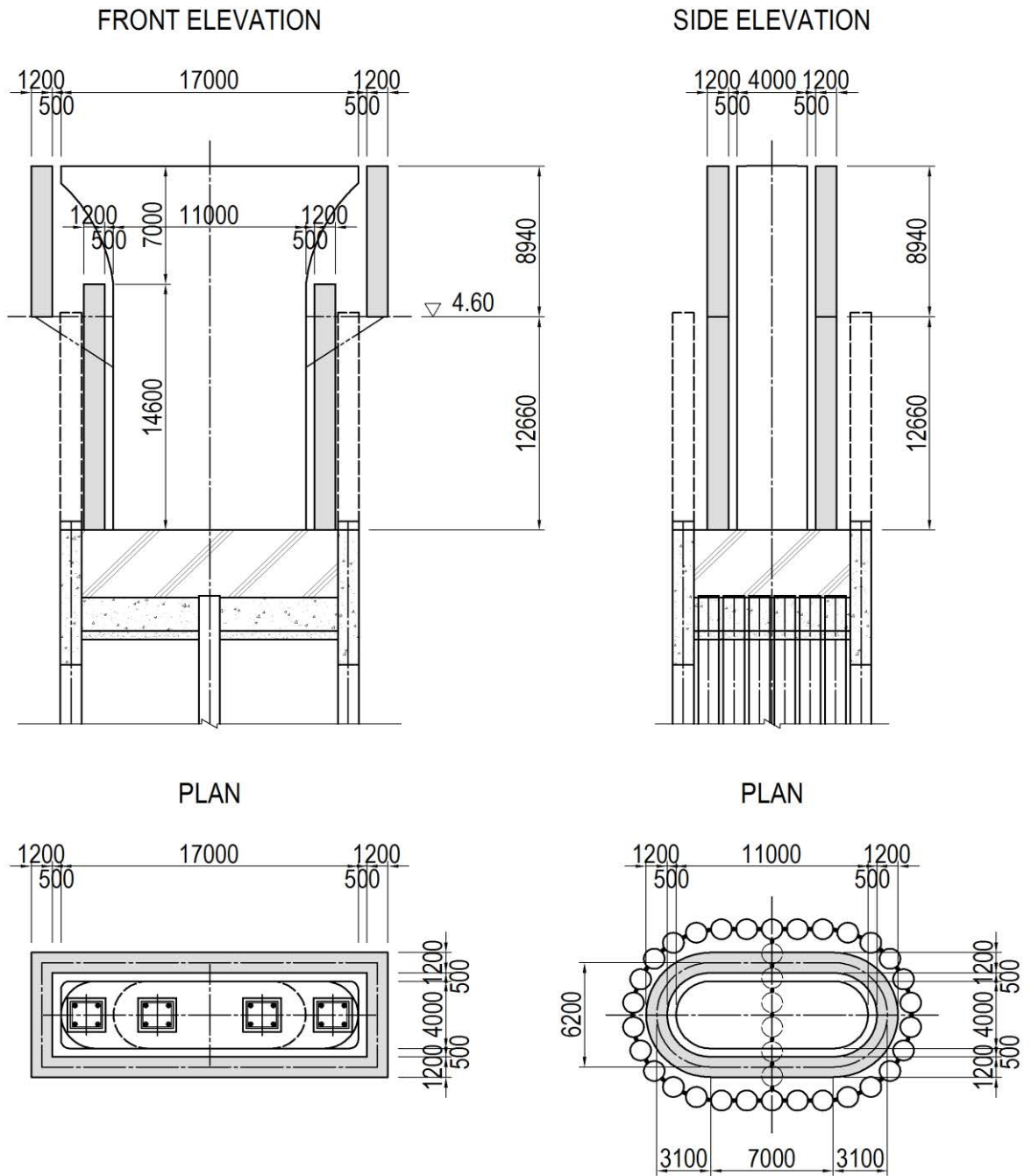
(3) Form for box-out

$$A = \{ 2 * ( 1.770 + 1.550 ) * 0.030 + 1.770 * 1.550 \} * 4 = \underline{11.771 \text{ m}^2}$$



### 3.7 Falsework

(1) Scaffolding (Hand rail precede type)



【height Division】 [Average height] ----  $H \leq 30m$

1) Beam

(Falsework height) H1 = 8.940 m

$$W = \{ 2 * ( 17.000 + 4.000 ) + 8.800 \} * 8.940 = 454.15 \text{ m}^2$$

2) Pierstud

(Falsework height) H2 = 14.600 m

$$W1 = 7.000 * 14.600 * 2 = 204.40 \text{ m}^2$$

$$W2 = \pi * 6.200 * 14.600 = 284.38 \text{ ''}$$

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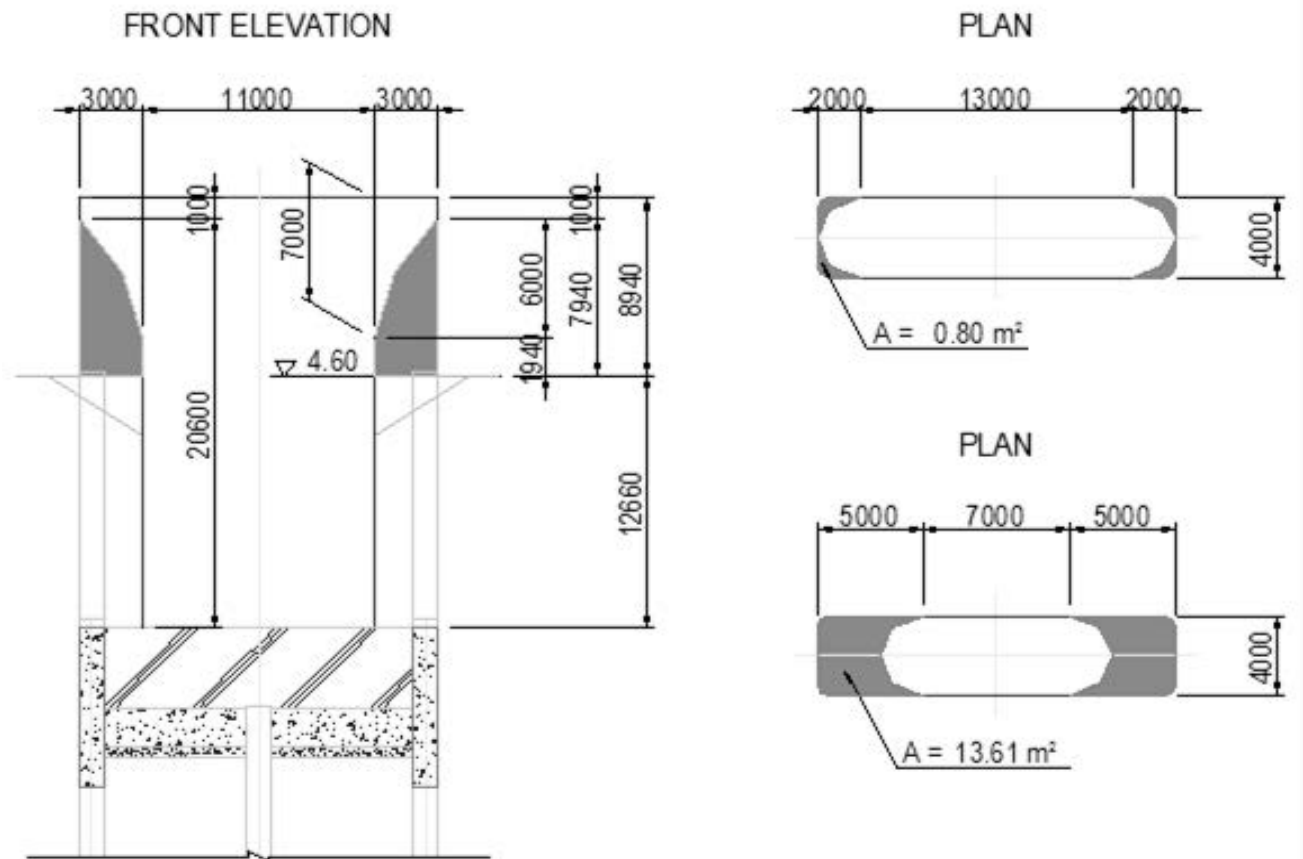

$$\text{Pierstud total} = 488.78 \text{ m}^2$$

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$$\text{Scaffolding (Hand rail precede type) total} = 942.93 \text{ m}^2$$

### 3.8 Supporting

#### (1) Support (wedge type)



【height Division】 [Average height] -----  $H \leq 30\text{m}$

[maximum height from the formation] -----  $H \leq 30\text{m}$

#### 【Average height】

$$H = 1/2 * ( 1.940 + 7.940 ) = \underline{\underline{4.940 \text{ m}}}$$

#### 【Support capacity】

$$\begin{aligned} \text{Average concrete } t &= 1/2 * ( 100.0 + 700.0 ) = \underline{\underline{400.0 \text{ cm}}} \\ &= 250\text{cm} < t \end{aligned}$$

$$\text{Support capacity } \omega = 80\text{kN/m}^2 < \omega$$

#### 【Supporting area】

$$\begin{aligned} A1 &= 13.61 * 2 = 27.22 \text{ m}^2 \\ A2 &= 0.80 * 4 = 3.20 \text{ m}^2 \end{aligned}$$

【Supporting vorum】

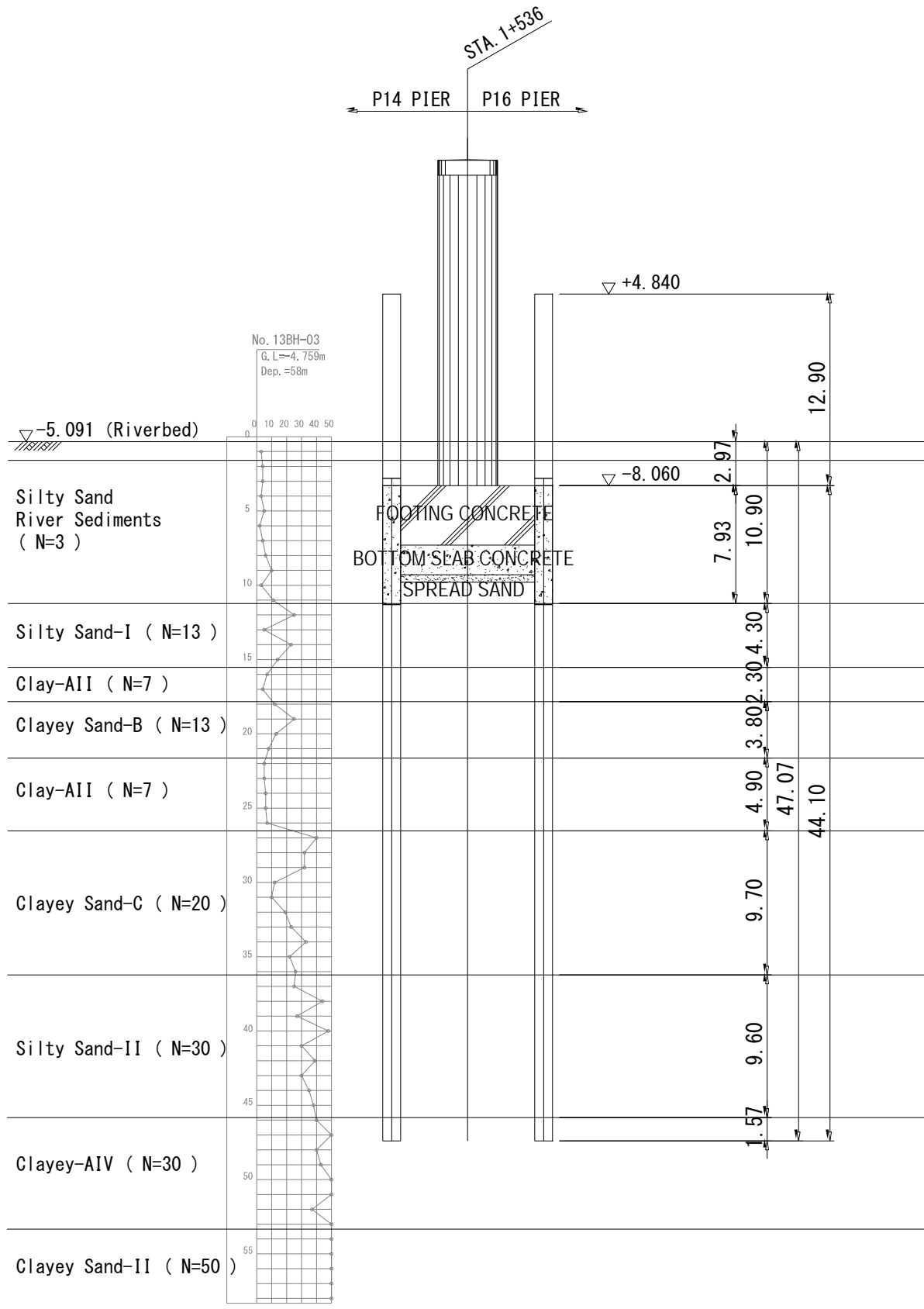
$$V1 = 27.22 * 1.940 = 52.81 \text{ m}^3$$

$$V2 = 1/2 * ( 27.22 + 3.20 ) * 6.000 = 91.26 \text{ ''}$$

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$$\text{Supporting Total} = 144.07 \text{ m}^3$$

### 3.9 Foundation



1. ruler

Guide frame : 0.350 m (H-350 × 350 × 12 × 19)  
Weight : 135.0 kg/m

well Outside : 11.373 m (Bridge axial direction)  
well Outside : 17.164 m (Right angle direction)  
Steel pipe well : 1.200 m  
Mounting space : 0.030 m

Guide frame (Outside)

$$\begin{aligned} L1 &= ( 11.373 + 0.030 + 0.350 ) \times \pi & = & 36.923 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 & = & 11.582 \text{ m} \\ \text{Total} & & = & 48.505 \text{ m} \\ W1 &= 48.505 \times 135.0 & = & 6.548 \text{ t} \end{aligned}$$

Guide frame (Inside)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 ) \times \pi & = & 26.996 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 & = & 11.582 \text{ m} \\ \text{Total} & & = & 38.578 \text{ m} \\ W2 &= 38.578 \times 135.0 & = & 5.208 \text{ t} \end{aligned}$$

Guide frame (Diaphragm Wall)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 \times 2 ) \times 2 & = & 16.486 \text{ m} \\ W3 &= 16.486 \times 135.0 & = & 2.226 \text{ t} \end{aligned}$$

Total

$$W = W1 + W2 + W3 = 6.548 + 5.208 + 2.226 = 13.982 \text{ t}$$

Guide frame : 0.300 m (H-300 × 300 × 10 × 15)  
Weight : 93.0 kg/m  
Guide pile : 20.000 m

Guide pile

$$\begin{aligned} n1 &= 26 \text{ number} \\ W1 &= 26 \times 20.000 \times 93.0 = 48.360 \text{ t} \end{aligned}$$

2. Excavation inside

Steel pipe well : 1.200 m  
Steel pipe well area : 1.131 m<sup>2</sup>  
Steel pipe well number : 30 number (Circumference)  
Ground level : -5.091 m  
Footing Top : -8.060 m  
Footing : 4.000 m

$$\begin{aligned} \text{Excavation inside} &= 1.131 \times ( -5.091 - -8.060 + 4.000 \times 2 ) \times 30 \\ &= 372.2 \text{ m}^3 \end{aligned}$$

### 3. Concrete filling

Steel pipe well	:	1.200	m						
Steel pipe well area	:	1.131	m <sup>2</sup>						
Filled concrete	:	8.000	m						
Steel pipe well number	:	30	number	(Circumference)					
Concrete filling	=	1.131	×	8.000	×	30	=	271.4	m <sup>3</sup>
Consumption	=	271.4	×	( 1 + K )	=	282.3	m <sup>3</sup>		
(K: Correction factor	=	0.04	)						

### 4. Cleaning inside joint pipe

Ground level	:	-5.091	m				
Steel pipe well Top	:	4.840	m				
Steel pipe well	:	57.000	m				
Steel pipe well Bottom	:	-52.160	m				
Nothing inside joint pip	:	1.600	m	(Steel pipe well Bottom)			
Inside joint pipe	:	37	number	(Circumference + Diaphragm Wall)			
Cleaning inside joint pipe	=	( -5.091 - -52.160 - 1.600 )	×	37	=	1682.4	m

### 5. Mortar filling inside joint pipe

Footing Top	:	-8.060	m				
Steel pipe well Top	:	4.840	m				
Steel pipe well	:	57.000	m				
Steel pipe well Bottom	:	-52.160	m				
Nothing inside joint pip	:	1.600	m	(Steel pipe well Bottom)			
Inside joint pipe	:	37	number	(Circumference + Diaphragm Wall)			
inside joint pipe area	:	0.025	m <sup>2</sup>	( $\phi$ 165.2*t11)			
Mortar length	=	( -8.060 - -52.160 - 1.600 )	×	37	=	1572.5	m
Mortar quantity	=	1572.5	×	0.025	=	39.3	m <sup>3</sup>
Consumption	=	39.3	×	( 1 + K )	=	41.3	m <sup>3</sup>
(K: Correction factor	=	0.05	)				

### 6. Sealing inside joint pipe

Footing Top	:	-8.060	m				
Steel pipe well Top	:	4.840	m				
Nothing inside joint pip	:	0.300	m	(Steel pipe well Bottom)			
Steel pipe well Top	:	30	number	(Circumference)			
Sealing length	=	( 4.840 - -8.060 - 0.300 )	×	30	=	378.0	m
Sealing quantity	=	378.0	×	0.025	=	9.5	m <sup>3</sup>
Consumption	=	9.5	×	( 1 + K )	=	10.8	m <sup>3</sup>
(K: Correction factor	=	0.14	)				
Sealing bag	=	378.0	×	2	=	756.0	m

## 7. Excavation inside the well

### (1) Excavation

well Outside	:	11.373 m	(Bridge axial direction)
well Outside	:	17.164 m	(Right angle direction)
Steel pipe well	:	1.200 m	
Steel pipe well area	:	1.131 m <sup>2</sup>	
Steel pipe well	:	30 number	(Circumference)
Steel pipe well	:	6 number	(Diaphragm Wall)

$$\begin{aligned} \text{Inside the well area} &= (11.373 - 1.200)^2 \times \pi / 4 \\ &+ (17.164 - 11.373) \times (11.373 - 1.200) \\ &- 1.131 \times 30 \div 2 \\ &= 123.2 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Diaphragm Wall area} &= 1.131 \times 6 = 6.8 \text{ m}^2 \\ &= 123.2 - 6.8 \\ &= 116.4 \end{aligned}$$

Ground level	:	-5.091 m
Footing Top	:	-8.060 m
Footing	:	4.000 m
Bottom slab	:	2.000 m
Spread sand	:	0.500 m

$$\begin{aligned} &= 123.2 \times (-5.091 - -8.060 + 4.000) \\ &+ 116.4 \times (2.000 + 0.500) \\ &= 1149.6 \text{ m}^3 \end{aligned}$$

### (2) Backfill inside the well

Pier	:	4.000 m	(Bridge axial direction)
	:	11.000 m	(Right angle direction)

$$\begin{aligned} \text{Pier area} &= (4.000)^2 \times \pi / 4 + (11.000 - 4.000) \times 4.000 \\ &= 40.6 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Inside the well area} &= (11.373)^2 \times \pi / 4 + (17.164 - 11.373) \times 11.373 \\ &= 167.4 \text{ m}^2 \end{aligned}$$

$$\text{Backfill} = (167.4 - 40.6) \times (-5.091 - -8.060) = 376.5 \text{ m}^3$$

### (3) Surplus soil (waste soil)

$$\text{Surplus soil} = 1149.6 - 376.5 = 773.1 \text{ m}^3$$

## 8. Footing concrete

Inside the well area	:	123.2 m <sup>2</sup>
Footing	:	4.000 m

$$\text{Footing concrete} = 123.2 \times 4.000 = 492.8 \text{ m}^3$$



### 9. Bottom slab concrete

Inside the well area	:	116.4	m <sup>2</sup>	
Bottom slab	:	2.000	m	
Bottom slab concrete	=	116.4	×	2.000 = 232.8 m <sup>3</sup>
Consumption	=	232.8	×	( 1 + K ) = 253.8 m <sup>3</sup>
(K: Correction factor	=	0.09	)	

### 10. Spread sand

Inside the well area	:	116.4	m <sup>2</sup>	
Spread sand	:	0.500	m	
Spread sand	=	116.4	×	0.500 = 58.2 m <sup>3</sup>

### 11. Welding of the dowel

Steel pipe well	:	30	number	(Circumference)
Moment Re-bar	:	10	Stage	
Shearforce Re-bar	:	18	Stage	
Welding of the dowel	=	30	×	( 10 + 18 )
	=	840	Stage	

### 12. Pile head

Steel pipe well	:	1.200	m	
Steel pipe well area	:	1.131	m <sup>2</sup>	
Steel pipe well	:	6	number	(Diaphragm Wall)
Filled concrete	:	1.300	m	(Subtraction of imbedding) : 1.200 m
Ground level	:	-5.091	m	
Footing Bottom	:	-12.060	m	
Excavation inside	=	1.131	×	( -5.091 - -12.060 + 1.200 ) × 6
	=	55.4	m <sup>3</sup>	
Concrete filling	=	1.131	×	1.200 × 6
	=	8.1	m <sup>3</sup>	

### 13. Cut-off the pipe

Steel pipe well	:	30	number	(Circumference)
		6	number	(Diaphragm Wall)
Steel pipe well Top	:	4.840	m	
Cut-off Position	:	-7.560	m	
	:	-11.960	m	
Cut-off	=	4.840	-	-7.560 = 12.400 m (Circumference)
	=	4.840	-	-11.960 = 16.800 m (Diaphragm Wall)

14. Falsework

1st stage : 0.350 m (H-350 × 350 × 12 × 19)  
 2nd stage : 0.400 m (2H-400 × 400 × 13 × 21)  
 3rd,4th stage : 0.300 m (H-300 × 300 × 10 × 15)

Strut of the 1st stag : 2 number Pillar : 8 number  
 Strut of the 2nd stag : 4 number Pillar : 16 number  
 Strut of the 3rd stag : 2 number Pillar : 8 number  
 Strut of the 4th stag : 2 number Pillar : 8 number

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Mounting space : 0.030 m

wale(wale(guide) of the 1st stage)

1st stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 ) × π = 26.996 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 ) × 2 = 16.486 m  
 Total = 55.064 m

2nd stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 ) × π = 26.839 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 ) × 2 = 16.286 m  
 Total = 54.707 m

3rd,4th stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 ) × π = 27.153 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 ) × 2 = 16.686 m  
 Total = 55.421 m

Strut

L1= 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 = 8.243 m  
 L2= 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 = 8.143 m  
 L3= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m  
 L4= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m

Pillar Span : 1.3 m

L1= 1.300 × 1.414 = 1.838 m  
 L2= 1.300 × 1.414 = 1.838 m  
 L3= 1.300 × 1.414 = 1.838 m  
 L4= 1.300 × 1.414 = 1.838 m

15. Concrete filling to space between steel pipe well and wale

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Steel pipe well : 30 number

1st stage : 0.350 m  
 2nd stage : 0.400 m  
 3rd,4th stage : 0.300 m

$$\begin{aligned}
 \text{1st stage} &= 11.373^2 \times \pi/4 + (17.164 - 11.373) \times 11.373 \\
 &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\
 &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\
 &\quad - 1.200^2 \times \pi/4 \times 30 \\
 &= 18.3 \text{ m}^2
 \end{aligned}$$

$$\begin{aligned}
 \text{2nd,3rd,4th stage} &= (11.373 - 1.200)^2 \times \pi/4 \\
 &\quad + (17.164 - 11.373) \times (11.373 - 1.200) \\
 &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\
 &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\
 &\quad - 1.200^2 \times \pi/4 \times 30 \quad / \quad 2 \\
 &= 8.0 \text{ m}^2
 \end{aligned}$$

$$\begin{aligned}
 \text{1st stage} &= 18.3 \times 0.350 \times 1 = 6.4 \text{ m}^3 \\
 \text{2nd stage} &= 8.0 \times 0.400 \times 2 = 6.4 \text{ m}^3 \\
 \text{3rd stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3 \\
 \text{4th stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3
 \end{aligned}$$

---


$$\text{Total} = 17.6 \text{ m}^3$$

$$\begin{aligned}
 \text{Consumption} &= 17.6 \times (1 + K) = 18.3 \text{ m}^3 \\
 (\text{K: Correction factor} &= 0.04)
 \end{aligned}$$

$$\text{Formwork} = 18.3 \times 1 + 8.0 \times 4 = 50.3 \text{ m}^2$$

16. Quantity Tabel

(1) Steel pipe well

Type: A,D,E 14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	22.0 m	8.998	1	8.998 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.606 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	20.1 m	0.840	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: B,C,F 14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	21.0 m	8.589	1	8.589 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.606 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	19.1 m	0.798	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: G 1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	22.0 m	8.998	1	8.998 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	3	6.909 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	20.1 m	0.840	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	

Type:H 1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	21.0 m	8.589	1	8.589 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	3	6.909 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	19.1 m	0.798	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	

Type:I 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	35.0 m	14.315	1	14.315 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	22.0 m	8.998	1	8.998 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.606 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	20.1 m	0.840	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type:J 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	36.0 m	14.724	1	14.724 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	21.0 m	8.589	1	8.589 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.606 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	19.1 m	0.798	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Total	φ 1200	t= 14mm	( SKY400 )	532.518 t
	φ 1200	t= 14mm	( SKY490 )	110.430 t
	φ 1200	t= 16mm	( SKY400 )	224.160 t
	φ 165.2	t= 11mm	( STK400 )	170.422 t
	Reinforcement Band		( SS400 )	2.880 t
	Members for Perimeter Field Welding (Backing Ring Stopper)		( SS400 )	0.432 t
	Stopper		( SS400 )	288 piece
	Sling①		( SM490A )	0.360 t
	Sling②		( SM490A )	0.936 t
	Interlocking Toe		( SS400 )	74 piece
	Precut			74 point
	In-situ Attached Interlocking			74 point

(2) Supporting

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
Guide frame							
	H-350 × 350 × 12 × 19	48.505	1	135.0	6,548	SS400	Outside
	H-350 × 350 × 12 × 19	38.578	1	135.0	5,208	SS400	Inside
	H-350 × 350 × 12 × 19	16.486	1	135.0	2,226	SS400	Diaphragm Wall
					Total	13,982	
Guide pile							
	H-300 × 300 × 10 × 15	20.000	26	93.0	48,360	SS400	
Support Beam of Guide frame							
	[-200 × 90 × 8 × 13.5	2.530	13	30.3	997	SS400	
wale(wale(guide) of the 1st stage)							
	H-400 × 400 × 13 × 21	54.707	2	172.0	18,819	SS400	2nd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	3rd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	4th stage
strut							
	H-350 × 350 × 12 × 19	8.243	2	135.0	2,226	SS400	1st stage
	H-400 × 400 × 13 × 21	8.143	4	172.0	5,602	SS400	2nd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	3rd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	4th stage
Pillar							
	H-350 × 350 × 12 × 19	1.838	8	135.0	1,985	SS400	1st stage
	H-400 × 400 × 13 × 21	1.838	16	172.0	5,058	SS400	2nd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	3rd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	4th stage
					Main component	49,836 kg	
					Sub component (A)	10,964 kg	Main component × 0.22
					Sub component (B)	1,993 kg	Main component × 0.04

(3) Connection between steel pipe sheet pile and footing

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark
Moment Re-bar						
P1	D22	1.000	600	3.04	1,824	SD345
P2	D22	1.000	600	3.04	1,824	SD345
Shearforce Re-bar						
P3	D22	0.700	1080	3.04	2,300	SD345
P4	D22	0.700	1080	3.04	2,300	SD345
					Total	8,248 kg

(4) Pile head

Type	Specification	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
filled Re-bar							
	D29	2.530	72	5.04	918	SD345	
Tie hoop							
	D13	4.560	48	0.995	218	SD345	
Erection bar							
	D13	3.720	24	0.995	89	SD345	
					Total	1,225 kg	
Shear Connector							
	PL-32 × 16	3.597	12	4.02	174	SS400	
Stopper							
	PL-25 × 9	0.050	36	1.77	3	SS400	
					Total	177 kg	
					Total	1,402 kg	

(5) Others

Type	Item	Unit	Quantity	Remark	memo
<b>Concrete</b>					
	Concrete filling	(m <sup>3</sup> )	282.3	$\sigma_{ck}=21\text{N/mm}^2$	
	Concrete filling (Pile head)	(m <sup>3</sup> )	8.1	$\sigma_{ck}=24\text{N/mm}^2$	
	Concrete filling to space between steel pipe well and wale	(m <sup>3</sup> )	18.3	$\sigma_{ck}=18\text{N/mm}^2$	
	Formwork	(m <sup>2</sup> )	50.3		
	Footing concrete	(m <sup>3</sup> )	492.8	$\sigma_{ck}=24\text{N/mm}^2$	
	Bottom slab concrete	(m <sup>3</sup> )	253.8	$\sigma_{ck}=21\text{N/mm}^2$	
	Spread sand	(m <sup>3</sup> )	58.2		
<b>Mortar filling inside</b>					
	Mortar filling inside joint pipe	(m <sup>3</sup> )	41.3	$\sigma_{ck}=21\text{N/mm}^2$	
	Sealing inside joint pipe	(m <sup>3</sup> )	10.8	$\sigma_{ck}=0.2\text{N/mm}^2$	
	Sealing bag	(m)	756.0		
<b>Excavation</b>					
	Excavation inside the well	(m <sup>3</sup> )	1,149.6		1577.2
	Excavation inside	(m <sup>3</sup> )	372.2		
	Excavation inside (Pile head)	(m <sup>3</sup> )	55.4		
	Cleaning inside joint pipe	(m)	1,682.4		
	Backfill inside the well	(m <sup>3</sup> )	376.5		376.5
	Surplus soil (waste soil)	(m <sup>3</sup> )	773.1		1200.7



(6) Footing Re-bar

Type	Item	Specification	Division	Unit	Quantity	Remark	
Footing Re-bar	Re-bar	SD345	D 13		kg	—	
			D16~D25	D 16	"	4,498	
				D 19	"	—	
				D 22	"	3,116	
				D 25	"	—	
				Total	"	7,614	
			D29~D32	D 29	"	—	
				D 32	"	12,134	
				Total	"	12,134	
			D 35		"	—	
			D 38		"	—	
			D 51		"	31,707	
			Total		"	51,455	
	Mechanical splice	SD345	D 38		Point	—	
			D 51		"	89	
			Total		"	89	

17. Road Average N-value

Soil Coefficient : 1.00

Stratum	Formation (m)	N-value	Thickness of Stratum (m)	L × N
Ground level	-5.091	-		
Silty Sand River Sediments	-15.99	3	10.90	32.70
Silty Sand- I	-20.29	13	4.30	55.90
CLAY-A II	-22.59	7	2.30	16.10
Clayey SAND-B	-26.39	13	3.80	49.40
CLAY-A II	-31.29	7	4.90	34.30
Clayey SAND-C	-40.99	20	9.70	194.00
Silty Sand- II	-50.59	30	9.60	288.00
Clayey-AIV	-52.16	30	1.57	47.10
Total		15.2	47.07	717.50

#### 4. P16 PIER

##### 4.1 Quantity summary table

【 P16 PIER Quantity summary table (1/5) 】

Work Item	Item		Specification	Division	Unit	Quantity	Remark
Concrete	Reinforced Concrete Structure		$\sigma_{ck}=30\text{N/mm}^2$		m <sup>3</sup>	945.5	
Formwork	Reinforced Concrete Structure		normal form	$H \leq 30\text{m}$	m <sup>2</sup>	359.9	
			Plywood curved panel		"	268.8	
Bearing	Bearing Mortar		Non-shrinkage Mortar		m <sup>3</sup>	1.304	Superstructure construction
	Form for void for Anchor Bolt		Cylindrical mold $\phi 250$		m	16.5	
	Box-out Formwork				m <sup>2</sup>	11.8	
Falsework	Scaffolding (Hand rail precede type)		Average height	$H \leq 30\text{m}$	m <sup>2</sup>	918	
				$H > 30\text{m}$	"	—	
	Total					"	918
Supporting	Support (wedge type)	maximum height from the formation	Support capacity	Under 40kN/m <sup>2</sup>	m <sup>3</sup>	—	
				40kN/m <sup>2</sup> exceed			
				Under 80kN/m <sup>2</sup>	"	—	
				80kN/m <sup>2</sup> exceed	"	136	
	Total					"	136
Re-bar	Re-bar		SD345	D 13	kg	—	
				D16 ~ D25	"	63,810	
				D29 ~ D32	"	8,476	
				D 35	"	—	
				D 38	"	—	
				D 51	"	—	
				Total	"	72,286	
			SD390	D 38	"	64,992	
	Mechanical splice		SD345	D 35	Point	—	
				D 38	"	—	
				D 51	"	—	
				Total	"	—	
						SD390	D 38

【 P16 PIER Quantity summary table (2/5) 】

Work Item	Component	Division		Unit	Quantity	Remark			
Steel pipe foundation	Steel pipe well	Steel pipe length( $\phi$ 1200mm)		m/Number	55.0				
		Pile number		Number	30	Outside Steel Pipe Well			
				"	6	Diaphragm Steel Sheet Pipe Wall			
		Total		"	36				
		Pile extension		m	1,980.0				
		Embedded depth			m	44.9	Soil Coefficient=1.00		
		Number (Type A·D·E)	Steel pipe weight	$\phi$ 1200	t=14mm	t	12.270	SKY400	
					t=14mm	"	3.681	SKY490	
					t=16mm	"	7.472	SKY400	
				$\phi$ 165.2	t=11mm	"	4.464	STK400	
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
			Precut		"	2			
			Number (Type B·C·F)	Steel pipe weight	$\phi$ 1200	t=14mm	t	12.270	SKY400
						t=14mm	"	3.681	SKY490
						t=16mm	"	7.472	SKY400
		$\phi$ 165.2			t=11mm	"	4.464	STK400	
		Accessories weight		Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
Precut		"		2					
Number (Type G)	Steel pipe weight	$\phi$ 1200		t=14mm	t	12.270	SKY400		
				t=14mm	"	3.681	SKY490		
				t=16mm	"	7.472	SKY400		
		$\phi$ 165.2	t=11mm	"	6.696	STK400			
	Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400			
		Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400			
			PL t=16mm	"	—	SS400			
			Sling	PL t=22mm	"	0.036	SM490A		
		Interlocking Toe	PL t=12mm	Piece	3	SS400			
		In-situ Attached Interlocking		Point	3	STK400			
	Precut		"	3					

【 P16 PIER Quantity summary table (3/5) 】

Work Item	Component	Division			Unit	Quantity	Remark	
Steel pipe foundation	Steel pipe well	1 number (Type H)	Steel pipe weight	φ 1200	t=14mm	t	12.270	SKY400
					t=14mm	"	3.681	SKY490
					t=16mm	"	7.472	SKY400
				φ 165.2	t=11mm	"	6.696	STK400
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400
					PL t=16mm	"	—	SS400
				Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	3	SS400
				In-situ Attached Interlocking		Point	3	STK400
		Precut		"	3			
		1 number (Type I)	Steel pipe weight	φ 1200	t=14mm	t	22.495	SKY400
					t=14mm	"	—	SKY490
					φ 165.2	t=11mm	"	4.464
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400
					PL t=16mm	"	—	SS400
				Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400
				In-situ Attached Interlocking		Point	2	STK400
			Precut		"	2		
		1 number (Type J)	Steel pipe weight	φ 1200	t=14mm	t	22.495	SKY400
					t=14mm	"	—	SKY490
					φ 165.2	t=11mm	"	4.464
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400
					PL t=16mm	"	—	SS400
				Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400
				In-situ Attached Interlocking		Point	2	STK400
			Precut		"	2		
		All number	Steel pipe weight	φ 1200	t=14mm	t	503.070	SKY400
t=14mm	"				110.430	SKY490		
t=16mm	"				224.160	SKY400		
φ 165.2	t=11mm				"	165.168	STK400	
Accessories weight	Reinforcement Band		PL t= 9mm	t	2.880	SS400		
	Members for Perimeter Field Welding (Backing Ring Stopper)		PL t=14mm	"	0.432	SS400		
			PL t=16mm	"	—	SS400		
	Sling		PL t=22mm	"	1.296	SM490A		
	Interlocking Toe		PL t=12mm	Piece	74	SS400		
	In-situ Attached Interlocking			Point	74	STK400		
Precut			"	74				

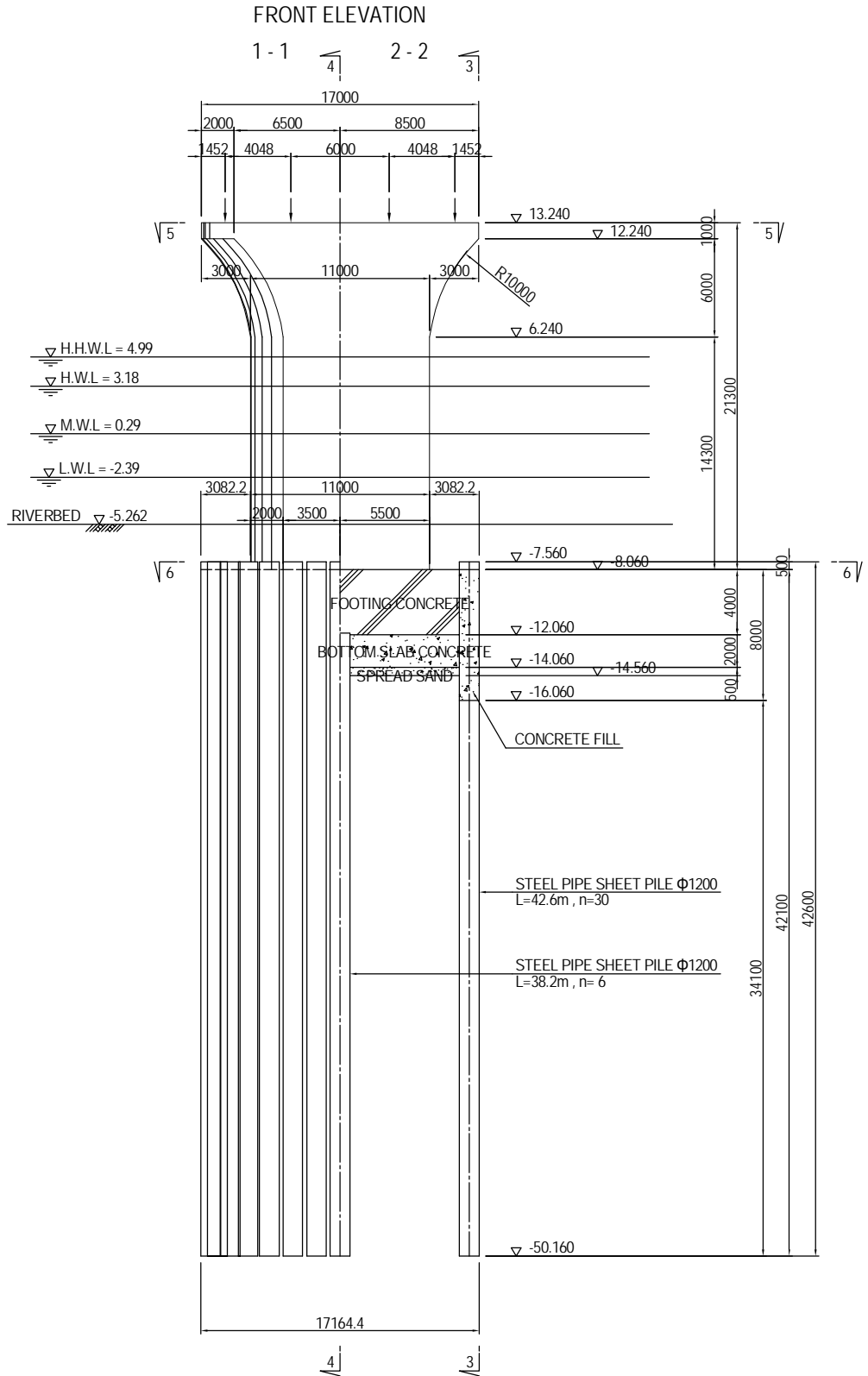
【 P16 PIER Quantity summary table (4/5) 】

Work Item	Component	Division		Unit	Quantity	Remark	
S t e e l  P i p e  f o u n d a t i o n	Excavation inside			m3	366.4		
		Pile head		"	54.3		
	Concrete filling	Fill concrete	$\sigma_{ck}=21\text{N/mm}^2$		m3	282.3	Correction factor=0.04
		Pile head	$\sigma_{ck}=24\text{N/mm}^2$		"	8.1	
	Cleaning inside joint pipe			m	1,613.1		
	Mortar filling inside joint pipe	$\sigma_{ck}=21\text{N/mm}^2$	Mortar length		m	1,509.6	Mortar=2.5m <sup>3</sup> /100m
			Mortar quantity		m3	39.6	Correction factor=0.05
	Sealing inside joint pipe	$\sigma_{ck}=0.2\text{N/mm}^2$	Sealing length		m	378.0	Mortar=2.5m <sup>3</sup> /100m
			Sealing quantity		m3	10.8	Correction factor=0.14
			Sealing bag		m	756.0	Sealing 100m=200.0
	Excavation inside the well			m3	1,128.5		
	Backfill inside the well			m3	354.8		
	Surplus soil (waste soil)			m3	773.7		
	Footing concrete	$\sigma_{ck}=24\text{N/mm}^2$		m3	492.8		
	Bottom slab concrete	$\sigma_{ck}=21\text{N/mm}^2$		m3	253.8	Correction factor=0.09	
	Spread sand			m3	58.2		
	Pile head	Shear Connector	PL-32 × 16 × 3597		kg	174	
		Stopper	PL-25 × 9 × 50		"	3	
	Pile head Re-bar	Re-bar	SD345	D 13	kg	307	
				D16 ~ D25	"	-	
				D29 ~ D32	"	918.0	
				Total	"	1,225	
	Footing Re-bar	Re-bar	SD345	D 13	kg	—	
D16 ~ D25				"	7,614		
D29 ~ D32				"	12,134		
D 35				"	—		
D 38				"	—		
D 51				"	31,707		
Total				"	51,455		
Mechanical splice		SD345	D 38	Point	—		
			D 51	"	89		
	Total		"	89			

【 P16 PIER Quantity summary table (5/5) 】

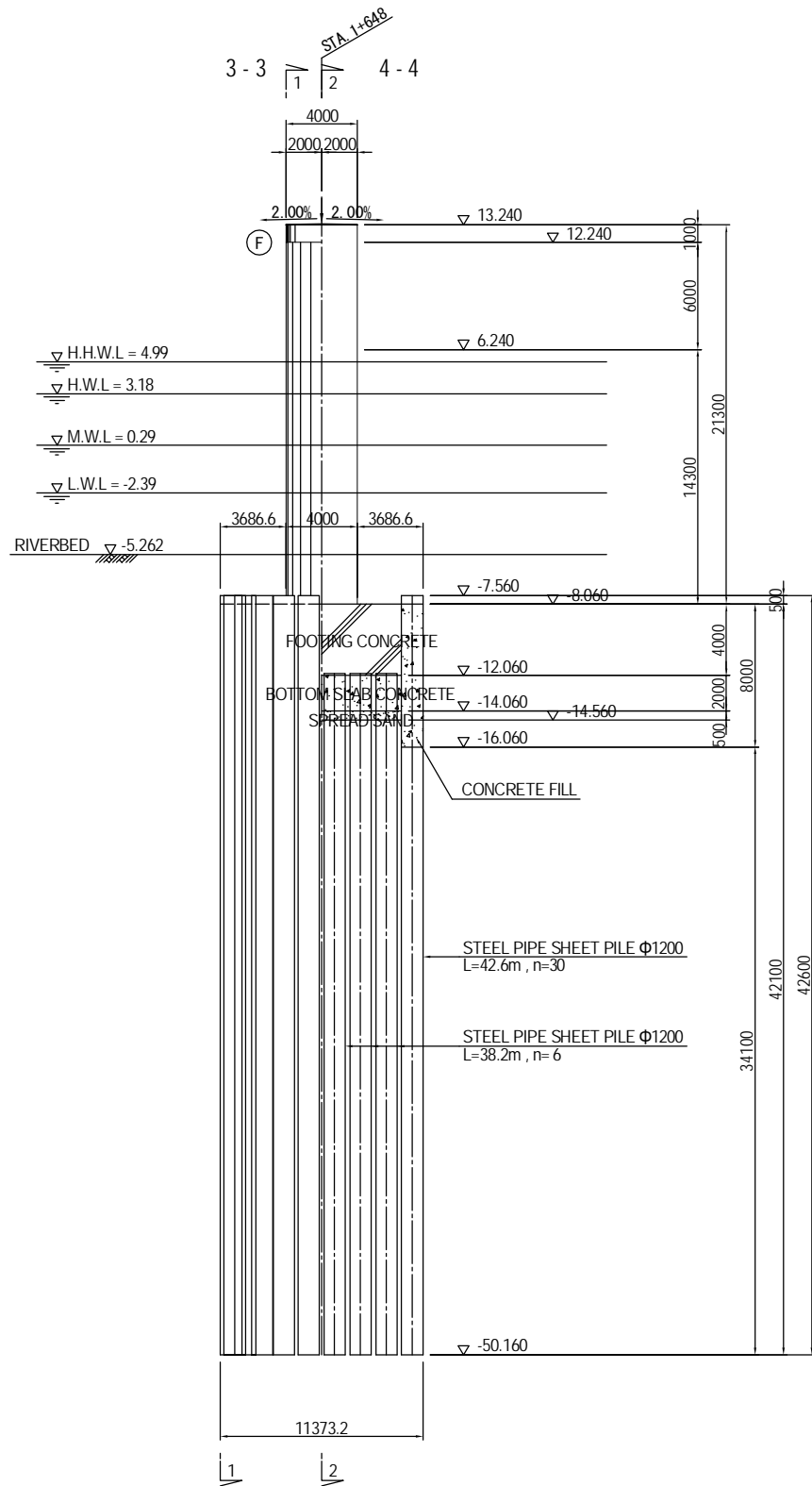
Work Item	Component	Division		Unit	Quantity	Remark		
S t e e l  p i p e  f o u n d a t i o n	Falsework (guide frame, wale, strut)	Guide frame	H-350 × 350 × 12 × 19	t	14.0			
		Guide pile	H-300 × 300 × 10 × 15	"	48.4			
		Support Beam of Guide frame	[-200 × 90 × 8 × 13.5	"	1.0			
		wale	H-300 × 300 × 10 × 15	t	10.3			
			H-350 × 350 × 12 × 19	"	—			
			H-400 × 400 × 13 × 21	"	18.8			
		strut	H-300 × 300 × 10 × 15	t	3.1			
			H-350 × 350 × 12 × 19	"	2.2			
			H-400 × 400 × 13 × 21	"	5.6			
		Pillar	H-300 × 300 × 10 × 15	t	2.7			
			H-350 × 350 × 12 × 19	"	2.0			
			H-400 × 400 × 13 × 21	"	5.1			
		Main component Total				t	49.8	SS400
		Sub component A				"	11.0	22%
	Sub component B				"	2.0	4%	
	Total				"	62.8		
	Concrete filling to space between	Falsework	$\sigma_{ck}=18N/mm^2$		m3	18.3	Correction factor=0.04	
		Formwork			m2	50.3		
	Welding of the dowel	Welding of the dowel stage			Stage	840		
		Welding of the dowel Weight			kg	8,248		
	Cut-off the pipe	$\phi 1200$			Number	36		

4.2 General arrangement



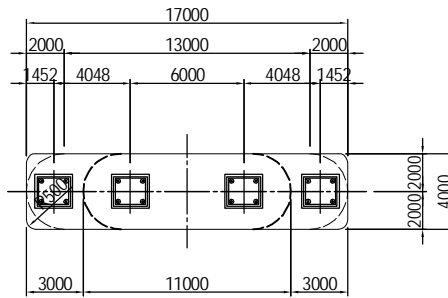


SIDE ELEVATION



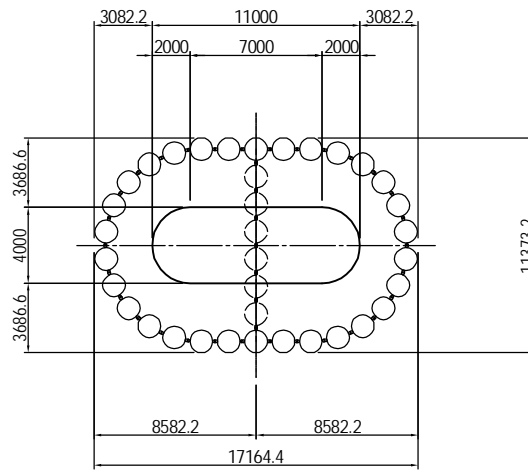
PLAN

5 - 5



PLAN

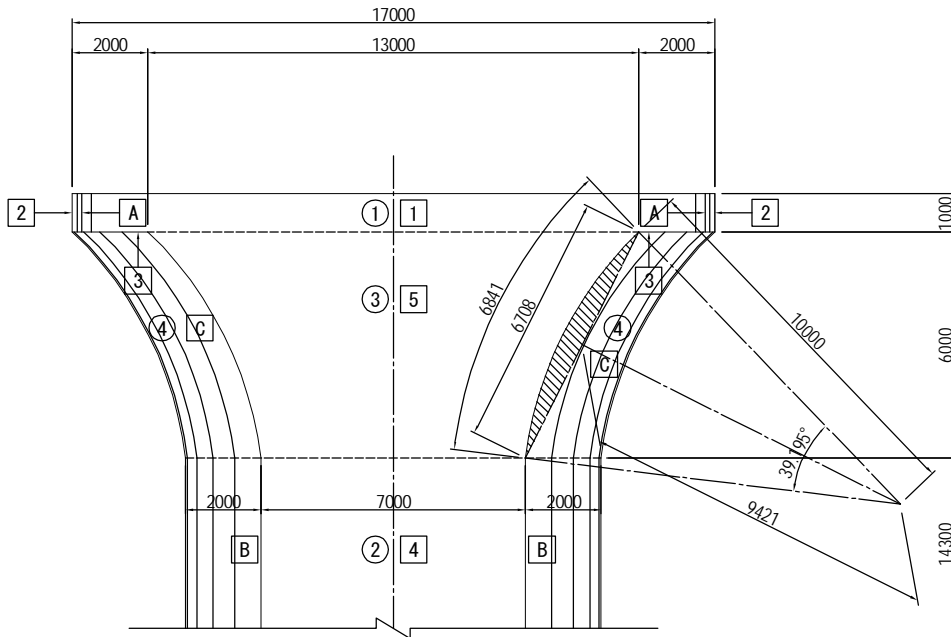
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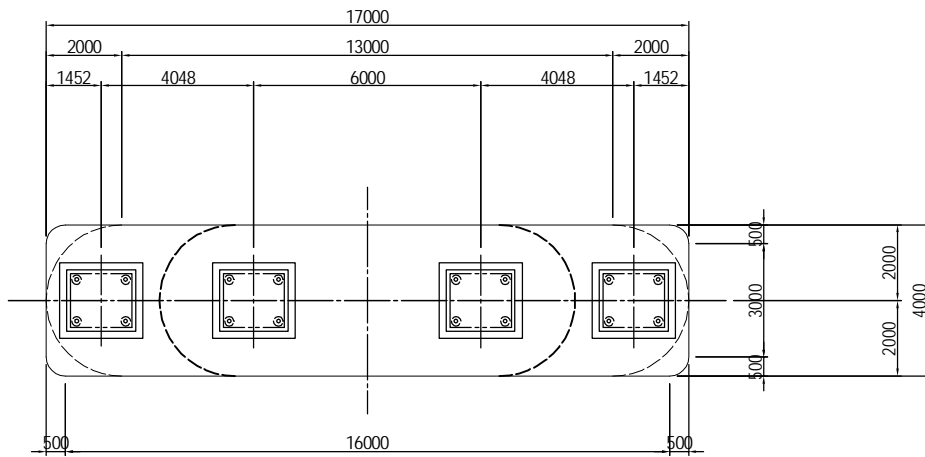
USE MATERIALS

	CONCRETE	BAR
BEAM	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD345
COLUMN	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD390 • SD345
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	SD345

SIDE ELEVATION



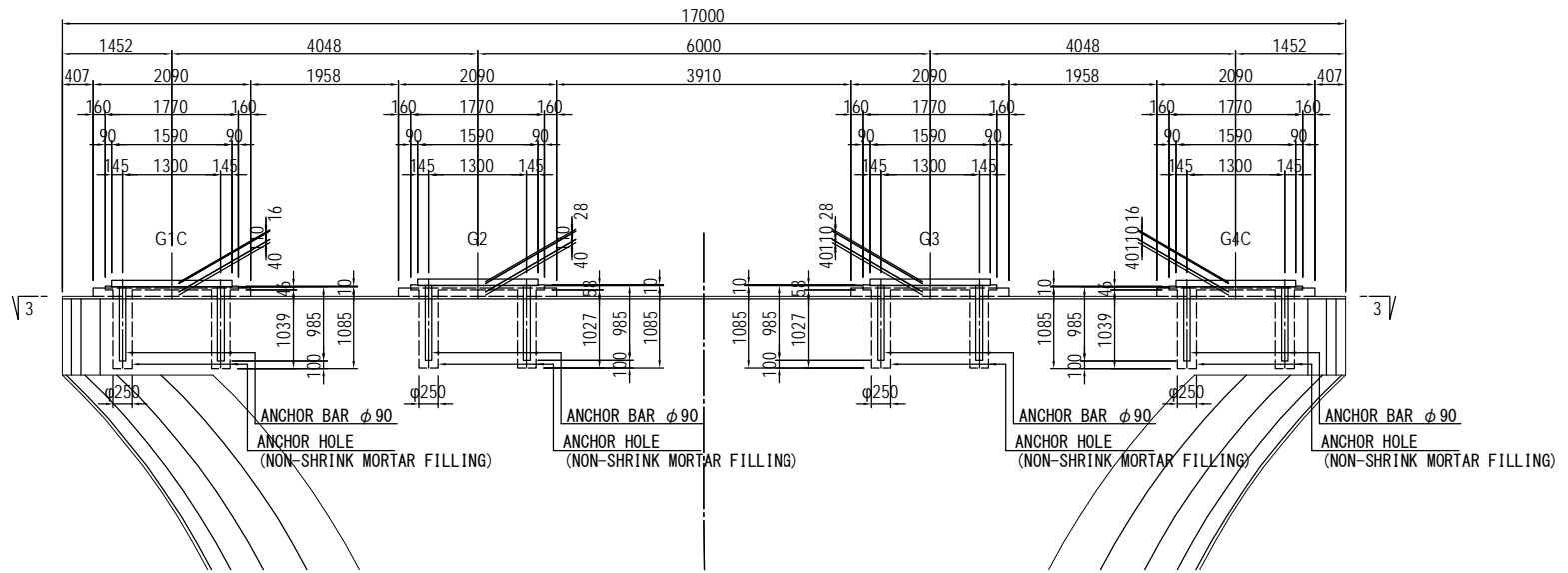
PLAN

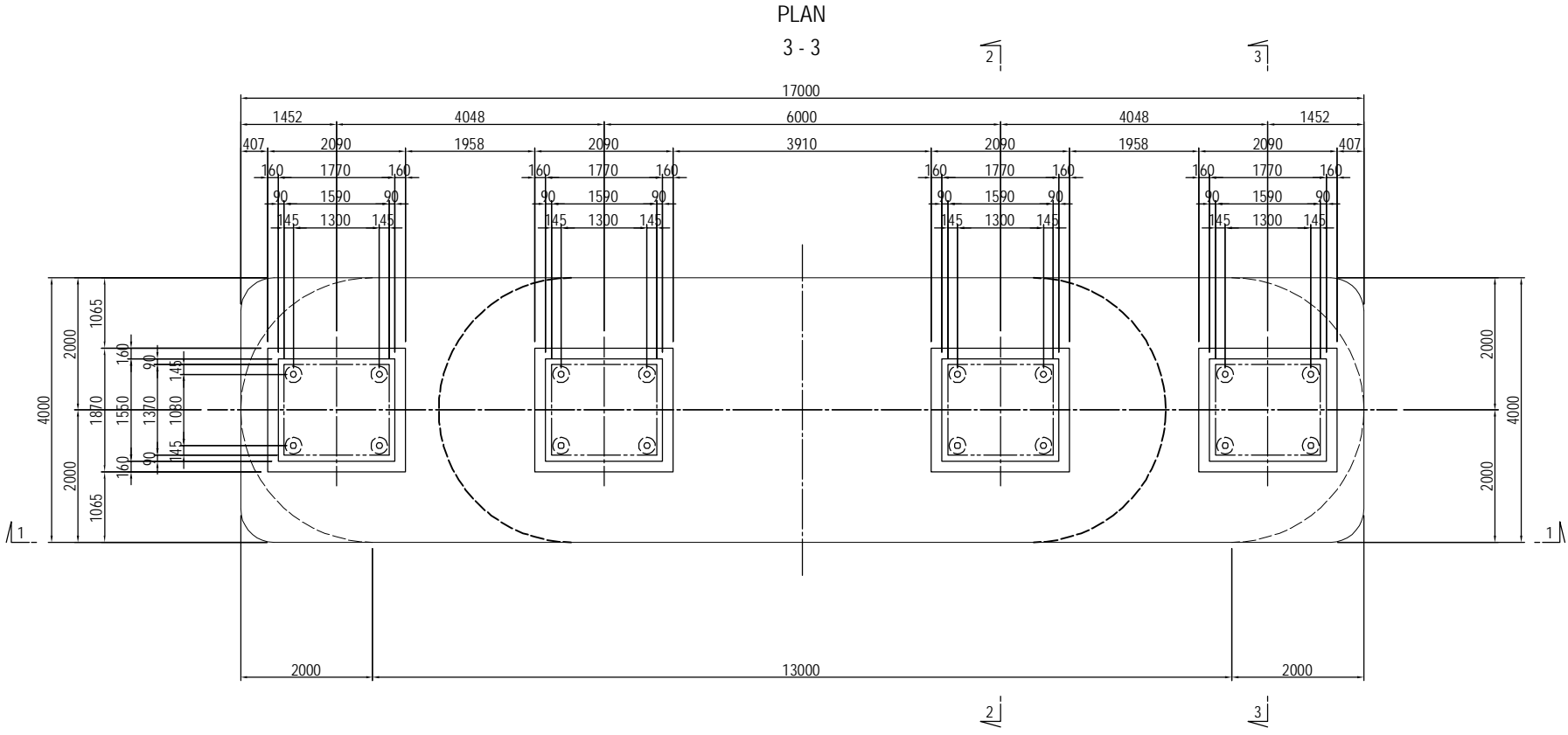


DETAIL OF BEARING AND ANCHOR

FRONT ELEVATION

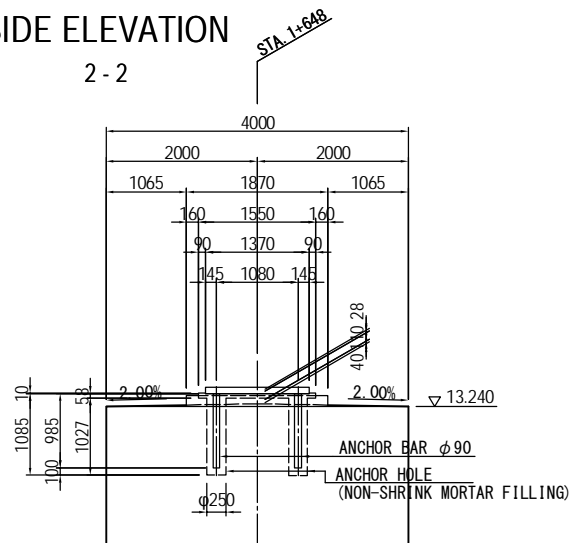
1 - 1





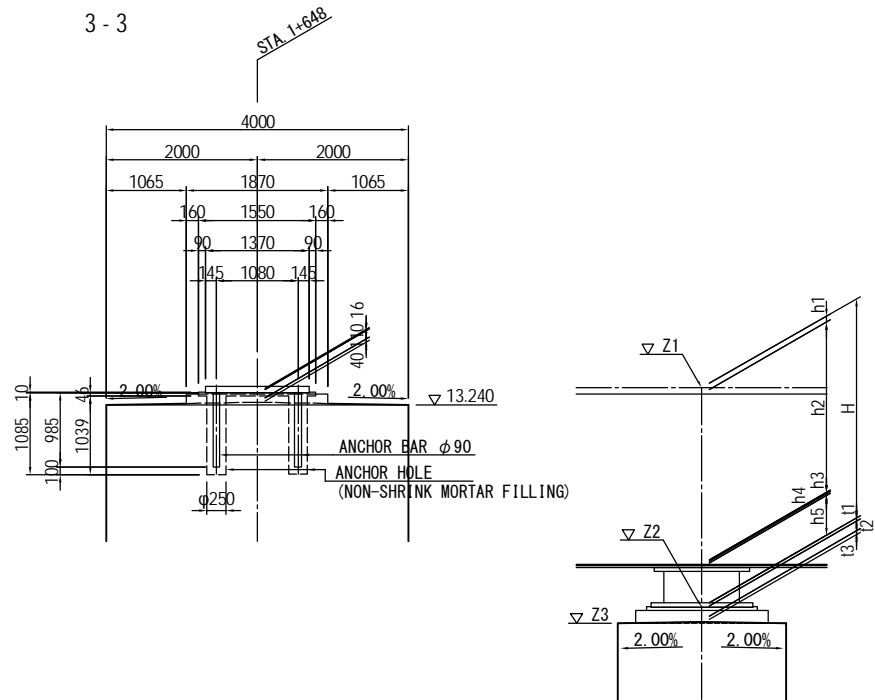
SIDE ELEVATION

2 - 2



SIDE ELEVATION

3 - 3



		P16 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	16.625	16.706	16.706	16.625
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.042	0.030	0.030	0.042
SOLE PLATE	h4	0.035	0.035	0.035	0.035
BEARING	h5	0.353	0.353	0.353	0.353
SUBTOTAL	H	3.219	3.288	3.288	3.219
ELEVATION OF BEARING BOTTOM	Z2	13.406	13.418	13.418	13.406
MORTAR	t1	0.016	0.028	0.028	0.016
BEARING BASE	t2	0.110	0.110	0.110	0.110
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	13.240	13.240	13.240	13.240

### 4.3 Concrete

(1) Pier ( $\sigma_{ck} = 30\text{N/mm}^2$ )

1) Top Beam

$$\textcircled{1} \quad 17.000 * 4.000 * 1.000 = 68.000 \text{ m}^3$$

Grade Concrete

$$1/2 * 2.000 * 0.040 * 17.000 * 2 = 1.360 \text{ ''}$$

Base Concrete

$$\text{G1} \sim \text{G4} \quad 2.090 * 1.870 * 0.110 * 4 = 1.720 \text{ ''}$$

Beam corner cut off

$$-(1.000 * 1.000 - \pi/4 * 1.000 * 1.000) * 1.000 = -0.215 \text{ ''}$$

---


$$\text{Top Beam total} = 70.865 \text{ m}^3$$

2) Beam and Pier Column

【 Cross section 】

$$\text{A} = \pi/4 * 4.000 * 4.000 + 7.000 * 4.000 = 40.566 \text{ m}^2$$

$$\textcircled{2} \quad 40.566 * 14.300 = 580.094 \text{ m}^3$$

$$\textcircled{3} \quad 1/2 * (7.000 + 13.000) * 6.000 * 4.000 = 240.000 \text{ ''}$$

$$\textcircled{4} \quad \pi/4 * 4.000 * 4.000 * 6.000 = 75.398 \text{ ''}$$

Subtraction of circular arc parts

$$-(\pi * 10.000 * 10.000 * 39.195 / 360 - 1/2 * 6.708 * 9.421) * 4.000 * 2 = -20.848 \text{ ''}$$

---


$$\text{Beam and Pier Column total} = 874.644 \text{ m}^3$$

---


$$\text{Pier total} = 945.509 \text{ m}^3$$

#### 4.4 Formwork

(1) Pier

【 Formwork Division 】 normal form

【 Structure Division 】 Reinforced Concrete Structure

【 height Division 】 [Average height ]  $H \leq 30m$

1) Top Beam

1	16.000	*	1.000	*	2		=	32.000 m2	
2	3.000	*	1.000	*	2		=	6.000 "	
3	$\left( 4.000 * 4.000 - \frac{\pi}{4} * 4.000 * 4.000 \right) - \left( 1.000 * 1.000 - \frac{\pi}{4} * 1.000 * 1.000 \right)$							=	3.219 "

Grade Concrete

$$1/2 * 2.000 * 0.040 * 2 * 2 = 0.160 "$$

Base Concrete

$$G1 \sim G4 ( 2.090 + 1.870 ) * 2 * 0.110 * 4 = 3.485 "$$

---

Top Beam total = 44.864 m2

2) Beam and Pier Column

4	7.000	*	14.300	*	2		=	200.200 m2	
5	$1/2 * ( 7.000 + 13.000 ) * 6.000 * 2$							=	120.000 "

Subtraction of circular arc parts

$$- \left( \pi * 10.000 * 10.000 * \frac{39.195}{360} - \frac{1}{2} * 6.708 * 9.421 \right) * 2 = -5.212 "$$

---

Beam and Pier Column total = 314.988 m2

---

normal form total = 359.852 m2



【 Structure Division 】 Reinforced Concrete Structure(Plywood curved panel)

1) Top Beam

<span style="border: 1px solid black; padding: 2px;">A</span>	$\pi$	*	1.000	*	1.000		=	3.142 m2
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2) Beam and Pier Column

<span style="border: 1px solid black; padding: 2px;">B</span>	$\pi$	*	4.000	*	14.300		=	179.699 m2
---	-------	---	-------	---	--------	--	---	------------

<span style="border: 1px solid black; padding: 2px;">C</span>	$\pi$	*	4.000	*	6.841		=	85.967 "
---	-------	---	-------	---	-------	--	---	----------

---

	Beam and Pier Column total	=	265.666 m2
--	----------------------------	---	------------

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	Plywood curved panel total	=	268.808 m2
--	----------------------------	---	------------

4.5 Re-bar

Work Item	Item	Specification	Division	Unit	Quantity	Remark	
Re-bar	Re-bar	SD345	D 13	kg	—		
			D16~D25	D 16	"	2,351	
				D 19	"	—	
				D 22	"	61,459	
				D 25	"	—	
				Total	"	63,810	
				D29~D32	D 29	"	—
			D 32		"	8,476	
			Total		"	8,476	
			D 35	"	—		
			D 38	"	—		
			D 51	"	—		
			Total	"	72,286		
			SD390	D 38	"	64,992	
	Mechanical splice	SD345	D 35	Point	—		
			D 38	"	—		
			D 51	"	—		
			Total	"	—		
		SD390	D 38	"	580		

#### 4.6 Bearing

##### (1) Non-shrinkage Mortar

* G1&G4	$t_1 = 26$	mm												
Bearing	1.770	*	1.550	*	0.026		=	0.0713 m3						
Box-out	1.770	*	1.550	*	0.030		=	0.0823 "						
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.039	*	4	=	0.2040 "	
Base pl	-	1.590	*	1.370	*	0.010		=	-0.0218 "					
Anchor	-1/4	*	$\pi$	*	0.090	*	0.090	*	0.985	*	4	=	-0.0251 "	
<hr/>														
v1												=	0.3107 m3	
* G2&G3	$t_2 = 38$	mm												
Bearing	1.770	*	1.550	*	0.038		=	0.1043 m3						
Box-out	1.770	*	1.550	*	0.030		=	0.0823 "						
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.027	*	4	=	0.2017 "	
Base pl	-	1.590	*	1.370	*	0.010		=	-0.0218 "					
Anchor	-1/4	*	$\pi$	*	0.090	*	0.090	*	0.985	*	4	=	-0.0251 "	
<hr/>														
v2												=	0.3414 m3	
V	=	0.3107	*	2	+	0.3414	*	2					=	<u>1.3042 m3</u>

##### (2) Form for void for Anchor Bolt

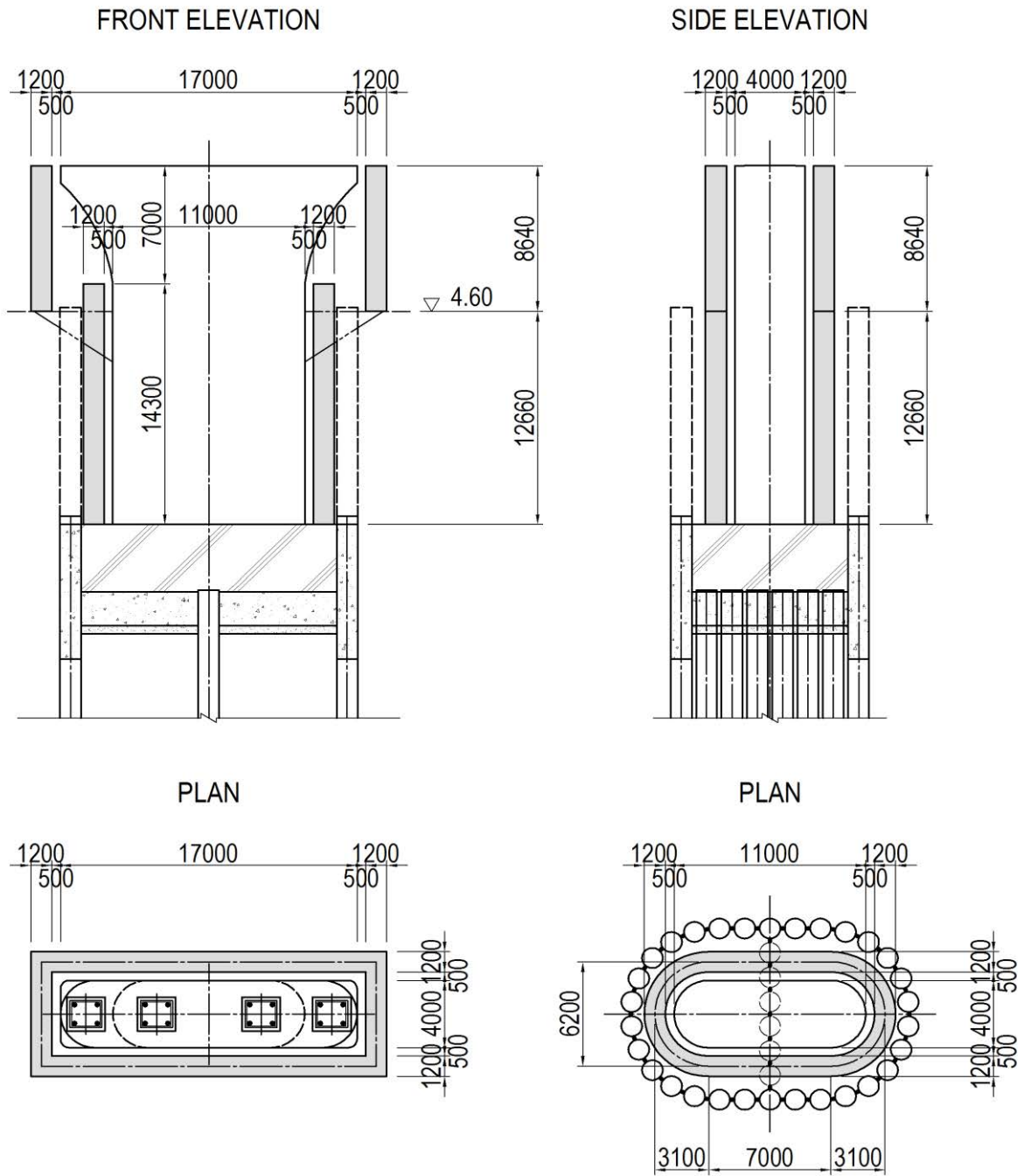
【 Cylindrical mold 】		$\phi = 250$	mm								
L1	=	1.039	*	4	*	2			=	8.312 m	
L2	=	1.027	*	4	*	2			=	8.216 "	
<hr/>											
$\Sigma L$										=	<u>16.528 m</u>

##### (3) Form for box-out

A	=	{ 2 * ( 1.770 + 1.550 ) * 0.030	+	1.770	*	1.550	} * 4	=	<u>11.771 m2</u>
---	---	---------------------------------	---	-------	---	-------	-------	---	------------------

### 4.7 Falsework

(1) Scaffolding (Hand rail precede type)



【height Division】 [Average height] ----  $H \leq 30m$

1) Beam

(Falsework height) H1 = 8.640 m

$$W = \{ 2 * ( 17.000 + 4.000 ) + 8.800 \} * 8.640 = 438.91 \text{ m}^2$$

2) Pierstud

(Falsework height) H2 = 14.300 m

$$W1 = 7.000 * 14.300 * 2 = 200.20 \text{ m}^2$$

$$W2 = \pi * 6.200 * 14.300 = 278.53 \text{ ''}$$

---

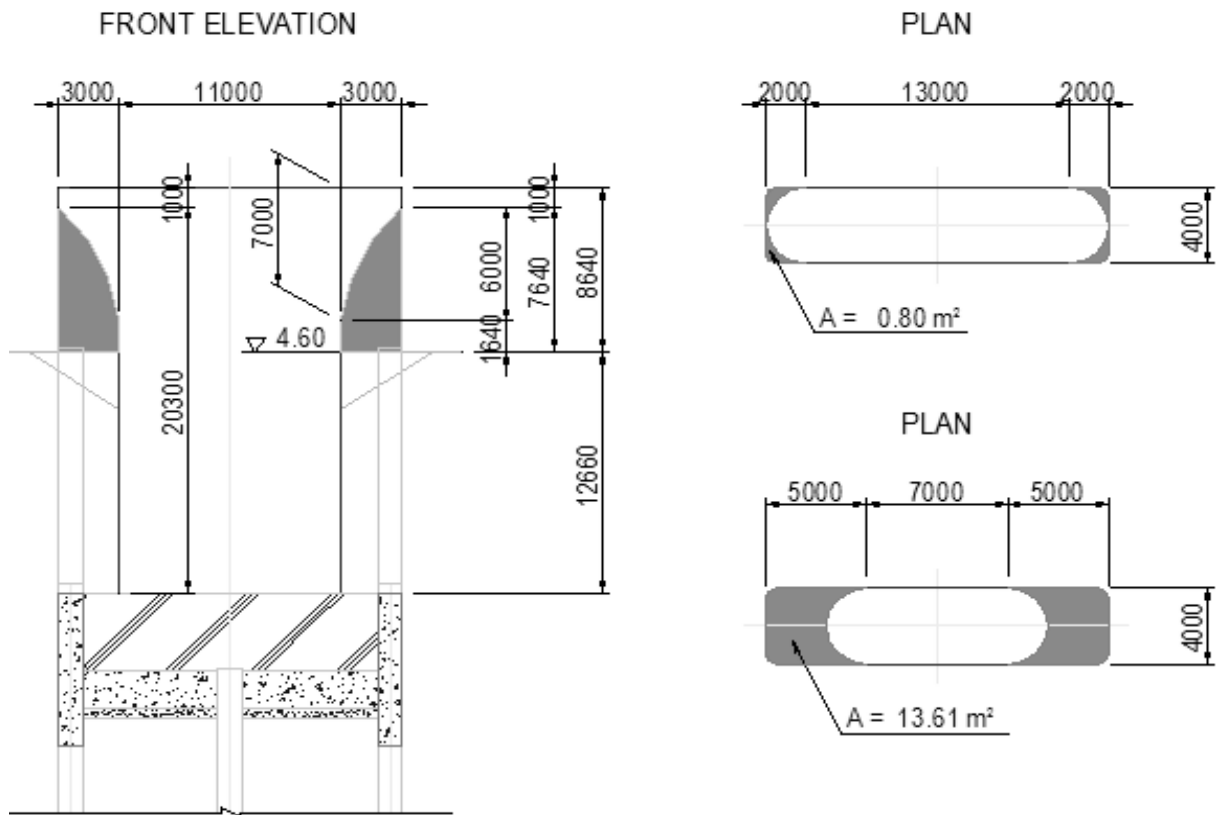

$$\text{Pierstud total} = 478.73 \text{ m}^2$$

---


$$\text{Scaffolding (Hand rail precede type) total} = 917.64 \text{ m}^2$$

## 4.8 Supporting

### (1) Support (wedge type)



【height Division】 [Average height] -----  $H \leq 30\text{m}$

[maximum height from the formation] -----  $H \leq 30\text{m}$

【Average height】

$$H = 1/2 * ( 1.640 + 7.640 ) = \underline{\underline{4.640 \text{ m}}}$$

【Support capacity】

$$\begin{aligned} \text{Average concrete } t &= 1/2 * ( 100.0 + 700.0 ) = \underline{\underline{400.0 \text{ cm}}} \\ &= 250\text{cm} < t \end{aligned}$$

$$\text{Support capacity } \omega = 80\text{kN/m}^2 < \omega$$

【Supporting area】

$$\begin{aligned} A1 &= 13.61 * 2 = 27.22 \text{ m}^2 \\ A2 &= 0.80 * 4 = 3.20 \text{ m}^2 \end{aligned}$$

【Supporting vorum】

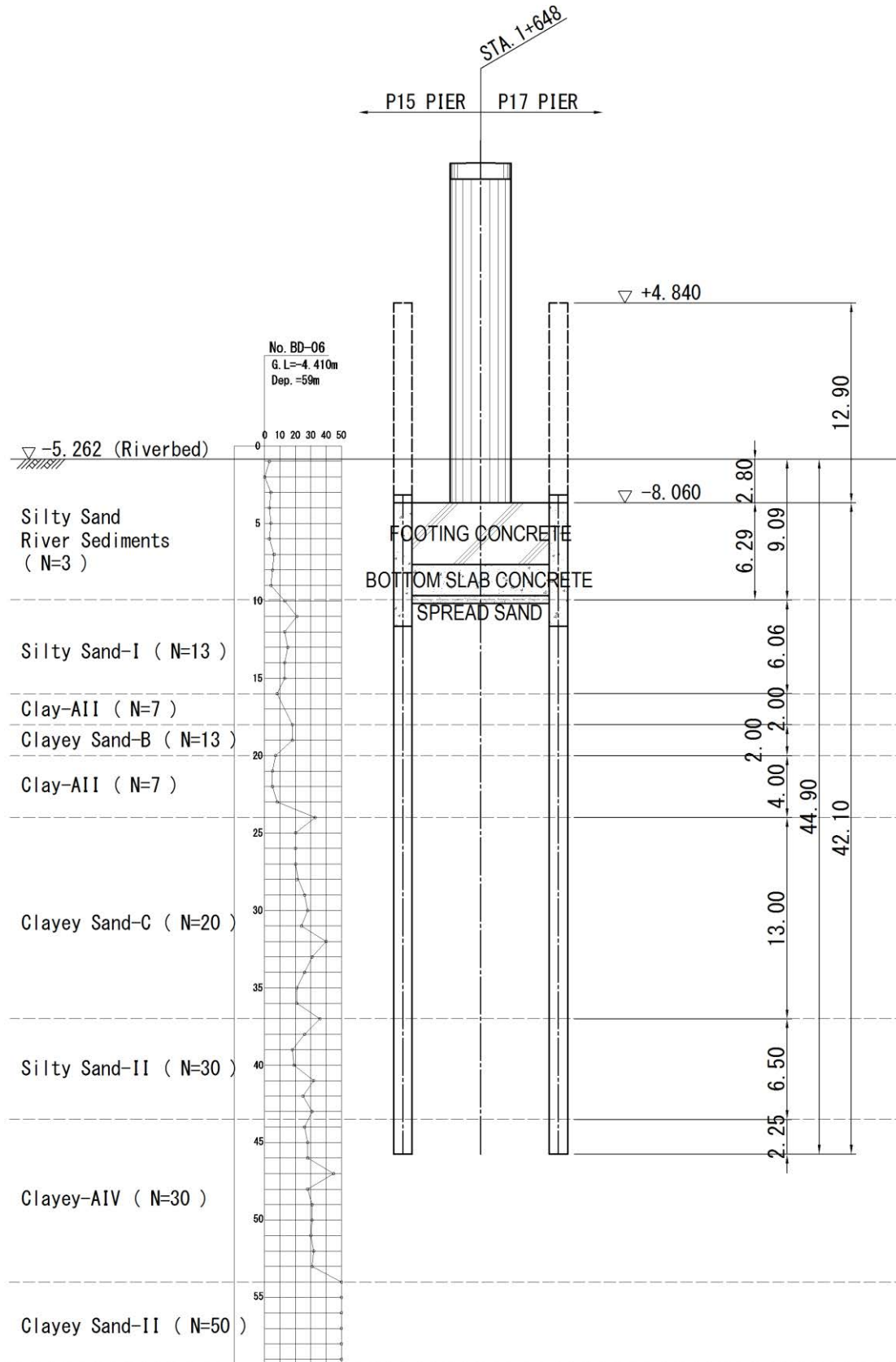
$$V1 = 27.22 * 1.640 = 44.64 \text{ m}^3$$

$$V2 = 1/2 * ( 27.22 + 3.20 ) * 6.000 = 91.26 \text{ ''}$$

---

$$\text{Supporting Total} = 135.90 \text{ m}^3$$

### 4.9 Foundation





1. ruler

Guide frame : 0.350 m (H-350 × 350 × 12 × 19)  
Weight : 135.0 kg/m

well Outside : 11.373 m (Bridge axial direction)  
well Outside : 17.164 m (Right angle direction)  
Steel pipe well : 1.200 m  
Mounting space : 0.030 m

Guide frame (Outside)

$$\begin{aligned} L1 &= ( 11.373 + 0.030 + 0.350 ) \times \pi &= & 36.923 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 &= & 11.582 \text{ m} \\ \text{Total} & &= & 48.505 \text{ m} \\ W1 &= 48.505 \times 135.0 &= & 6.548 \text{ t} \end{aligned}$$

Guide frame (Inside)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 ) \times \pi &= & 26.996 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 &= & 11.582 \text{ m} \\ \text{Total} & &= & 38.578 \text{ m} \\ W2 &= 38.578 \times 135.0 &= & 5.208 \text{ t} \end{aligned}$$

Guide frame (Diaphragm Wall)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 \times 2 ) \times 2 &= & 16.486 \text{ m} \\ W3 &= 16.486 \times 135.0 &= & 2.226 \text{ t} \end{aligned}$$

Total

$$W = W1 + W2 + W3 = 6.548 + 5.208 + 2.226 = 13.982 \text{ t}$$

Guide frame : 0.300 m (H-300 × 300 × 10 × 15)  
Weight : 93.0 kg/m  
Guide pile : 20.000 m

Guide pile

$$\begin{aligned} n1 &= 26 \text{ number} \\ W1 &= 26 \times 20.000 \times 93.0 = 48.360 \text{ t} \end{aligned}$$

2. Excavation inside

Steel pipe well : 1.200 m  
Steel pipe well area : 1.131 m<sup>2</sup>  
Steel pipe well number : 30 number (Circumference)  
Ground level : -5.262 m  
Footing Top : -8.060 m  
Footing : 4.000 m

$$\begin{aligned} \text{Excavation inside} &= 1.131 \times ( -5.262 - -8.060 + 4.000 \times 2 ) \times 30 \\ &= 366.4 \text{ m}^3 \end{aligned}$$

### 3. Concrete filling

Steel pipe well : 1.200 m  
 Steel pipe well area : 1.131 m<sup>2</sup>  
 Filled concrete : 8.000 m  
 Steel pipe well number : 30 number (Circumference)

Concrete filling = 1.131 × 8.000 × 30 = 271.4 m<sup>3</sup>

Consumption = 271.4 × ( 1 + K ) = 282.3 m<sup>3</sup>  
 (K: Correction factor = 0.04 )

### 4. Cleaning inside joint pipe

Ground level : -5.262 m  
 Steel pipe well Top : 4.840 m  
 Steel pipe well : 55.000 m  
 Steel pipe well Bottom : -50.160 m  
 Nothing inside joint pip : 1.300 m (Steel pipe well Bottom)  
 Inside joint pipe : 37 number (Circumference + Diaphragm Wall)

Cleaning inside joint pipe = ( -5.262 - -50.160 - 1.300 ) × 37 = 1613.1 m

### 5. Mortar filling inside joint pipe

Footing Top : -8.060 m  
 Steel pipe well Top : 4.840 m  
 Steel pipe well : 55.000 m  
 Steel pipe well Bottom : -50.160 m  
 Nothing inside joint pip : 1.300 m (Steel pipe well Bottom)  
 Inside joint pipe : 37 number (Circumference + Diaphragm Wall)  
 inside joint pipe area : 0.025 m<sup>2</sup> (φ 165.2\*t11)

Mortar length = ( -8.060 - -50.160 - 1.300 ) × 37 = 1509.6 m

Mortar quantity = 1509.6 × 0.025 = 37.7 m<sup>3</sup>

Consumption = 37.7 × ( 1 + K ) = 39.6 m<sup>3</sup>  
 (K: Correction factor = 0.05 )

### 6. Sealing inside joint pipe

Footing Top : -8.060 m  
 Steel pipe well Top : 4.840 m  
 Nothing inside joint pip : 0.300 m (Steel pipe well Bottom)  
 Steel pipe well Top : 30 number (Circumference)

Sealing length = ( 4.840 - -8.060 - 0.300 ) × 30 = 378.0 m

Sealing quantity = 378.0 × 0.025 = 9.5 m<sup>3</sup>

Consumption = 9.5 × ( 1 + K ) = 10.8 m<sup>3</sup>  
 (K: Correction factor = 0.14 )

Sealing bag = 378.0 × 2 = 756.0 m

## 7. Excavation inside the well

### (1) Excavation

well Outside	:	11.373 m	(Bridge axial direction)
well Outside	:	17.164 m	(Right angle direction)
Steel pipe well	:	1.200 m	
Steel pipe well area	:	1.131 m <sup>2</sup>	
Steel pipe well	:	30 number	(Circumference)
Steel pipe well	:	6 number	(Diaphragm Wall)

$$\begin{aligned} \text{Inside the well area} &= (11.373 - 1.200)^2 \times \pi/4 \\ &+ (17.164 - 11.373) \times (11.373 - 1.200) \\ &- 1.131 \times 30 / 2 \\ &= 123.2 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Diaphragm Wall area} &= 1.131 \times 6 = 6.8 \text{ m}^2 \\ &= 123.2 - 6.8 \\ &= 116.4 \end{aligned}$$

Ground level	:	-5.262 m
Footing Top	:	-8.060 m
Footing	:	4.000 m
Bottom slab	:	2.000 m
Spread sand	:	0.500 m

$$\begin{aligned} &= 123.2 \times (-5.262 - -8.060 + 4.000) \\ &+ 116.4 \times (2.000 + 0.500) \\ &= 1128.5 \text{ m}^3 \end{aligned}$$

### (2) Backfill inside the well

Pier	:	4.000 m	(Bridge axial direction)
	:	11.000 m	(Right angle direction)

$$\begin{aligned} \text{Pier area} &= (4.000)^2 \times \pi/4 + (11.000 - 4.000) \times 4.000 \\ &= 40.6 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Inside the well area} &= (11.373)^2 \times \pi/4 + (17.164 - 11.373) \times 11.373 \\ &= 167.4 \text{ m}^2 \end{aligned}$$

$$\text{Backfill} = (167.4 - 40.6) \times (-5.262 - -8.060) = 354.8 \text{ m}^3$$

### (3) Surplus soil (waste soil)

$$\text{Surplus soil} = 1128.5 - 354.8 = 773.7 \text{ m}^3$$

## 8. Footing concrete

Inside the well area	:	123.2 m <sup>2</sup>
Footing	:	4.000 m

$$\text{Footing concrete} = 123.2 \times 4.000 = 492.8 \text{ m}^3$$

### 9. Bottom slab concrete

Inside the well area	:	116.4	m <sup>2</sup>		
Bottom slab	:	2.000	m		
Bottom slab concrete	=	116.4	×	2.000	= 232.8 m <sup>3</sup>
Consumption	=	232.8	×	( 1 + K )	= 253.8 m <sup>3</sup>
(K: Correction factor	=	0.09	)		

### 10. Spread sand

Inside the well area	:	116.4	m <sup>2</sup>		
Spread sand	:	0.500	m		
Spread sand	=	116.4	×	0.500	= 58.2 m <sup>3</sup>

### 11. Welding of the dowel

Steel pipe well	:	30	number	(Circumference)	
Moment Re-bar	:	10	Stage		
Shearforce Re-bar	:	18	Stage		
Welding of the dowel	=	30	×	( 10 + 18 )	
	=	840	Stage		

### 12. Pile head

Steel pipe well	:	1.200	m			
Steel pipe well area	:	1.131	m <sup>2</sup>			
Steel pipe well	:	6	number	(Diaphragm Wall)		
Filled concrete	:	1.300	m	(Subtraction of imbedding)	: 1.200 m	
Ground level	:	-5.262	m			
Footing Bottom	:	-12.060	m			
Excavation inside	=	1.131	×	( -5.262 - -12.060 + 1.200 )	×	6
	=	54.3	m <sup>3</sup>			
Concrete filling	=	1.131	×	1.200	×	6
	=	8.1	m <sup>3</sup>			

### 13. Cut-off the pipe

Steel pipe well	:	30	number	(Circumference)		
		6	number	(Diaphragm Wall)		
Steel pipe well Top	:	4.840	m			
Cut-off Position	:	-7.560	m			
	:	-11.960	m			
Cut-off	=	4.840	-	-7.560	= 12.400 m	(Circumference)
	=	4.840	-	-11.960	= 16.800 m	(Diaphragm Wall)

14. Falsework

1st stage : 0.350 m (H-350 × 350 × 12 × 19)  
 2nd stage : 0.400 m (2H-400 × 400 × 13 × 21)  
 3rd,4th stage : 0.300 m (H-300 × 300 × 10 × 15)

Strut of the 1st stag : 2 number Pillar : 8 number  
 Strut of the 2nd stag : 4 number Pillar : 16 number  
 Strut of the 3rd stag : 2 number Pillar : 8 number  
 Strut of the 4th stag : 2 number Pillar : 8 number

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Mounting space : 0.030 m

wale(wale(guide) of the 1st stage)

1st stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 ) × π = 26.996 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 ) × 2 = 16.486 m  
 Total = 55.064 m

2nd stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 ) × π = 26.839 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 ) × 2 = 16.286 m  
 Total = 54.707 m

3rd,4th stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 ) × π = 27.153 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 ) × 2 = 16.686 m  
 Total = 55.421 m

Strut

L1= 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 = 8.243 m  
 L2= 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 = 8.143 m  
 L3= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m  
 L4= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m

Pillar Span : 1.3 m

L1= 1.300 × 1.414 = 1.838 m  
 L2= 1.300 × 1.414 = 1.838 m  
 L3= 1.300 × 1.414 = 1.838 m  
 L4= 1.300 × 1.414 = 1.838 m

15. Concrete filling to space between steel pipe well and wale

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Steel pipe well : 30 number

1st stage : 0.350 m  
 2nd stage : 0.400 m  
 3rd,4th stage : 0.300 m

$$\begin{aligned} \text{1st stage} &= 11.373^2 \times \pi/4 + (17.164 - 11.373) \times 11.373 \\ &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\ &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\ &\quad - 1.200^2 \times \pi/4 \times 30 \\ &= 18.3 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{2nd,3rd,4th stage} &= (11.373 - 1.200)^2 \times \pi/4 \\ &\quad + (17.164 - 11.373) \times (11.373 - 1.200) \\ &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\ &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\ &\quad - 1.200^2 \times \pi/4 \times 30 \quad / \quad 2 \\ &= 8.0 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{1st stage} &= 18.3 \times 0.350 \times 1 = 6.4 \text{ m}^3 \\ \text{2nd stage} &= 8.0 \times 0.400 \times 2 = 6.4 \text{ m}^3 \\ \text{3rd stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3 \\ \text{4th stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3 \end{aligned}$$

---


$$\text{Total} = 17.6 \text{ m}^3$$

$$\begin{aligned} \text{Consumption} &= 17.6 \times (1 + K) = 18.3 \text{ m}^3 \\ (\text{K: Correction factor} &= 0.04) \end{aligned}$$

$$\text{Formwork} = 18.3 \times 1 + 8.0 \times 4 = 50.3 \text{ m}^2$$

16. Quantity Tabel

(1) Steel pipe well

Type: A,D,E 14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	20.0 m	8.180	1	8.180 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	18.4 m	0.769	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: B,C,F 14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.4 m	0.727	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: G 1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	20.0 m	8.180	1	8.180 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	3	6.696 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	18.4 m	0.769	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	

Type:H 1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	3	6.696 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.4 m	0.727	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	

Type:I 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	35.0 m	14.315	1	14.315 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	20.0 m	8.180	1	8.180 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	18.4 m	0.769	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type:J 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	36.0 m	14.724	1	14.724 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.4 m	0.727	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	



Total	φ 1200	t= 14mm	( SKY400 )	503.070 t
	φ 1200	t= 14mm	( SKY490 )	110.430 t
	φ 1200	t= 16mm	( SKY400 )	224.160 t
	φ 165.2	t= 11mm	( STK400 )	165.168 t
	Reinforcement Band		( SS400 )	2.880 t
	Members for Perimeter Field Welding (Backing Ring Stopper)		( SS400 )	0.432 t
	Stopper		( SS400 )	288 piece
	Sling①		( SM490A )	0.360 t
	Sling②		( SM490A )	0.936 t
	Interlocking Toe		( SS400 )	74 piece
	Precut			74 point
	In-situ Attached Interlocking			74 point

(2) Supporting

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
Guide frame							
	H-350 × 350 × 12 × 19	48.505	1	135.0	6,548	SS400	Outside
	H-350 × 350 × 12 × 19	38.578	1	135.0	5,208	SS400	Inside
	H-350 × 350 × 12 × 19	16.486	1	135.0	2,226	SS400	Diaphragm Wall
				Total	13,982		
Guide pile							
	H-300 × 300 × 10 × 15	20.000	26	93.0	48,360	SS400	
Support Beam of Guide frame							
	[-200 × 90 × 8 × 13.5	2.530	13	30.3	997	SS400	
wale(wale(guide) of the 1st stage)							
	H-400 × 400 × 13 × 21	54.707	2	172.0	18,819	SS400	2nd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	3rd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	4th stage
strut							
	H-350 × 350 × 12 × 19	8.243	2	135.0	2,226	SS400	1st stage
	H-400 × 400 × 13 × 21	8.143	4	172.0	5,602	SS400	2nd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	3rd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	4th stage
Pillar							
	H-350 × 350 × 12 × 19	1.838	8	135.0	1,985	SS400	1st stage
	H-400 × 400 × 13 × 21	1.838	16	172.0	5,058	SS400	2nd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	3rd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	4th stage
					Main component	49,836 kg	
					Sub component (A)	10,964 kg	Main component × 0.22
					Sub component (B)	1,993 kg	Main component × 0.04

(3) Connection between steel pipe sheet pile and footing

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark
Moment Re-bar						
P1	D22	1.000	600	3.04	1,824	SD345
P2	D22	1.000	600	3.04	1,824	SD345
Shearforce Re-bar						
P3	D22	0.700	1080	3.04	2,300	SD345
P4	D22	0.700	1080	3.04	2,300	SD345
					Total	8,248 kg

(4) Pile head

Type	Specification	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
filled Re-bar							
	D29	2.530	72	5.04	918	SD345	
Tie hoop							
	D13	4.560	48	0.995	218	SD345	
Erection bar							
	D13	3.720	24	0.995	89	SD345	
					Total	1,225 kg	
Shear Connector							
	PL-32 × 16	3.597	12	4.02	174	SS400	
Stopper							
	PL-25 × 9	0.050	36	1.77	3	SS400	
					Total	177 kg	
					Total	1,402 kg	

(5) Others

Type	Item	Unit	Quantity	Remark	memo
<b>Concrete</b>					
	Concrete filling	(m <sup>3</sup> )	282.3	$\sigma_{ck}=21\text{N/mm}^2$	
	Concrete filling (Pile head)	(m <sup>3</sup> )	8.1	$\sigma_{ck}=24\text{N/mm}^2$	
	Concrete filling to space between steel pipe well and wale	(m <sup>3</sup> )	18.3	$\sigma_{ck}=18\text{N/mm}^2$	
	Formwork	(m <sup>2</sup> )	50.3		
	Footing concrete	(m <sup>3</sup> )	492.8	$\sigma_{ck}=24\text{N/mm}^2$	
	Bottom slab concrete	(m <sup>3</sup> )	253.8	$\sigma_{ck}=21\text{N/mm}^2$	
	Spread sand	(m <sup>3</sup> )	58.2		
<b>Mortar filling inside</b>					
	Mortar filling inside joint pipe	(m <sup>3</sup> )	39.6	$\sigma_{ck}=21\text{N/mm}^2$	
	Sealing inside joint pipe	(m <sup>3</sup> )	10.8	$\sigma_{ck}=0.2\text{N/mm}^2$	
	Sealing bag	(m)	756.0		
<b>Excavation</b>					
	Excavation inside the well	(m <sup>3</sup> )	1,128.5		1549.2
	Excavation inside	(m <sup>3</sup> )	366.4		
	Excavation inside (Pile head)	(m <sup>3</sup> )	54.3		
	Cleaning inside joint pipe	(m)	1,613.1		
	Backfill inside the well	(m <sup>3</sup> )	354.8		354.8
	Surplus soil (waste soil)	(m <sup>3</sup> )	773.7		1194.4

(6) Footing Re-bar

Type	Item	Specification	Division	Unit	Quantity	Remark	
Footing Re-bar	Re-bar	SD345	D 13		kg	—	
			D16~D25	D 16	"	4,498	
				D 19	"	—	
				D 22	"	3,116	
				D 25	"	—	
				Total	"	7,614	
			D29~D32	D 29	"	—	
				D 32	"	12,134	
				Total	"	12,134	
			D 35		"	—	
			D 38		"	—	
	D 51		"	31,707			
	Total		"	51,455			
	Mechanical splice	SD345	D 38		Point	—	
			D 51		"	89	
Total			"	89			

17. Road Average N-value

Soil Coefficient : 1.00

Stratum	Formation (m)	N-value	Thickness of Stratum (m)	L × N
Ground level	-5.262	-		
Silty Sand River Sediments	-14.35	3	9.09	27.27
Silty Sand- I	-20.41	13	6.06	78.78
CLAY-A II	-22.41	7	2.00	14.00
Clayey SAND-B	-24.41	13	2.00	26.00
CLAY-A II	-28.41	7	4.00	28.00
Clayey SAND-C	-41.41	20	13.00	260.00
Silty Sand- II	-47.91	30	6.50	195.00
Clayey-AIV	-50.16	30	2.25	67.50
Total		15.5	44.90	696.55

## 5. P17 PIER

### 5.1 Quantity summary table

【 P17 PIER Quantity summary table (1/5) 】

Work Item	Item		Specification	Division	Unit	Quantity	Remark
Concrete	Reinforced Concrete Structure		$\sigma_{ck}=30\text{N/mm}^2$		m <sup>3</sup>	930.2	
Formwork	Reinforced Concrete Structure		normal form	$H \leq 30\text{m}$	m <sup>2</sup>	356.2	
			Plywood curved panel		"	263.8	
Bearing	Bearing Mortar		Non-shrinkage Mortar		m <sup>3</sup>	1.340	Superstructure construction
	Form for void for Anchor Bolt		Cylindrical mold $\phi 250$		m	16.5	
	Box-out Formwork				m <sup>2</sup>	11.8	
Falsework	Scaffolding (Hand rail precede type)		Average height	$H \leq 30\text{m}$	m <sup>2</sup>	884	
				$H > 30\text{m}$	"	—	
	Total					"	884
Supporting	Support (wedge type)	maximum height from the formation	Support capacity	Under 40kN/m <sup>2</sup>	m <sup>3</sup>	—	
				40kN/m <sup>2</sup> exceed			
				Under 80kN/m <sup>2</sup>	"	—	
				80kN/m <sup>2</sup> exceed	"	125	
	Total					"	125
Re-bar	Re-bar		SD345	D 13	kg	—	
				D16 ~ D25	"	62,542	
				D29 ~ D32	"	8,476	
				D 35	"	—	
				D 38	"	—	
				D 51	"	—	
				Total	"	71,018	
			SD390	D 38	"	63,954	
	Mechanical splice		SD345	D 35	Point	—	
				D 38	"	—	
				D 51	"	—	
				Total	"	—	
						SD390	D 38

### 5.3 Concrete

(1) Pier ( $\sigma_{ck} = 30\text{N/mm}^2$ )

1) Top Beam

$$\textcircled{1} \quad 17.000 * 4.000 * 1.000 = 68.000 \text{ m}^3$$

Grade Concrete

$$1/2 * 2.000 * 0.040 * 17.000 * 2 = 1.360 \text{ ''}$$

Base Concrete

$$\text{G1} \sim \text{G4} \quad 2.090 * 1.870 * 0.170 * 4 = 2.658 \text{ ''}$$

Beam corner cut off

$$-(1.000 * 1.000 - \pi/4 * 1.000 * 1.000) * 1.000 = -0.215 \text{ ''}$$

---


$$\text{Top Beam total} = 71.803 \text{ m}^3$$

2) Beam and Pier Column

【 Cross section 】

$$\text{A} = \pi/4 * 4.000 * 4.000 + 7.000 * 4.000 = 40.566 \text{ m}^2$$

$$\textcircled{2} \quad 40.566 * 13.900 = 563.867 \text{ m}^3$$

$$\textcircled{3} \quad 1/2 * (7.000 + 13.000) * 6.000 * 4.000 = 240.000 \text{ ''}$$

$$\textcircled{4} \quad \pi/4 * 4.000 * 4.000 * 6.000 = 75.398 \text{ ''}$$

Subtraction of circular arc parts

$$-(\pi * 10.000 * 10.000 * 39.195 / 360 - 1/2 * 6.708 * 9.421) * 4.000 * 2 = -20.848 \text{ ''}$$

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$$\text{Beam and Pier Column total} = 858.417 \text{ m}^3$$

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$$\text{Pier total} = 930.220 \text{ m}^3$$

## 5.4 Formwork

### (1) Pier

【 Formwork Division 】 normal form

【 Structure Division 】 Reinforced Concrete Structure

【 height Division 】 [Average height ]  $H \leq 30m$

#### 1) Top Beam

$$\boxed{1} \quad 16.000 * 1.000 * 2 = 32.000 \text{ m}^2$$

$$\boxed{2} \quad 3.000 * 1.000 * 2 = 6.000 \text{ ''}$$

$$\boxed{3} \quad \left( 4.000 * 4.000 - \frac{\pi}{4} * 4.000 * 4.000 \right) - \left( 1.000 * 1.000 - \frac{\pi}{4} * 1.000 * 1.000 \right) = 3.219 \text{ ''}$$

#### Grade Concrete

$$1/2 * 2.000 * 0.040 * 2 * 2 = 0.160 \text{ ''}$$

#### Base Concrete

$$G1 \sim G4 \left( 2.090 + 1.870 \right) * 2 * 0.170 * 4 = 5.386 \text{ ''}$$

---


$$\text{Top Beam total} = 46.765 \text{ m}^2$$

#### 2) Beam and Pier Column

$$\boxed{4} \quad 7.000 * 13.900 * 2 = 194.600 \text{ m}^2$$

$$\boxed{5} \quad 1/2 * \left( 7.000 + 13.000 \right) * 6.000 * 2 = 120.000 \text{ ''}$$

#### Subtraction of circular arc parts

$$- \left( \pi * 10.000 * 10.000 * \frac{39.195}{360} - \frac{1}{2} * 6.708 * 9.421 \right) * 2 = -5.212 \text{ ''}$$

---


$$\text{Beam and Pier Column total} = 309.388 \text{ m}^2$$

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$$\text{normal form total} = 356.153 \text{ m}^2$$



【 Structure Division 】 Reinforced Concrete Structure(Plywood curved panel)

1) Top Beam

<span style="border: 1px solid black; padding: 2px;">A</span>	$\pi$	*	1.000	*	1.000		=	<u>3.142 m2</u>
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2) Beam and Pier Column

<span style="border: 1px solid black; padding: 2px;">B</span>	$\pi$	*	4.000	*	13.900		=	174.673 m2
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<span style="border: 1px solid black; padding: 2px;">C</span>	$\pi$	*	4.000	*	6.841		=	85.967 "
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	Beam and Pier Column total	=	260.640 m2
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	Plywood curved panel total	=	263.782 m2
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5.5 Re-bar

Work Item	Item	Specification	Division	Unit	Quantity	Remark	
Re-bar	Re-bar	SD345	D 13	kg	—		
			D16~D25	D 16	"	2,375	
				D 19	"	—	
				D 22	"	60,167	
				D 25	"	—	
				Total	"	62,542	
				D29~D32	D 29	"	—
			D 32		"	8,476	
			Total		"	8,476	
			D 35	"	—		
			D 38	"	—		
			D 51	"	—		
			Total	"	71,018		
			SD390	D 38	"	63,954	
	Mechanical splice	SD345	D 35	Point	—		
			D 38	"	—		
			D 51	"	—		
			Total	"	—		
		SD390	D 38	"	580		

【 P17 PIER Quantity summary table (2/5) 】

Work Item	Component	Division		Unit	Quantity	Remark			
Steel pipe foundation	Steel pipe well	Steel pipe length( $\phi$ 1200mm)		m/Number	55.0				
		Pile number		Number	30	Outside Steel Pipe Well			
				"	6	Diaphragm Steel Sheet Pipe Wall			
		Total		"	36				
		Pile extension		m	1,980.0				
		Embedded depth			m	43.5	Soil Coefficient=1.00		
		Number (Type A·D·E)	Steel pipe weight	$\phi$ 1200	t=14mm	t	12.270	SKY400	
					t=14mm	"	3.681	SKY490	
					t=16mm	"	7.472	SKY400	
				$\phi$ 165.2	t=11mm	"	4.464	STK400	
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
			Precut		"	2			
			Number (Type B·C·F)	Steel pipe weight	$\phi$ 1200	t=14mm	t	12.270	SKY400
						t=14mm	"	3.681	SKY490
						t=16mm	"	7.472	SKY400
		$\phi$ 165.2			t=11mm	"	4.464	STK400	
		Accessories weight		Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
		Precut			"	2			
Number (Type G)	Steel pipe weight	$\phi$ 1200		t=14mm	t	12.270	SKY400		
				t=14mm	"	3.681	SKY490		
				t=16mm	"	7.472	SKY400		
		$\phi$ 165.2	t=11mm	"	6.696	STK400			
	Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400			
		Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400			
			PL t=16mm	"	—	SS400			
			Sling	PL t=22mm	"	0.036	SM490A		
		Interlocking Toe	PL t=12mm	Piece	3	SS400			
		In-situ Attached Interlocking		Point	3	STK400			
	Precut		"	3					

【 P17 PIER Quantity summary table (3/5) 】

Work Item	Component	Division			Unit	Quantity	Remark		
Steel pipe foundation	Steel pipe well	1 number (Type H)	Steel pipe weight	φ 1200	t=14mm	t	12.270	SKY400	
					t=14mm	"	3.681	SKY490	
					t=16mm	"	7.472	SKY400	
					φ 165.2	t=11mm	"	6.696	STK400
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
				Sling	PL t=22mm	"	0.036	SM490A	
				Interlocking Toe	PL t=12mm	Piece	3	SS400	
				In-situ Attached Interlocking		Point	3	STK400	
			Precut		"	3			
			1 number (Type I)	Steel pipe weight	φ 1200	t=14mm	t	22.495	SKY400
		t=14mm				"	—	SKY490	
		φ 165.2				t=11mm	"	4.464	STK400
		Accessories weight		Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
				Sling	PL t=22mm	"	0.036	SM490A	
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
		Precut			"	2			
		1 number (Type J)		Steel pipe weight	φ 1200	t=14mm	t	22.495	SKY400
						t=14mm	"	—	SKY490
			φ 165.2			t=11mm	"	4.464	STK400
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
				Sling	PL t=22mm	"	0.036	SM490A	
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
Precut			"	2					
All number	Steel pipe weight		φ 1200	t=14mm	t	503.070	SKY400		
				t=14mm	"	110.430	SKY490		
		t=16mm		"	224.160	SKY400			
		φ 165.2	t=11mm	"	165.168	STK400			
	Accessories weight	Reinforcement Band	PL t= 9mm	t	2.880	SS400			
		Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.432	SS400			
			PL t=16mm	"	—	SS400			
		Sling	PL t=22mm	"	1.296	SM490A			
		Interlocking Toe	PL t=12mm	Piece	74	SS400			
		In-situ Attached Interlocking		Point	74	STK400			
	Precut		"	74					

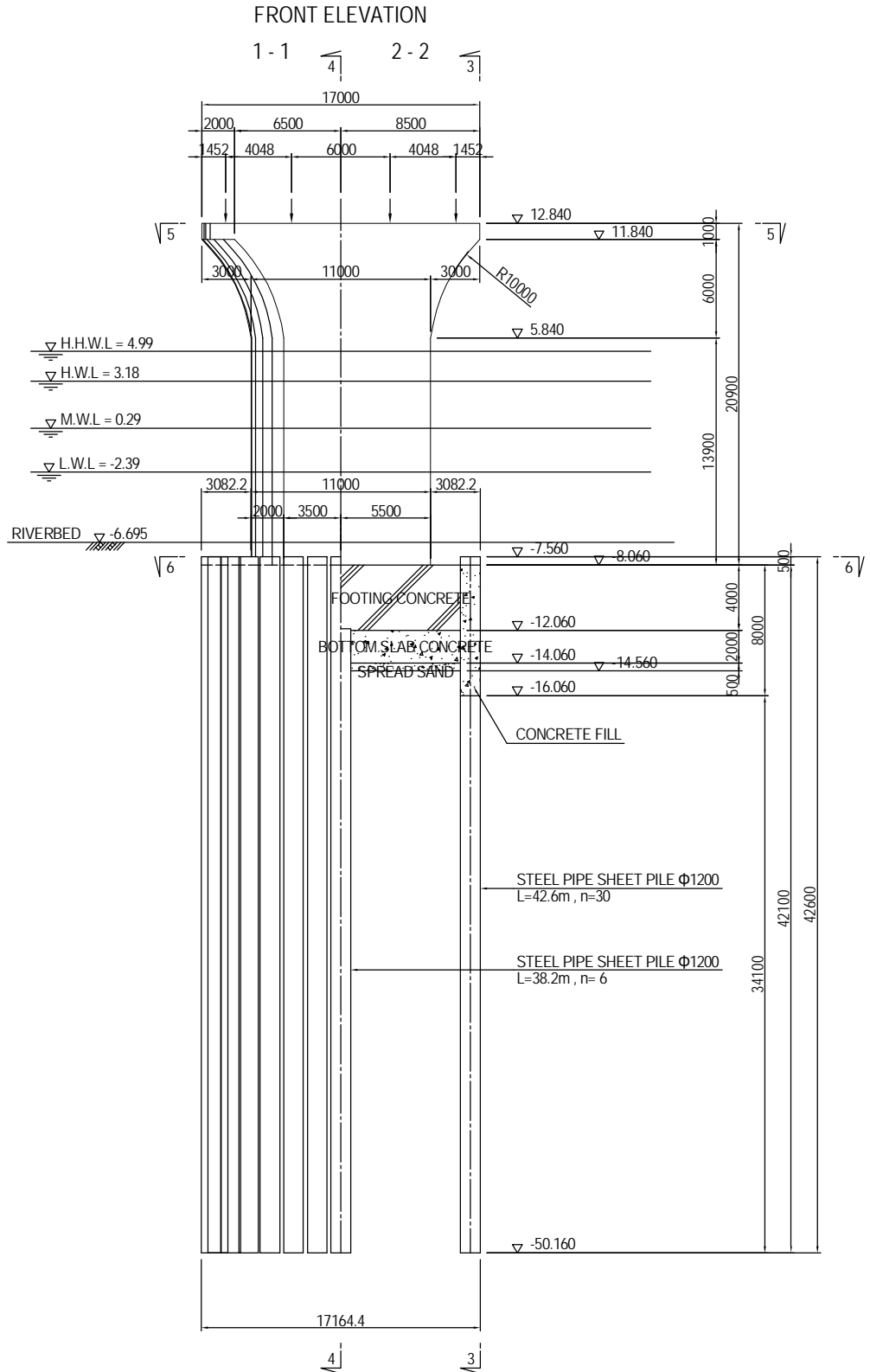
【 P17 PIER Quantity summary table (4/5) 】

Work Item	Component		Division		Unit	Quantity	Remark
Steel pipe foundation	Excavation inside			m3	317.8		
		Pile head			"	44.6	
	Concrete filling	Fill concrete	$\sigma_{ck}=21\text{N/mm}^2$		m3	282.3	Correction factor=0.04
		Pile head	$\sigma_{ck}=24\text{N/mm}^2$		"	8.1	
	Cleaning inside joint pipe			m	1,560.1		
	Mortar filling inside joint pipe	$\sigma_{ck}=21\text{N/mm}^2$	Mortar length		m	1,509.6	Mortar=2.5m <sup>3</sup> /100m
			Mortar quantity		m3	39.6	Correction factor=0.05
	Sealing inside joint pipe	$\sigma_{ck}=0.2\text{N/mm}^2$	Sealing length		m	378.0	Mortar=2.5m <sup>3</sup> /100m
			Sealing quantity		m3	10.8	Correction factor=0.14
			Sealing bag		m	756.0	Sealing 100m=200.0
	Excavation inside the well			m3	952.0		
	Backfill inside the well			m3	173.1		
	Surplus soil (waste soil)			m3	778.9		
	Footing concrete			$\sigma_{ck}=24\text{N/mm}^2$	m3	492.8	
	Bottom slab concrete			$\sigma_{ck}=21\text{N/mm}^2$	m3	253.8	Correction factor=0.09
	Spread sand				m3	58.2	
	Pile head	Shear Connector	PL-32 × 16 × 3597		kg	174	
		Stopper	PL-25 × 9 × 50		"	3	
	Pile head Re-bar	Re-bar	SD345	D 13	kg	307	
				D16 ~ D25	"	-	
				D29 ~ D32	"	918.0	
				Total	"	1,225	
	Footing Re-bar	Re-bar	SD345	D 13	kg	—	
D16 ~ D25				"	7,614		
D29 ~ D32				"	12,134		
D 35				"	—		
D 38				"	—		
D 51				"	31,707		
Total				"	51,455		
Mechanical splice		SD345	D 38	Point	—		
			D 51	"	89		
	Total		"	89			

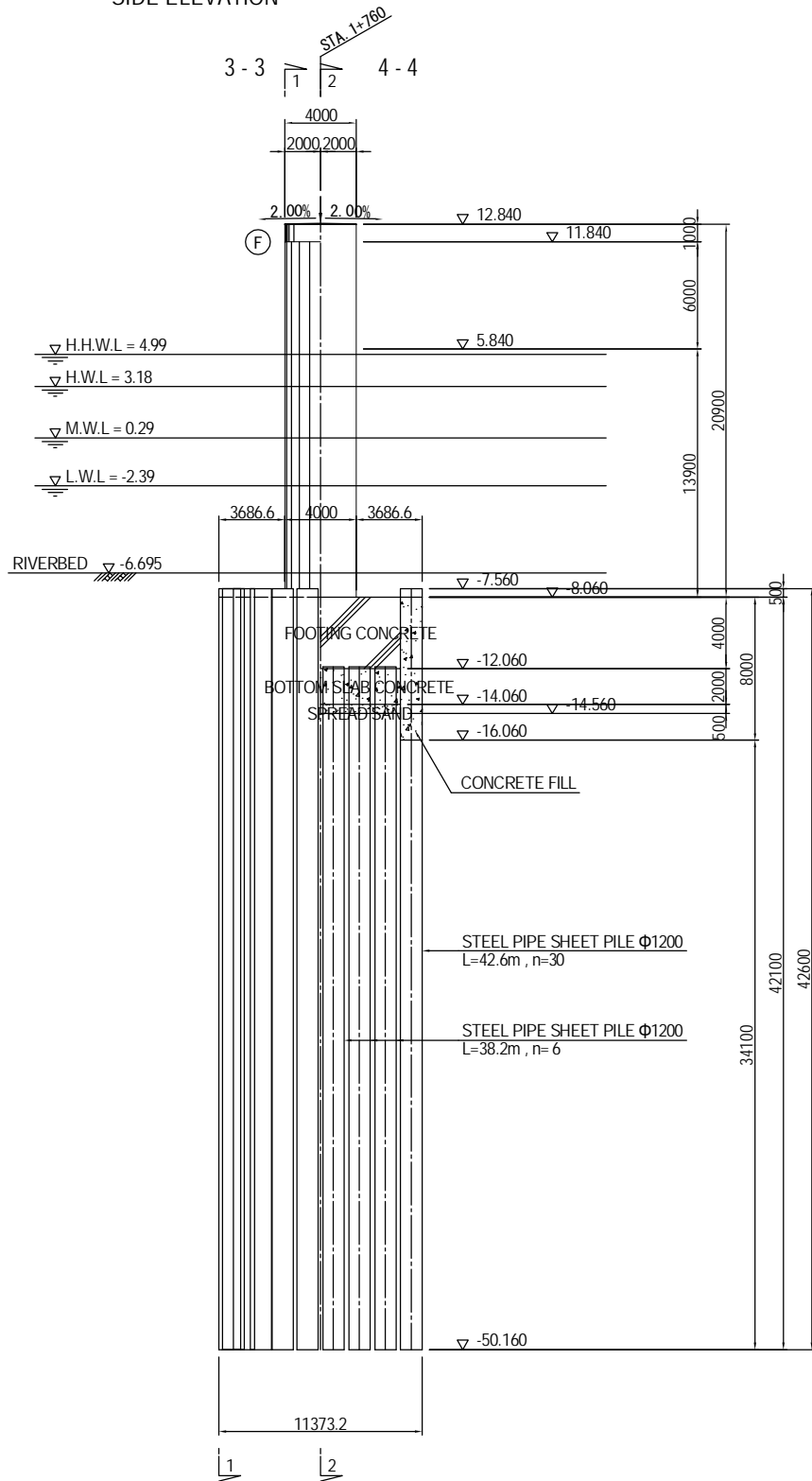
【 P17 PIER Quantity summary table (5/5) 】

Work Item	Component	Division		Unit	Quantity	Remark		
S t e e l  p i p e  f o u n d a t i o n	Falsework (guide frame, wale, strut)	Guide frame	H-350 × 350 × 12 × 19	t	14.0			
		Guide pile	H-300 × 300 × 10 × 15	"	48.4			
		Support Beam of Guide frame	[-200 × 90 × 8 × 13.5	"	1.0			
		wale	H-300 × 300 × 10 × 15	t	10.3			
			H-350 × 350 × 12 × 19	"	—			
			H-400 × 400 × 13 × 21	"	18.8			
		strut	H-300 × 300 × 10 × 15	t	3.1			
			H-350 × 350 × 12 × 19	"	2.2			
			H-400 × 400 × 13 × 21	"	5.6			
		Pillar	H-300 × 300 × 10 × 15	t	2.7			
			H-350 × 350 × 12 × 19	"	2.0			
			H-400 × 400 × 13 × 21	"	5.1			
		Main component Total				t	49.8	SS400
		Sub component A				"	11.0	22%
	Sub component B				"	2.0	4%	
	Total				"	62.8		
	Concrete filling to space between	Falsework	$\sigma_{ck}=18N/mm^2$		m3	18.3	Correction factor=0.04	
		Formwork			m2	50.3		
	Welding of the dowel	Welding of the dowel stage			Stage	840		
		Welding of the dowel Weight			kg	8,248		
	Cut-off the pipe	$\phi 1200$			Number	36		

5.2 General arrangement



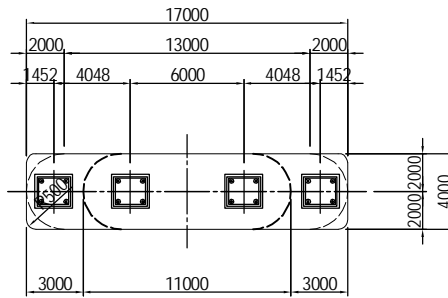
SIDE ELEVATION





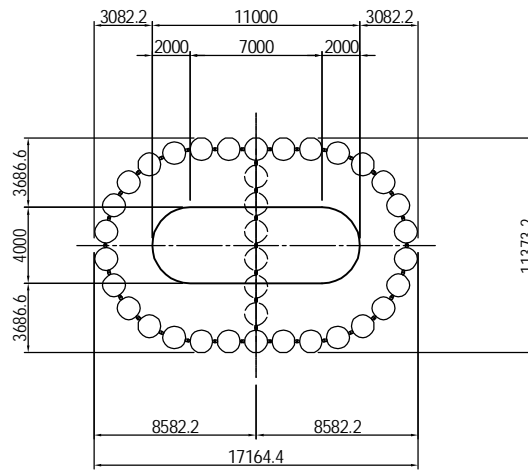
PLAN

5 - 5



PLAN

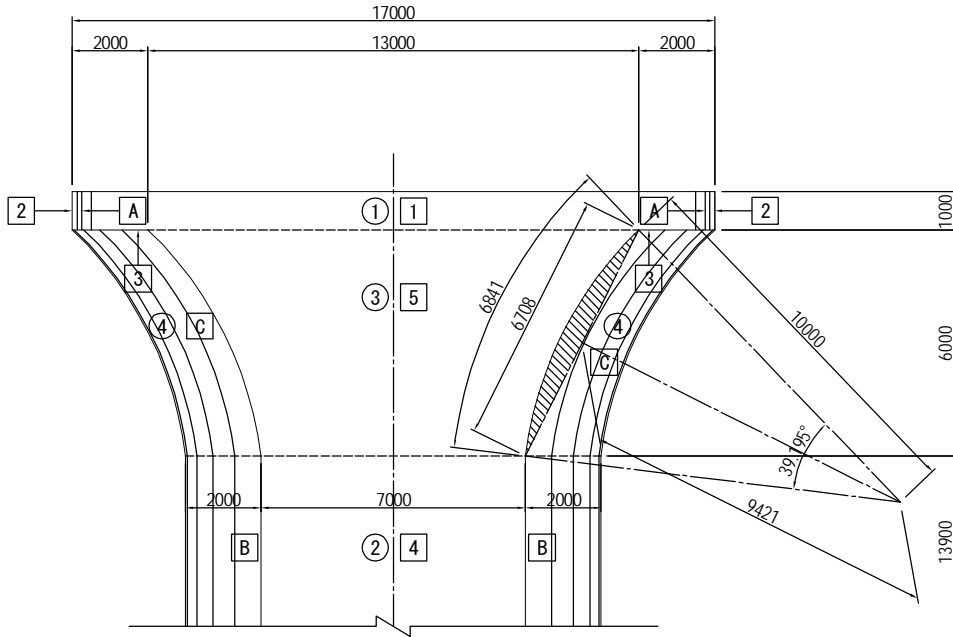
6 - 6



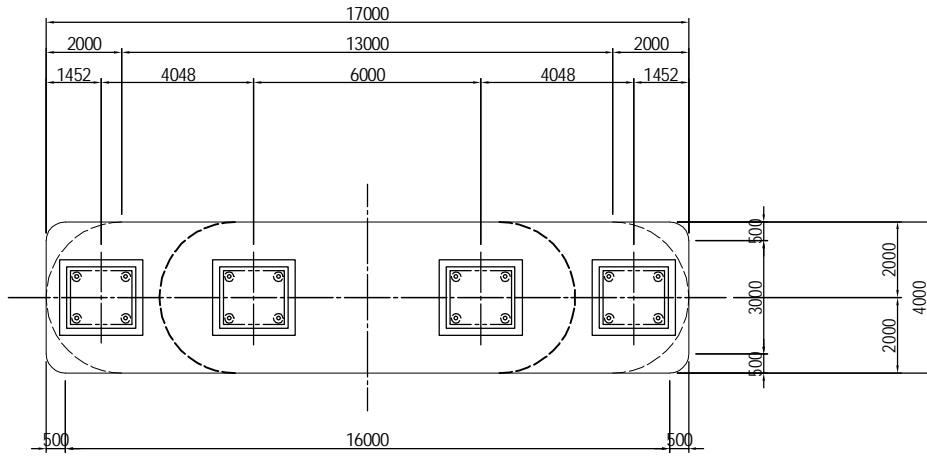
USE MATERIALS

	CONCRETE	BAR
BEAM	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD345
COLUMN	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD390 • SD345
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	SD345

SIDE ELEVATION



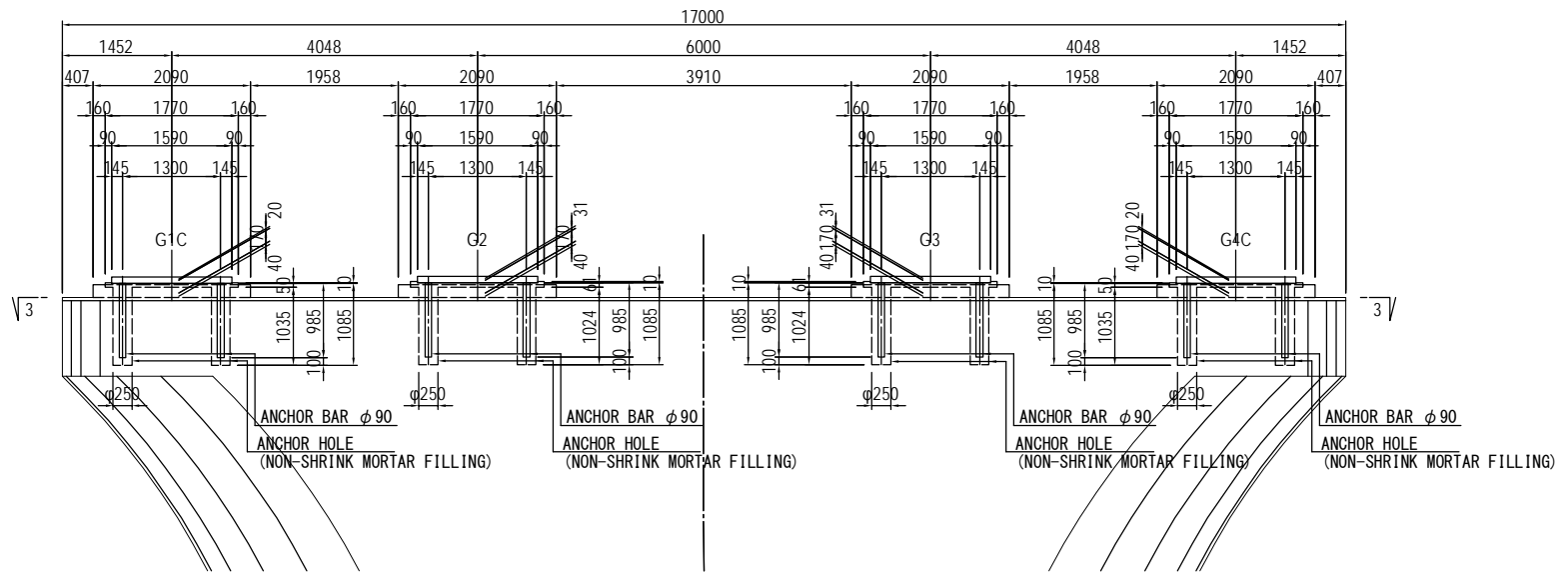
PLAN



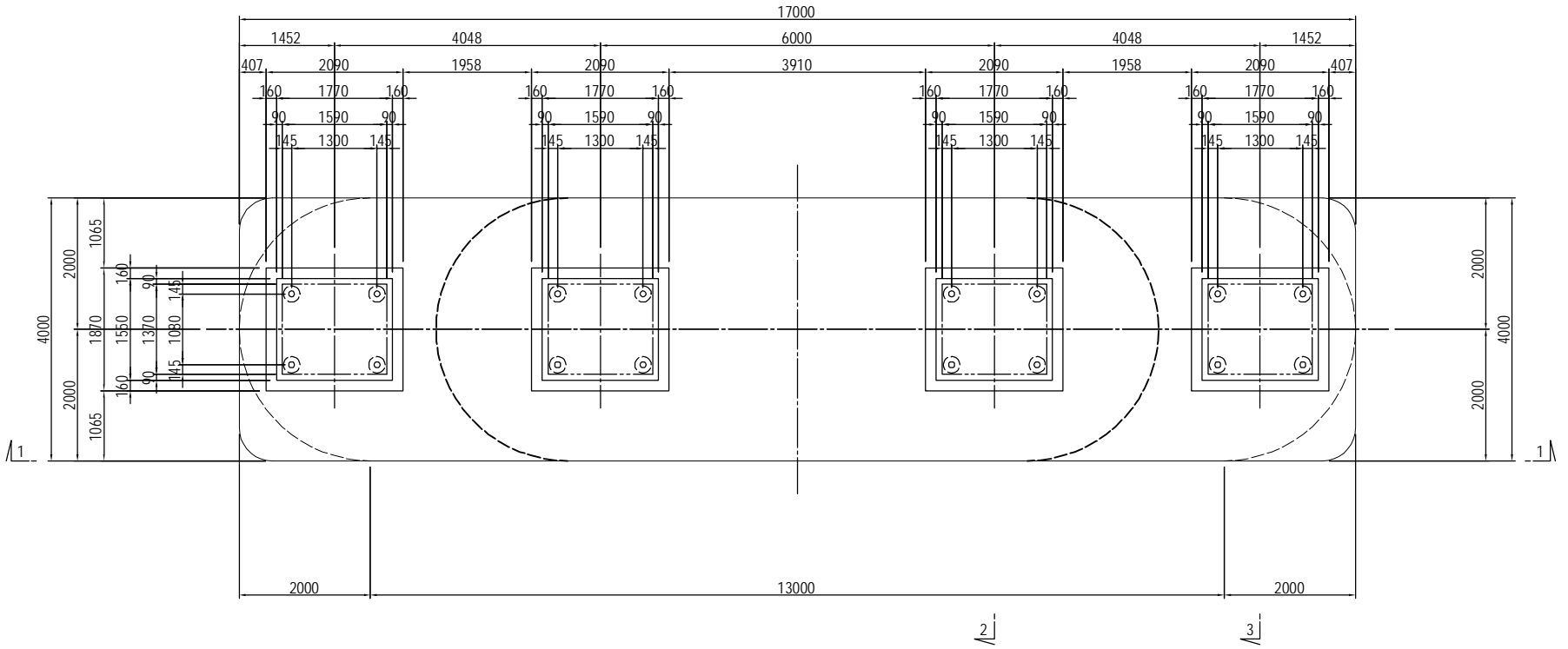
DETAIL OF BEARING AND ANCHOR

FRONT ELEVATION

1 - 1

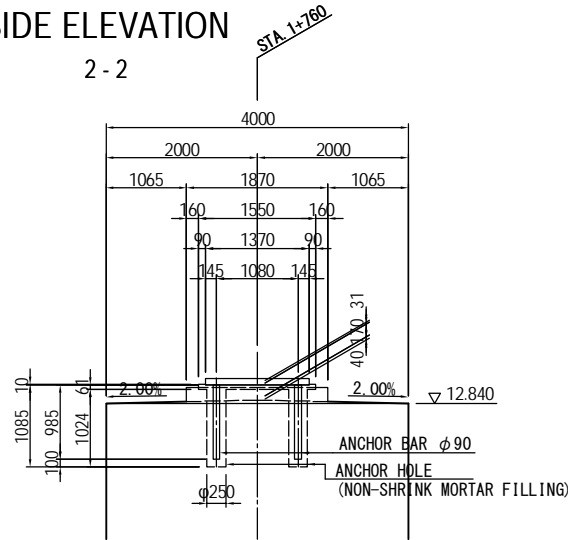


PLAN  
3 - 3



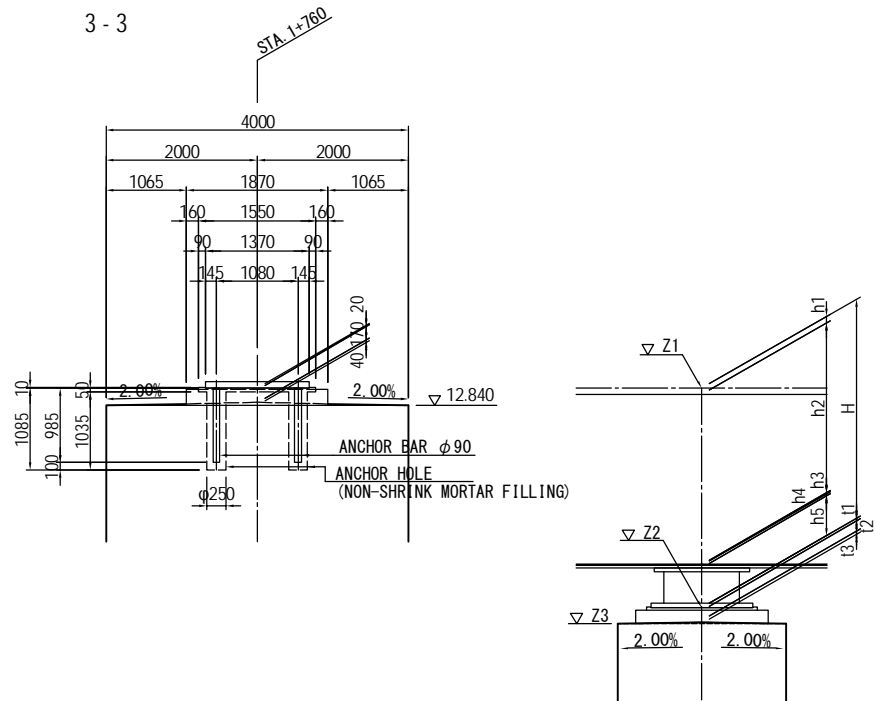
SIDE ELEVATION

2 - 2



SIDE ELEVATION

3 - 3



		P17 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	16.289	16.370	16.370	16.289
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.042	0.031	0.031	0.042
SOLE PLATE	h4	0.035	0.035	0.035	0.035
BEARING	h5	0.353	0.353	0.353	0.353
SUBTOTAL	H	3.219	3.289	3.289	3.219
ELEVATION OF BEARING BOTTOM	Z2	13.070	13.081	13.081	13.070
MORTAR	t1	0.020	0.031	0.031	0.020
BEARING BASE	t2	0.170	0.170	0.170	0.170
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	12.840	12.840	12.840	12.840

## 5.6 Bearing

### (1) Non-shrinkage Mortar

* G1&G4	t 1 = 30 mm												
Bearing	1.770	*	1.550	*	0.030		=	0.0823 m3					
Box-out	1.770	*	1.550	*	0.030		=	0.0823 "					
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.035	*	4	=	0.2032 "
Base pl	-	1.590	*	1.370	*	0.010		=	-0.0218 "				
Anchor	-1/4	*	$\pi$	*	0.090	*	0.090	*	0.985	*	4	=	-0.0251 "
<hr/>													
								v1	=	0.3209 m3			
* G2&G3	t 2 = 41 mm												
Bearing	1.770	*	1.550	*	0.041		=	0.1125 m3					
Box-out	1.770	*	1.550	*	0.030		=	0.0823 "					
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.024	*	4	=	0.2011 "
Base pl	-	1.590	*	1.370	*	0.010		=	-0.0218 "				
Anchor	-1/4	*	$\pi$	*	0.090	*	0.090	*	0.985	*	4	=	-0.0251 "
<hr/>													
								v2	=	0.3490 m3			
V	=	0.3209	*	2	+	0.3490	*	2	=	<u>1.3398 m3</u>			

### (2) Form for void for Anchor Bolt

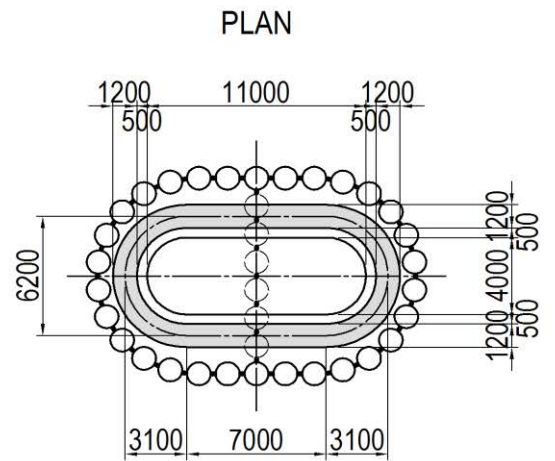
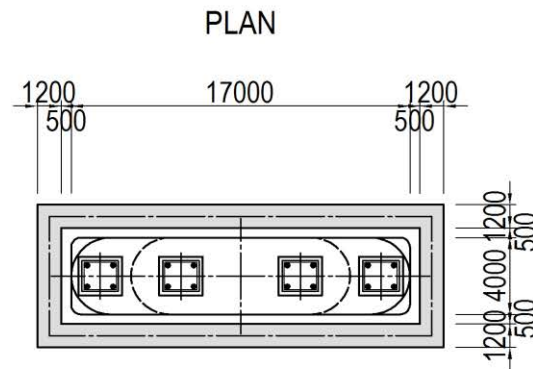
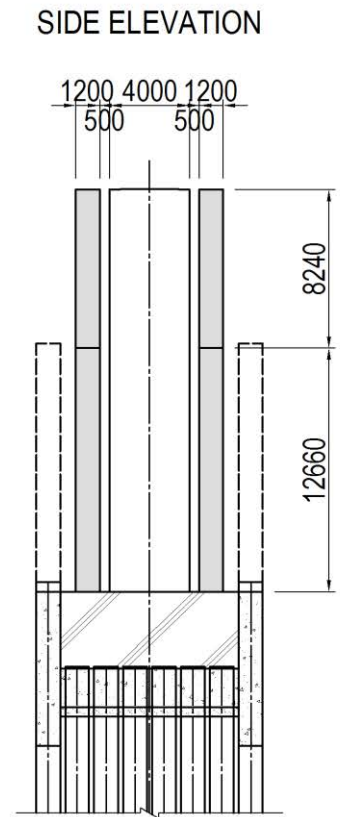
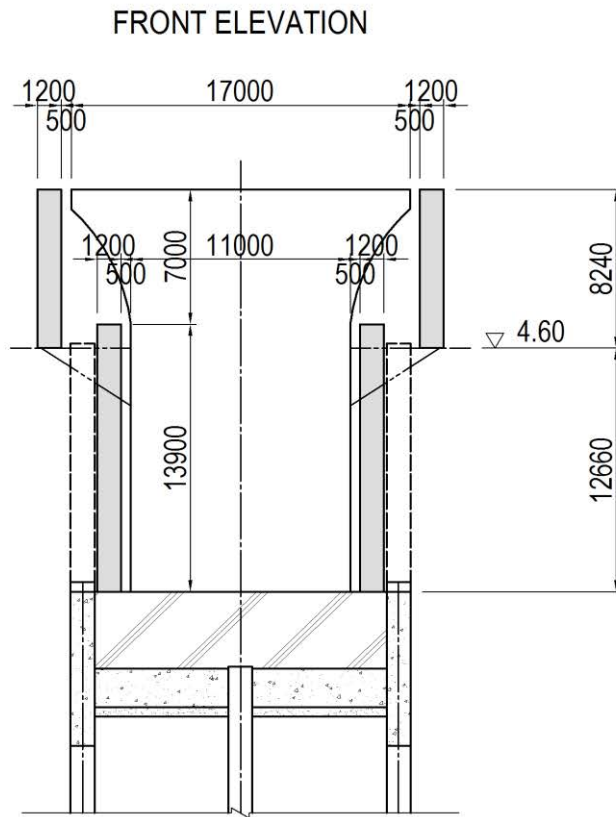
【 Cylindrical mold 】	$\phi$ = 250 mm								
L1	=	1.035	*	4	*	2	=	8.280 m	
L2	=	1.024	*	4	*	2	=	8.192 "	
<hr/>									
							$\Sigma$ L	=	<u>16.472 m</u>

### (3) Form for box-out

A	=	{ 2 * ( 1.770 + 1.550 ) * 0.030 + 1.770	*	1.550 }	*	4	=	<u>11.771 m2</u>
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### 5.7 Falsework

(1) Scaffolding (Hand rail precede type)



【height Division】 [Average height] ----  $H \leq 30m$

1) Beam

(Falsework height) H1 = 8.240 m

$$W = \{ 2 * ( 17.000 + 4.000 ) + 8.800 \} * 8.240 = 418.59 \text{ m}^2$$

2) Pierstud

(Falsework height) H2 = 13.900 m

$$W1 = 7.000 * 13.900 * 2 = 194.60 \text{ m}^2$$

$$W2 = \pi * 6.200 * 13.900 = 270.74 \text{ ''}$$

---


$$\text{Pierstud total} = 465.34 \text{ m}^2$$

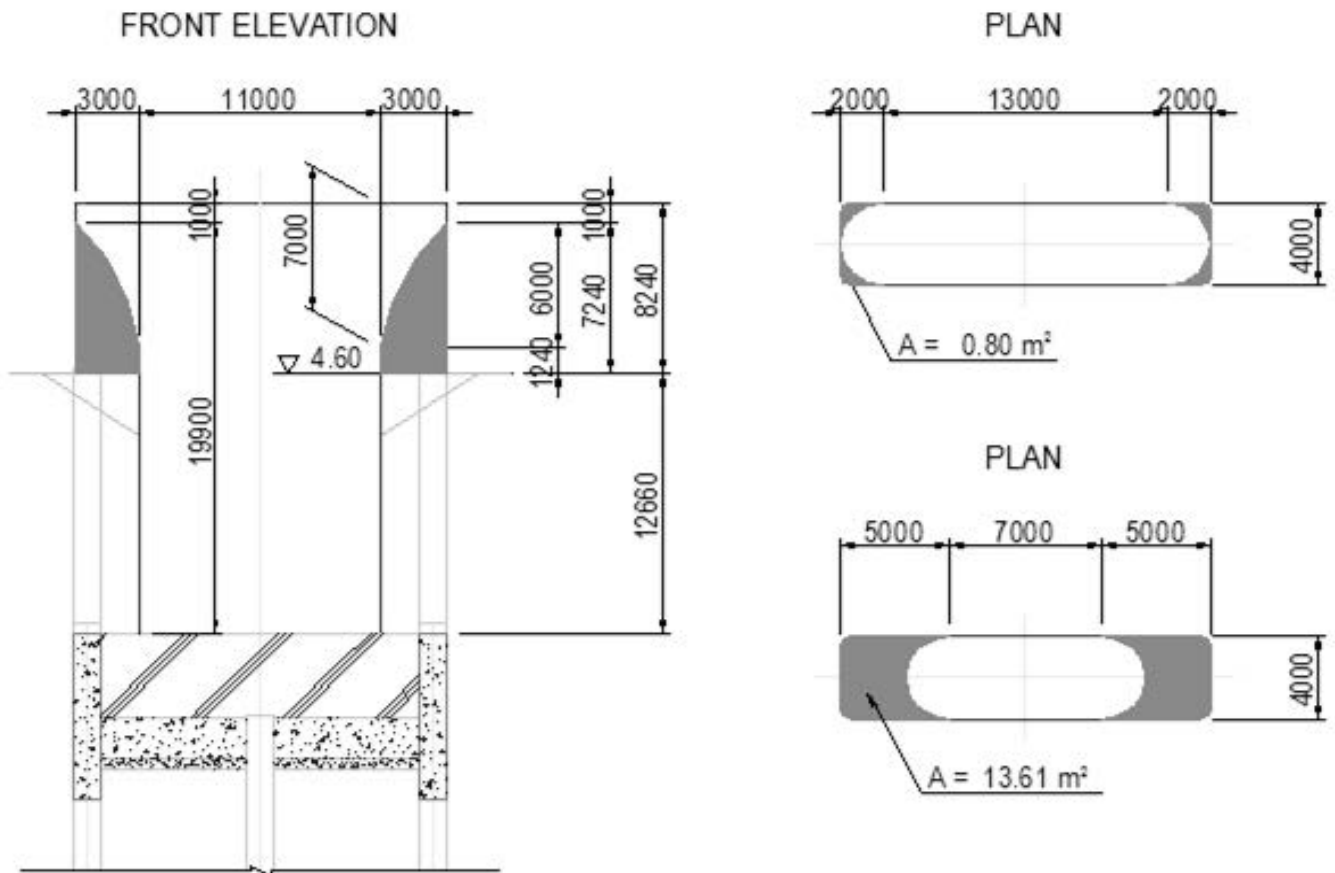
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$$\text{Scaffolding (Hand rail precede type) total} = 883.93 \text{ m}^2$$



## 5.8 Supporting

### (1) Support (wedge type)



【height Division】 [Average height] -----  $H \leq 30\text{m}$

[maximum height from the formation] -----  $H \leq 30\text{m}$

#### 【Average height】

$$H = \frac{1}{2} * ( 1.240 + 7.240 ) = \underline{\underline{4.240 \text{ m}}}$$

#### 【Support capacity】

$$\begin{aligned} \text{Average concrete } t &= \frac{1}{2} * ( 100.0 + 700.0 ) = \underline{\underline{400.0 \text{ cm}}} \\ &= 250\text{cm} < t \end{aligned}$$

$$\text{Support capacity } \omega = 80\text{kN/m}^2 < \omega$$

#### 【Supporting area】

$$\begin{aligned} A1 &= 13.61 * 2 = 27.22 \text{ m}^2 \\ A2 &= 0.80 * 4 = 3.20 \text{ m}^2 \end{aligned}$$

【Supporting vorum】

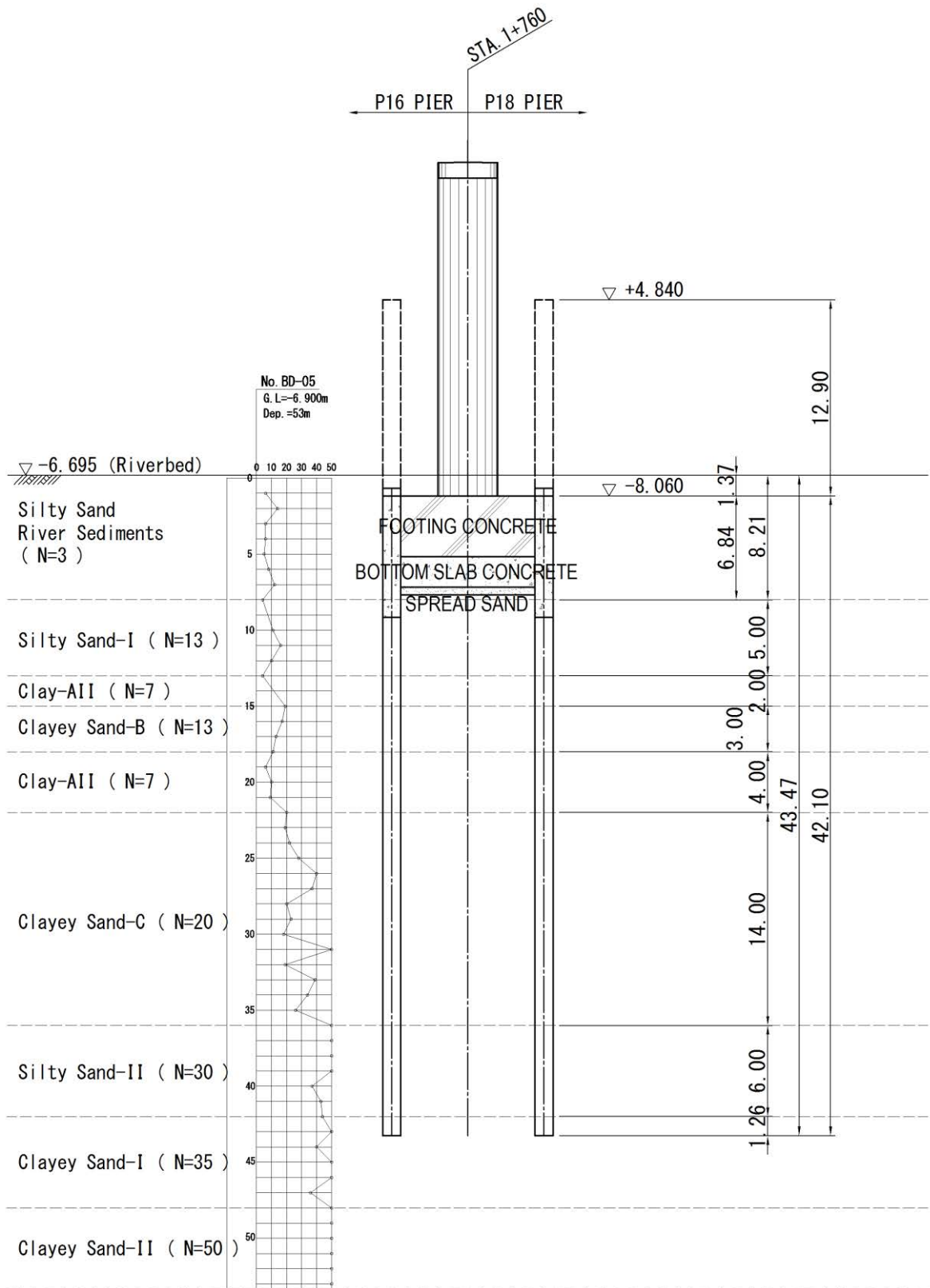
$$V1 = 27.22 * 1.240 = 33.75 \text{ m}^3$$

$$V2 = 1/2 * ( 27.22 + 3.20 ) * 6.000 = 91.26 \text{ ''}$$

---

$$\text{Supporting Total} = 125.01 \text{ m}^3$$

### 5.9 Foundation



1. ruler

Guide frame : 0.350 m (H-350 × 350 × 12 × 19)  
Weight : 135.0 kg/m

well Outside : 11.373 m (Bridge axial direction)  
well Outside : 17.164 m (Right angle direction)  
Steel pipe well : 1.200 m  
Mounting space : 0.030 m

Guide frame(Outside)

$$\begin{aligned} L1 &= ( 11.373 + 0.030 + 0.350 ) \times \pi &= & 36.923 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 &= & 11.582 \text{ m} \\ \text{Total} & &= & 48.505 \text{ m} \\ W1 &= 48.505 \times 135.0 &= & 6.548 \text{ t} \end{aligned}$$

Guide frame(Inside)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 ) \times \pi &= & 26.996 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 &= & 11.582 \text{ m} \\ \text{Total} & &= & 38.578 \text{ m} \\ W2 &= 38.578 \times 135.0 &= & 5.208 \text{ t} \end{aligned}$$

Guide frame(Diaphragm Wall)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 \times 2 ) \times 2 &= & 16.486 \text{ m} \\ W3 &= 16.486 \times 135.0 &= & 2.226 \text{ t} \end{aligned}$$

Total

$$W = W1 + W2 + W3 = 6.548 + 5.208 + 2.226 = 13.982 \text{ t}$$

Guide frame : 0.300 m (H-300 × 300 × 10 × 15)  
Weight : 93.0 kg/m  
Guide pile : 20.000 m

Guide pile

$$\begin{aligned} n1 &= 26 \text{ number} \\ W1 &= 26 \times 20.000 \times 93.0 = 48.360 \text{ t} \end{aligned}$$

2. Excavation inside

Steel pipe well : 1.200 m  
Steel pipe well area : 1.131 m<sup>2</sup>  
Steel pipe well number : 30 number (Circumference)  
Ground level : -6.695 m  
Footing Top : -8.060 m  
Footing : 4.000 m

$$\begin{aligned} \text{Excavation inside} &= 1.131 \times ( -6.695 - -8.060 + 4.000 \times 2 ) \times 30 \\ &= 317.8 \text{ m}^3 \end{aligned}$$

### 3. Concrete filling

Steel pipe well	:	1.200	m						
Steel pipe well area	:	1.131	m <sup>2</sup>						
Filled concrete	:	8.000	m						
Steel pipe well number	:	30	number	(Circumference)					
Concrete filling	=	1.131	×	8.000	×	30	=	271.4	m <sup>3</sup>
Consumption	=	271.4	×	( 1 + K )	=	282.3	m <sup>3</sup>		
(K: Correction factor	=	0.04	)						

### 4. Cleaning inside joint pipe

Ground level	:	-6.695	m				
Steel pipe well Top	:	4.840	m				
Steel pipe well	:	55.000	m				
Steel pipe well Bottom	:	-50.160	m				
Nothing inside joint pip	:	1.300	m	(Steel pipe well Bottom)			
Inside joint pipe	:	37	number	(Circumference + Diaphragm Wall)			
Cleaning inside joint pipe	=	( -6.695 - -50.160 - 1.300 )	×	37	=	1560.1	m

### 5. Mortar filling inside joint pipe

Footing Top	:	-8.060	m				
Steel pipe well Top	:	4.840	m				
Steel pipe well	:	55.000	m				
Steel pipe well Bottom	:	-50.160	m				
Nothing inside joint pip	:	1.300	m	(Steel pipe well Bottom)			
Inside joint pipe	:	37	number	(Circumference + Diaphragm Wall)			
inside joint pipe area	:	0.025	m <sup>2</sup>	( $\phi$ 165.2*t11)			
Mortar length	=	( -8.060 - -50.160 - 1.300 )	×	37	=	1509.6	m
Mortar quantity	=	1509.6	×	0.025	=	37.7	m <sup>3</sup>
Consumption	=	37.7	×	( 1 + K )	=	39.6	m <sup>3</sup>
(K: Correction factor	=	0.05	)				

### 6. Sealing inside joint pipe

Footing Top	:	-8.060	m				
Steel pipe well Top	:	4.840	m				
Nothing inside joint pip	:	0.300	m	(Steel pipe well Bottom)			
Steel pipe well Top	:	30	number	(Circumference)			
Sealing length	=	( 4.840 - -8.060 - 0.300 )	×	30	=	378.0	m
Sealing quantity	=	378.0	×	0.025	=	9.5	m <sup>3</sup>
Consumption	=	9.5	×	( 1 + K )	=	10.8	m <sup>3</sup>
(K: Correction factor	=	0.14	)				
Sealing bag	=	378.0	×	2	=	756.0	m

## 7. Excavation inside the well

### (1) Excavation

well Outside	:	11.373 m	(Bridge axial direction)
well Outside	:	17.164 m	(Right angle direction)
Steel pipe well	:	1.200 m	
Steel pipe well area	:	1.131 m <sup>2</sup>	
Steel pipe well	:	30 number	(Circumference)
Steel pipe well	:	6 number	(Diaphragm Wall)

$$\begin{aligned} \text{Inside the well area} &= (11.373 - 1.200)^2 \times \frac{\pi}{4} \\ &+ (17.164 - 11.373) \times (11.373 - 1.200) \\ &- 1.131 \times 30 \div 2 \\ &= 123.2 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Diaphragm Wall area} &= 1.131 \times 6 = 6.8 \text{ m}^2 \\ &= 123.2 - 6.8 \\ &= 116.4 \end{aligned}$$

Ground level	:	-6.695 m
Footing Top	:	-8.060 m
Footing	:	4.000 m
Bottom slab	:	2.000 m
Spread sand	:	0.500 m

$$\begin{aligned} &= 123.2 \times (-6.695 - -8.060 + 4.000) \\ &+ 116.4 \times (2.000 + 0.500) \\ &= 952.0 \text{ m}^3 \end{aligned}$$

### (2) Backfill inside the well

Pier	:	4.000 m	(Bridge axial direction)
	:	11.000 m	(Right angle direction)

$$\begin{aligned} \text{Pier area} &= (4.000)^2 \times \frac{\pi}{4} + (11.000 - 4.000) \times 4.000 \\ &= 40.6 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Inside the well area} &= (11.373)^2 \times \frac{\pi}{4} + (17.164 - 11.373) \times 11.373 \\ &= 167.4 \text{ m}^2 \end{aligned}$$

$$\text{Backfill} = (167.4 - 40.6) \times (-6.695 - -8.060) = 173.1 \text{ m}^3$$

### (3) Surplus soil (waste soil)

$$\text{Surplus soil} = 952.0 - 173.1 = 778.9 \text{ m}^3$$

## 8. Footing concrete

Inside the well area	:	123.2 m <sup>2</sup>
Footing	:	4.000 m

$$\text{Footing concrete} = 123.2 \times 4.000 = 492.8 \text{ m}^3$$

### 9. Bottom slab concrete

Inside the well area	:	116.4	m <sup>2</sup>		
Bottom slab	:	2.000	m		
Bottom slab concrete	=	116.4	×	2.000	= 232.8 m <sup>3</sup>
Consumption	=	232.8	×	( 1 + K )	= 253.8 m <sup>3</sup>
(K: Correction factor	=	0.09	)		

### 10. Spread sand

Inside the well area	:	116.4	m <sup>2</sup>		
Spread sand	:	0.500	m		
Spread sand	=	116.4	×	0.500	= 58.2 m <sup>3</sup>

### 11. Welding of the dowel

Steel pipe well	:	30	number	(Circumference)	
Moment Re-bar	:	10	Stage		
Shearforce Re-bar	:	18	Stage		
Welding of the dowel	=	30	×	( 10 + 18 )	
	=	840	Stage		

### 12. Pile head

Steel pipe well	:	1.200	m			
Steel pipe well area	:	1.131	m <sup>2</sup>			
Steel pipe well	:	6	number	(Diaphragm Wall)		
Filled concrete	:	1.300	m	(Subtraction of imbedding)	: 1.200 m	
Ground level	:	-6.695	m			
Footing Bottom	:	-12.060	m			
Excavation inside	=	1.131	×	( -6.695 - -12.060 + 1.200 )	×	6
	=	44.6	m <sup>3</sup>			
Concrete filling	=	1.131	×	1.200	×	6
	=	8.1	m <sup>3</sup>			

### 13. Cut-off the pipe

Steel pipe well	:	30	number	(Circumference)		
		6	number	(Diaphragm Wall)		
Steel pipe well Top	:	4.840	m			
Cut-off Position	:	-7.560	m			
	:	-11.960	m			
Cut-off	=	4.840	-	-7.560	= 12.400 m	(Circumference)
	=	4.840	-	-11.960	= 16.800 m	(Diaphragm Wall)

14. Falsework

1st stage : 0.350 m (H-350 × 350 × 12 × 19)  
 2nd stage : 0.400 m (2H-400 × 400 × 13 × 21)  
 3rd,4th stage : 0.300 m (H-300 × 300 × 10 × 15)

Strut of the 1st stag : 2 number Pillar : 8 number  
 Strut of the 2nd stag : 4 number Pillar : 16 number  
 Strut of the 3rd stag : 2 number Pillar : 8 number  
 Strut of the 4th stag : 2 number Pillar : 8 number

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Mounting space : 0.030 m

wale(wale(guide) of the 1st stage)

1st stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 ) × π = 26.996 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 ) × 2 = 16.486 m  
 Total = 55.064 m

2nd stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 ) × π = 26.839 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 ) × 2 = 16.286 m  
 Total = 54.707 m

3rd,4th stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 ) × π = 27.153 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 ) × 2 = 16.686 m  
 Total = 55.421 m

Strut

L1= 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 = 8.243 m  
 L2= 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 = 8.143 m  
 L3= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m  
 L4= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m

Pillar Span : 1.3 m

L1= 1.300 × 1.414 = 1.838 m  
 L2= 1.300 × 1.414 = 1.838 m  
 L3= 1.300 × 1.414 = 1.838 m  
 L4= 1.300 × 1.414 = 1.838 m



15. Concrete filling to space between steel pipe well and wale

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Steel pipe well : 30 number

1st stage : 0.350 m  
 2nd stage : 0.400 m  
 3rd,4th stage : 0.300 m

$$\begin{aligned}
 \text{1st stage} &= 11.373^2 \times \pi/4 + (17.164 - 11.373) \times 11.373 \\
 &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\
 &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\
 &\quad - 1.200^2 \times \pi/4 \times 30 \\
 &= 18.3 \text{ m}^2
 \end{aligned}$$

$$\begin{aligned}
 \text{2nd,3rd,4th stage} &= (11.373 - 1.200)^2 \times \pi/4 \\
 &\quad + (17.164 - 11.373) \times (11.373 - 1.200) \\
 &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\
 &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\
 &\quad - 1.200^2 \times \pi/4 \times 30 \quad / \quad 2 \\
 &= 8.0 \text{ m}^2
 \end{aligned}$$

$$\begin{aligned}
 \text{1st stage} &= 18.3 \times 0.350 \times 1 = 6.4 \text{ m}^3 \\
 \text{2nd stage} &= 8.0 \times 0.400 \times 2 = 6.4 \text{ m}^3 \\
 \text{3rd stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3 \\
 \text{4th stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3
 \end{aligned}$$

---


$$\text{Total} = 17.6 \text{ m}^3$$

$$\begin{aligned}
 \text{Consumption} &= 17.6 \times (1 + K) = 18.3 \text{ m}^3 \\
 (\text{K: Correction factor} &= 0.04)
 \end{aligned}$$

$$\text{Formwork} = 18.3 \times 1 + 8.0 \times 4 = 50.3 \text{ m}^2$$

16. Quantity Tabel

(1) Steel pipe well

Type: A,D,E

14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	20.0 m	8.180	1	8.180 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	18.4 m	0.769	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: B,C,F

14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.4 m	0.727	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: G

1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	20.0 m	8.180	1	8.180 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	3	6.696 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	18.4 m	0.769	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	

Type:H 1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	3	6.696 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.4 m	0.727	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	

Type:I 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	35.0 m	14.315	1	14.315 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	20.0 m	8.180	1	8.180 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	18.4 m	0.769	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type:J 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	36.0 m	14.724	1	14.724 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.4 m	0.727	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Total	φ 1200	t= 14mm	( SKY400 )	503.070 t
	φ 1200	t= 14mm	( SKY490 )	110.430 t
	φ 1200	t= 16mm	( SKY400 )	224.160 t
	φ 165.2	t= 11mm	( STK400 )	165.168 t
	Reinforcement Band		( SS400 )	2.880 t
	Members for Perimeter Field Welding (Backing Ring Stopper)		( SS400 )	0.432 t
	Stopper		( SS400 )	288 piece
	Sling①		( SM490A )	0.360 t
	Sling②		( SM490A )	0.936 t
	Interlocking Toe		( SS400 )	74 piece
	Precut			74 point
	In-situ Attached Interlocking			74 point

(2) Supporting

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
Guide frame							
	H-350 × 350 × 12 × 19	48.505	1	135.0	6,548	SS400	Outside
	H-350 × 350 × 12 × 19	38.578	1	135.0	5,208	SS400	Inside
	H-350 × 350 × 12 × 19	16.486	1	135.0	2,226	SS400	Diaphragm Wall
					Total	13,982	
Guide pile							
	H-300 × 300 × 10 × 15	20.000	26	93.0	48,360	SS400	
Support Beam of Guide frame							
	[-200 × 90 × 8 × 13.5	2.530	13	30.3	997	SS400	
wale(wale(guide) of the 1st stage)							
	H-400 × 400 × 13 × 21	54.707	2	172.0	18,819	SS400	2nd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	3rd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	4th stage
strut							
	H-350 × 350 × 12 × 19	8.243	2	135.0	2,226	SS400	1st stage
	H-400 × 400 × 13 × 21	8.143	4	172.0	5,602	SS400	2nd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	3rd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	4th stage
Pillar							
	H-350 × 350 × 12 × 19	1.838	8	135.0	1,985	SS400	1st stage
	H-400 × 400 × 13 × 21	1.838	16	172.0	5,058	SS400	2nd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	3rd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	4th stage
					Main component	49,836 kg	
					Sub component (A)	10,964 kg	Main component × 0.22
					Sub component (B)	1,993 kg	Main component × 0.04

(3) Connection between steel pipe sheet pile and footing

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark
Moment Re-bar						
P1	D22	1.000	600	3.04	1,824	SD345
P2	D22	1.000	600	3.04	1,824	SD345
Shearforce Re-bar						
P3	D22	0.700	1080	3.04	2,300	SD345
P4	D22	0.700	1080	3.04	2,300	SD345
					Total	8,248 kg

(4) Pile head

Type	Specification	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
filled Re-bar							
	D29	2.530	72	5.04	918	SD345	
Tie hoop							
	D13	4.560	48	0.995	218	SD345	
Erection bar							
	D13	3.720	24	0.995	89	SD345	
					Total	1,225 kg	
Shear Connector							
	PL-32 × 16	3.597	12	4.02	174	SS400	
Stopper							
	PL-25 × 9	0.050	36	1.77	3	SS400	
					Total	177 kg	
					Total	1,402 kg	

(5) Others

Type	Item	Unit	Quantity	Remark	memo
<b>Concrete</b>					
	Concrete filling	(m <sup>3</sup> )	282.3	$\sigma_{ck}=21\text{N/mm}^2$	
	Concrete filling (Pile head)	(m <sup>3</sup> )	8.1	$\sigma_{ck}=24\text{N/mm}^2$	
	Concrete filling to space between steel pipe well and wale	(m <sup>3</sup> )	18.3	$\sigma_{ck}=18\text{N/mm}^2$	
	Formwork	(m <sup>2</sup> )	50.3		
	Footing concrete	(m <sup>3</sup> )	492.8	$\sigma_{ck}=24\text{N/mm}^2$	
	Bottom slab concrete	(m <sup>3</sup> )	253.8	$\sigma_{ck}=21\text{N/mm}^2$	
	Spread sand	(m <sup>3</sup> )	58.2		
<b>Mortar filling inside</b>					
	Mortar filling inside joint pipe	(m <sup>3</sup> )	39.6	$\sigma_{ck}=21\text{N/mm}^2$	
	Sealing inside joint pipe	(m <sup>3</sup> )	10.8	$\sigma_{ck}=0.2\text{N/mm}^2$	
	Sealing bag	(m)	756.0		
<b>Excavation</b>					
	Excavation inside the well	(m <sup>3</sup> )	952.0		1314.4
	Excavation inside	(m <sup>3</sup> )	317.8		
	Excavation inside (Pile head)	(m <sup>3</sup> )	44.6		
	Cleaning inside joint pipe	(m)	1,560.1		
	Backfill inside the well	(m <sup>3</sup> )	173.1		173.1
	Surplus soil (waste soil)	(m <sup>3</sup> )	778.9		1141.3

(6) Footing Re-bar

Type	Item	Specification	Division	Unit	Quantity	Remark	
Footing Re-bar	Re-bar	SD345	D 13		kg	—	
			D16~D25	D 16	"	4,498	
				D 19	"	—	
				D 22	"	3,116	
				D 25	"	—	
				Total	"	7,614	
			D29~D32	D 29	"	—	
				D 32	"	12,134	
				Total	"	12,134	
					D 35	"	—
			D 38	"	—		
			D 51	"	31,707		
			Total	"	51,455		
	Mechanical splice	SD345	D 38		Point	—	
			D 51		"	89	
Total			"	89			

17. Road Average N-value

Soil Coefficient : 1.00

Stratum	Formation (m)	N-value	Thickness of Stratum (m)	L × N
Ground level	-6.695	-		
Silty Sand River Sediments	-14.91	3	8.21	24.63
Silty Sand- I	-19.91	13	5.00	65.00
CLAY-A II	-21.91	7	2.00	14.00
Clayey SAND-B	-24.91	13	3.00	39.00
CLAY-A II	-28.91	7	4.00	28.00
Clayey SAND-C	-42.91	20	14.00	280.00
Silty Sand- II	-48.91	30	6.00	180.00
Clayey Sand- I	-50.17	35	1.26	44.10
Total		15.5	43.47	674.73



## 6. P18 PIER

### 6.1 Quantity summary table

【 P18 PIER Quantity summary table (1/5) 】

Work Item	Item		Specification	Division	Unit	Quantity	Remark
Concrete	Reinforced Concrete Structure		$\sigma_{ck}=30\text{N/mm}^2$		m <sup>3</sup>	917.4	
Formwork	Reinforced Concrete Structure		normal form	$H \leq 30\text{m}$	m <sup>2</sup>	350.7	
			Plywood curved panel		"	260.0	
Bearing	Bearing Mortar		Non-shrinkage Mortar		m <sup>3</sup>	1.411	Superstructure construction
	Form for void for Anchor Bolt		Cylindrical mold $\phi 250$		m	16.4	
	Box-out Formwork				m <sup>2</sup>	11.8	
Falsework	Scaffolding (Hand rail precede type)		Average height	$H \leq 30\text{m}$	m <sup>2</sup>	859	
				$H > 30\text{m}$	"	—	
	Total					"	859
Supporting	Support (wedge type)	maximum height from the formation	Support capacity	Under 40kN/m <sup>2</sup>	m <sup>3</sup>	—	
				40kN/m <sup>2</sup> exceed			
				Under 80kN/m <sup>2</sup>	"	—	
				80kN/m <sup>2</sup> exceed	"	117	
	Total					"	117
Re-bar	Re-bar		SD345	D 13	kg	—	
				D16 ~ D25	"	61,682	
				D29 ~ D32	"	8,476	
				D 35	"	—	
				D 38	"	—	
				D 51	"	—	
				Total	"	70,158	
			SD390	D 38	"	63,175	
	Mechanical splice		SD345	D 35	Point	—	
				D 38	"	—	
				D 51	"	—	
				Total	"	—	
				SD390	D 38	"	580

【 P18 PIER Quantity summary table (2/5) 】

Work Item	Component	Division		Unit	Quantity	Remark			
Steel pipe foundation	Steel pipe well	Steel pipe length( $\phi$ 1200mm)		m/Number	55.0				
		Pile number		Number	30	Outside Steel Pipe Well			
				"	6	Diaphragm Steel Sheet Pipe Wall			
		Total		"	36				
		Pile extension		m	1,980.0				
		Embedded depth		m	43.2	Soil Coefficient=1.00			
		1 n u m b e r  ( T y p e A · D · E )	Steel pipe weight	$\phi$ 1200	t=14mm	t	12.270	SKY400	
					t=14mm	"	3.681	SKY490	
					t=16mm	"	7.472	SKY400	
				$\phi$ 165.2	t=11mm	"	4.464	STK400	
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
			Precut		"	2			
			1 n u m b e r  ( T y p e B · C · F )	Steel pipe weight	$\phi$ 1200	t=14mm	t	12.270	SKY400
						t=14mm	"	3.681	SKY490
						t=16mm	"	7.472	SKY400
		$\phi$ 165.2			t=11mm	"	4.464	STK400	
		Accessories weight		Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
		Precut			"	2			
		1 n u m b e r  ( T y p e G )		Steel pipe weight	$\phi$ 1200	t=14mm	t	12.270	SKY400
						t=14mm	"	3.681	SKY490
t=16mm	"					7.472	SKY400		
$\phi$ 165.2	t=11mm		"		6.696	STK400			
Accessories weight	Reinforcement Band		PL t= 9mm	t	0.080	SS400			
	Members for Perimeter Field Welding (Backing Ring Stopper)		PL t=14mm	"	0.012	SS400			
			PL t=16mm	"	—	SS400			
			Sling	PL t=22mm	"	0.036	SM490A		
	Interlocking Toe		PL t=12mm	Piece	3	SS400			
	In-situ Attached Interlocking			Point	3	STK400			
Precut			"	3					

【 P18 PIER Quantity summary table (3/5) 】

Work Item	Component	Division			Unit	Quantity	Remark	
Steel pipe foundation	Steel pipe well	1 n u m b e r  ( T y p e H )	Steel pipe weight	φ 1200	t=14mm	t	12.270	SKY400
					t=14mm	"	3.681	SKY490
					t=16mm	"	7.472	SKY400
				φ 165.2	t=11mm	"	6.696	STK400
		Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
			Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
				PL t=16mm	"	—	SS400	
			Sling	PL t=22mm	"	0.036	SM490A	
			Interlocking Toe	PL t=12mm	Piece	3	SS400	
			In-situ Attached Interlocking		Point	3	STK400	
			Precut		"	3		
		1 n u m b e r  ( T y p e I )	Steel pipe weight	φ 1200	t=14mm	t	22.495	SKY400
					t=14mm	"	—	SKY490
					t=11mm	"	4.464	STK400
				φ 165.2	t=11mm	"	4.464	STK400
		Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
			Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
				PL t=16mm	"	—	SS400	
			Sling	PL t=22mm	"	0.036	SM490A	
			Interlocking Toe	PL t=12mm	Piece	2	SS400	
			In-situ Attached Interlocking		Point	2	STK400	
			Precut		"	2		
		1 n u m b e r  ( T y p e J )	Steel pipe weight	φ 1200	t=14mm	t	22.495	SKY400
					t=14mm	"	—	SKY490
					t=11mm	"	4.464	STK400
				φ 165.2	t=11mm	"	4.464	STK400
		Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
			Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
				PL t=16mm	"	—	SS400	
			Sling	PL t=22mm	"	0.036	SM490A	
			Interlocking Toe	PL t=12mm	Piece	2	SS400	
			In-situ Attached Interlocking		Point	2	STK400	
			Precut		"	2		
		A l l  n u m b e r	Steel pipe weight	φ 1200	t=14mm	t	503.070	SKY400
					t=14mm	"	110.430	SKY490
					t=16mm	"	224.160	SKY400
φ 165.2	t=11mm			"	165.168	STK400		
Accessories weight	Reinforcement Band		PL t= 9mm	t	2.880	SS400		
	Members for Perimeter Field Welding (Backing Ring Stopper)		PL t=14mm	"	0.432	SS400		
			PL t=16mm	"	—	SS400		
	Sling		PL t=22mm	"	1.296	SM490A		
	Interlocking Toe		PL t=12mm	Piece	74	SS400		
	In-situ Attached Interlocking			Point	74	STK400		
	Precut			"	74			

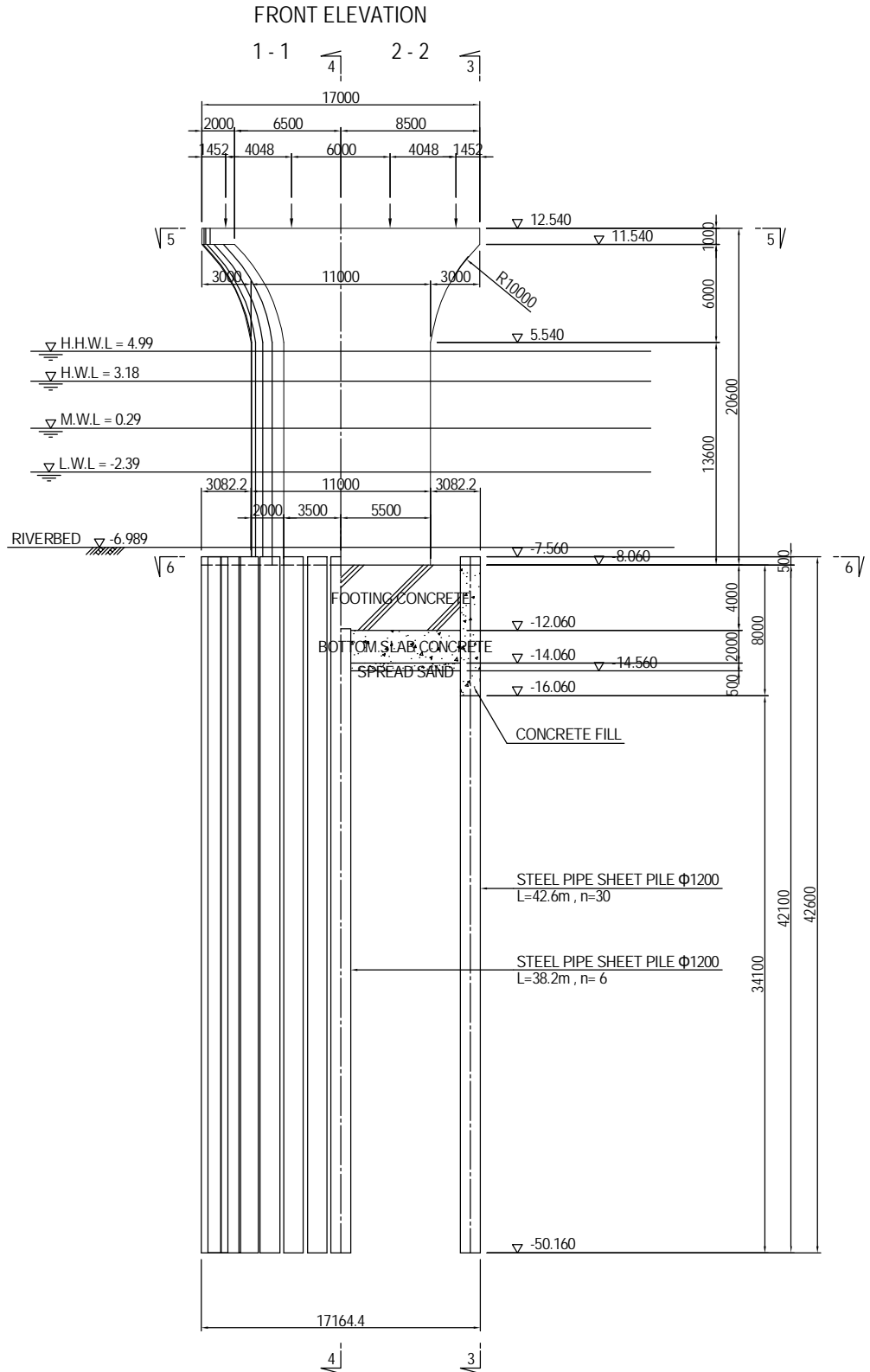
【 P18 PIER Quantity summary table (4/5) 】

Work Item	Component	Division		Unit	Quantity	Remark	
S t e e l  P i p e  f o u n d a t i o n	Excavation inside			m3	307.8		
		Pile head		"	42.6		
	Concrete filling	Fill concrete	$\sigma_{ck}=21\text{N/mm}^2$		m3	282.3	Correction factor=0.04
		Pile head	$\sigma_{ck}=24\text{N/mm}^2$		"	8.1	
	Cleaning inside joint pipe			m	1,549.2		
	Mortar filling inside joint pipe	$\sigma_{ck}=21\text{N/mm}^2$	Mortar length		m	1,509.6	Mortar=2.5m3/100m
			Mortar quantity		m3	39.6	Correction factor=0.05
	Sealing inside joint pipe	$\sigma_{ck}=0.2\text{N/mm}^2$	Sealing length		m	378.0	Mortar=2.5m3/100m
			Sealing quantity		m3	10.8	Correction factor=0.14
			Sealing bag		m	756.0	Sealing 100m=200.0
	Excavation inside the well			m3	915.7		
	Backfill inside the well			m3	135.8		
	Surplus soil (waste soil)			m3	779.9		
	Footing concrete	$\sigma_{ck}=24\text{N/mm}^2$		m3	492.8		
	Bottom slab concrete	$\sigma_{ck}=21\text{N/mm}^2$		m3	253.8	Correction factor=0.09	
	Spread sand			m3	58.2		
	Pile head	Shear Connector	PL-32 × 16 × 3597		kg	174	
		Stopper	PL-25 × 9 × 50		"	3	
	Pile head Re-bar	Re-bar	SD345	D 13	kg	307	
				D16 ~ D25	"	-	
				D29 ~ D32	"	918.0	
				Total	"	1,225	
	Footing Re-bar	Re-bar	SD345	D 13	kg	—	
				D16 ~ D25	"	7,614	
				D29 ~ D32	"	12,134	
				D 35	"	—	
				D 38	"	—	
D 51				"	31,707		
Total				"	51,455		
Mechanical splice		SD345	D 38	Point	—		
	D 51		"	89			
	Total		"	89			

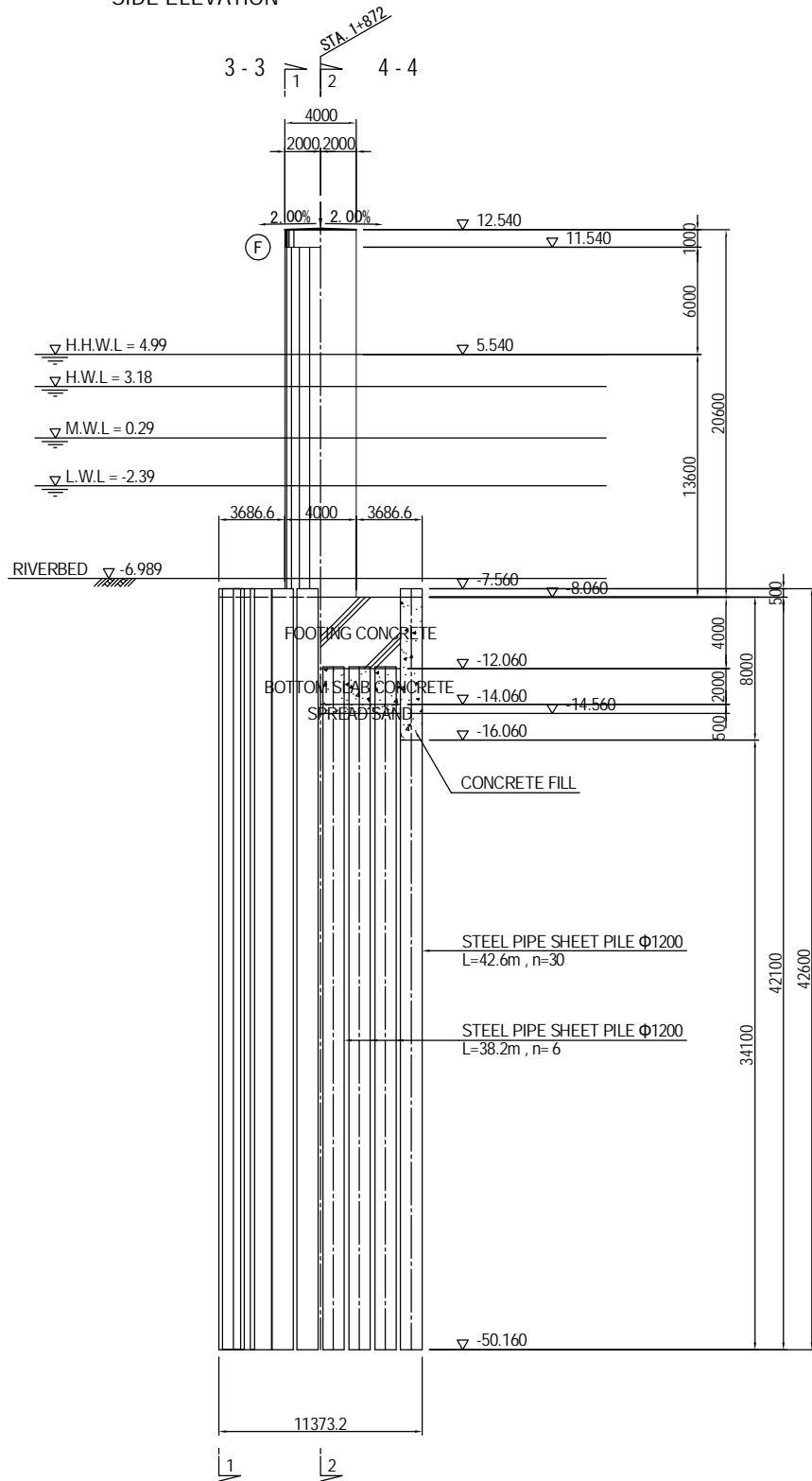
【 P18 PIER Quantity summary table (5/5) 】

Work Item	Component	Division		Unit	Quantity	Remark		
S t e e l  p i p e  f o u n d a t i o n	Falsework (guide frame, wale, strut)	Guide frame	H-350×350×12×19	t	14.0			
		Guide pile	H-300×300×10×15	"	48.4			
		Support Beam of Guide frame	[-200×90×8×13.5	"	1.0			
		wale	H-300×300×10×15	t	10.3			
			H-350×350×12×19	"	—			
			H-400×400×13×21	"	18.8			
		strut	H-300×300×10×15	t	3.1			
			H-350×350×12×19	"	2.2			
			H-400×400×13×21	"	5.6			
		Pillar	H-300×300×10×15	t	2.7			
			H-350×350×12×19	"	2.0			
			H-400×400×13×21	"	5.1			
		Main component Total				t	49.8	SS400
		Sub component A				"	11.0	22%
	Sub component B				"	2.0	4%	
	Total				"	62.8		
	Concrete filling to space between	Falsework	$\sigma_{ck}=18N/mm^2$		m3	18.3	Correction factor=0.04	
		Formwork			m2	50.3		
	Welding of the dowel	Welding of the dowel stage			Stage	840		
		Welding of the dowel Weight			kg	8,248		
	Cut-off the pipe	$\phi 1200$			Number	36		

6.2 General arrangement

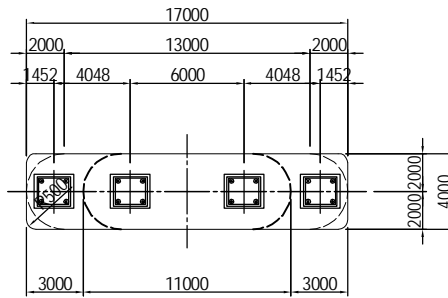


SIDE ELEVATION



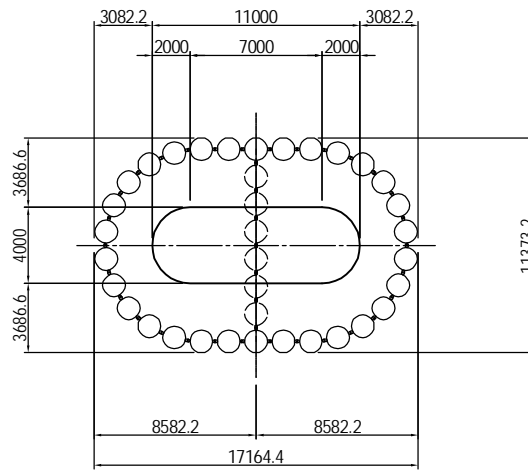
PLAN

5 - 5



PLAN

6 - 6

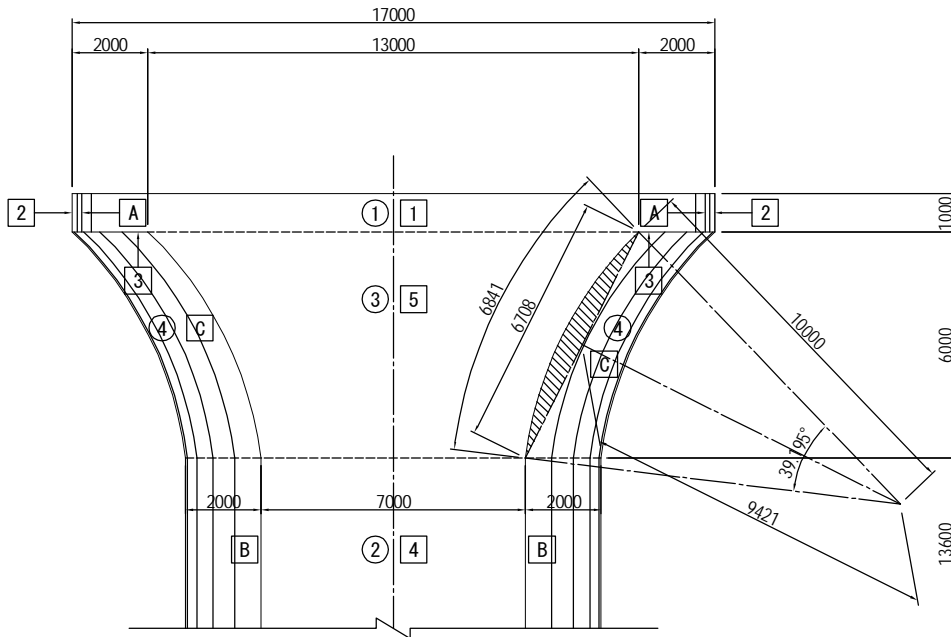


USE MATERIALS

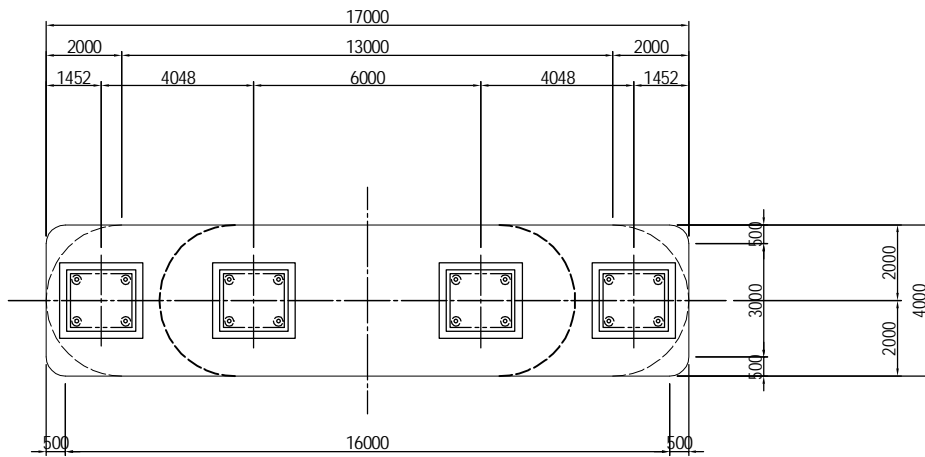
	CONCRETE	BAR
BEAM	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD345
COLUMN	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD390 • SD345
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	SD345



SIDE ELEVATION



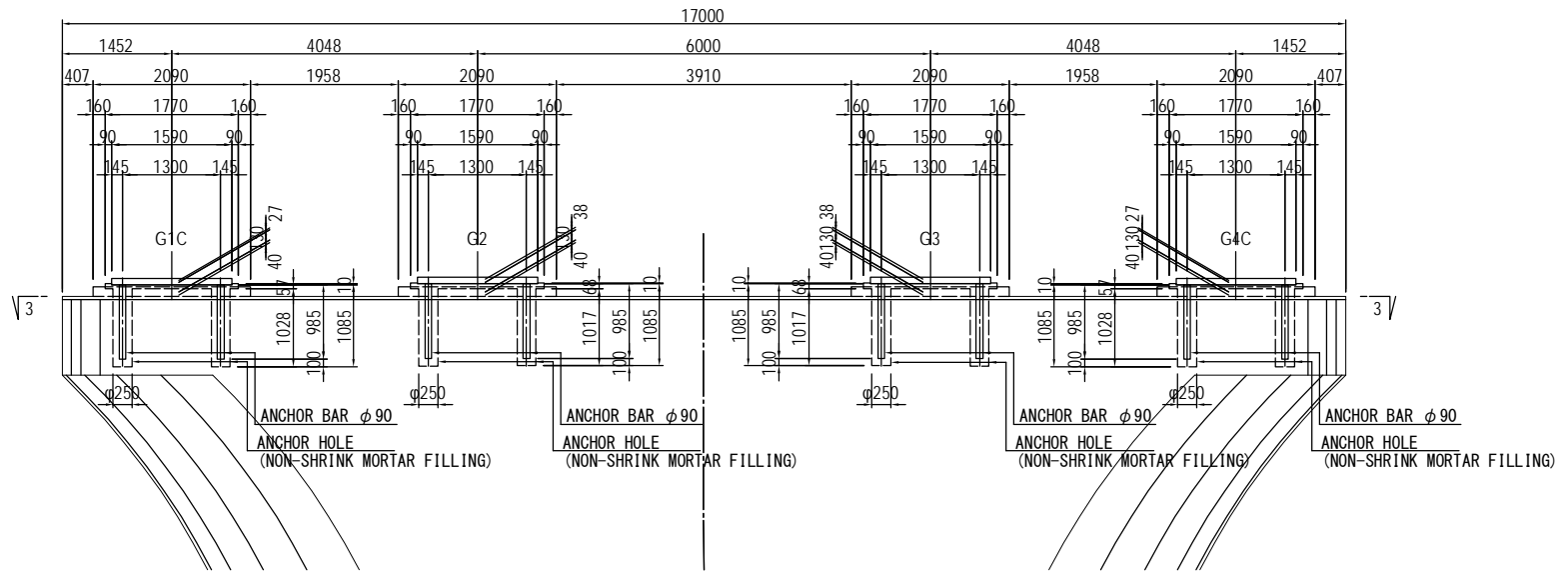
PLAN



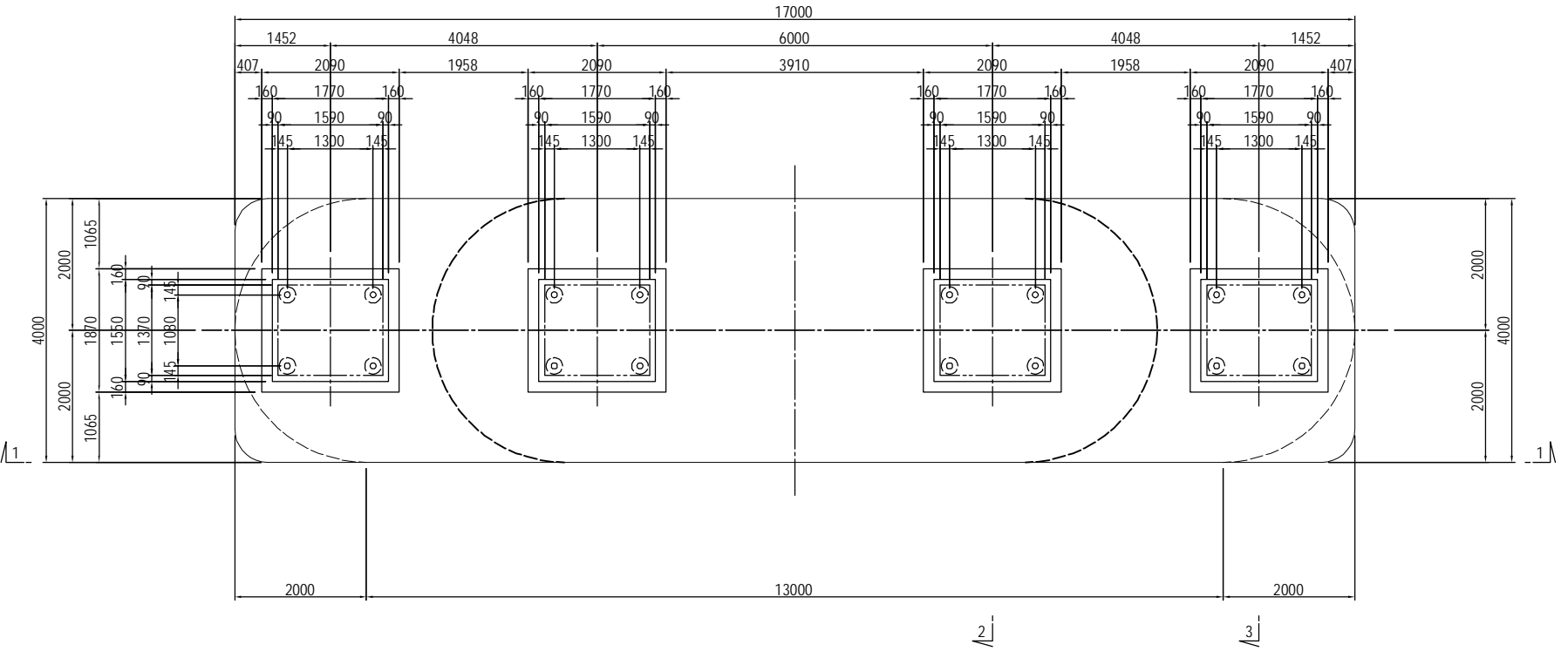
DETAIL OF BEARING AND ANCHOR

FRONT ELEVATION

1 - 1

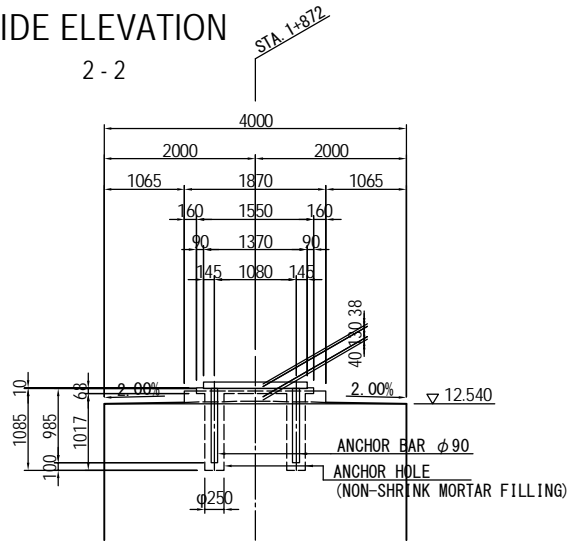


PLAN  
3 - 3



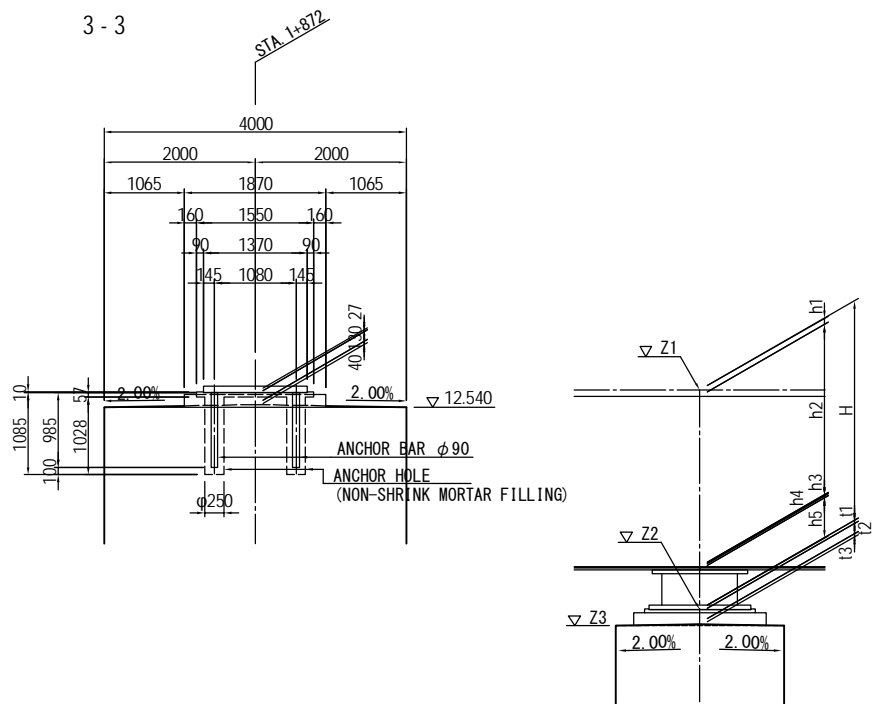
SIDE ELEVATION

2 - 2



SIDE ELEVATION

3 - 3



		P18 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	15.953	16.034	16.034	15.953
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.039	0.028	0.028	0.039
SOLE PLATE	h4	0.035	0.035	0.035	0.035
BEARING	h5	0.353	0.353	0.353	0.353
SUBTOTAL	H	3.216	3.286	3.286	3.216
ELEVATION OF BEARING BOTTOM	Z2	12.737	12.748	12.748	12.737
MORTAR	t1	0.027	0.038	0.038	0.027
BEARING BASE	t2	0.130	0.130	0.130	0.130
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	12.540	12.540	12.540	12.540

### 6.3 Concrete

(1) Pier ( $\sigma_{ck} = 30\text{N/mm}^2$ )

#### 1) Top Beam

$$\textcircled{1} \quad 17.000 * 4.000 * 1.000 = 68.000 \text{ m}^3$$

#### Grade Concrete

$$1/2 * 2.000 * 0.040 * 17.000 * 2 = 1.360 \text{ ''}$$

#### Base Concrete

$$\text{G1} \sim \text{G4} \quad 2.090 * 1.870 * 0.130 * 4 = 2.032 \text{ ''}$$

#### Beam corner cut off

$$-(1.000 * 1.000 - \pi/4 * 1.000 * 1.000) * 1.000 = -0.215 \text{ ''}$$

---


$$\text{Top Beam total} = 71.177 \text{ m}^3$$

#### 2) Beam and Pier Column

##### 【 Cross section 】

$$\text{A} = \pi/4 * 4.000 * 4.000 + 7.000 * 4.000 = 40.566 \text{ m}^2$$

$$\textcircled{2} \quad 40.566 * 13.600 = 551.698 \text{ m}^3$$

$$\textcircled{3} \quad 1/2 * (7.000 + 13.000) * 6.000 * 4.000 = 240.000 \text{ ''}$$

$$\textcircled{4} \quad \pi/4 * 4.000 * 4.000 * 6.000 = 75.398 \text{ ''}$$

#### Subtraction of circular arc parts

$$-(\pi * 10.000 * 10.000 * 39.195 / 360 - 1/2 * 6.708 * 9.421) * 4.000 * 2 = -20.848 \text{ ''}$$

---


$$\text{Beam and Pier Column total} = 846.248 \text{ m}^3$$

---


$$\text{Pier total} = 917.425 \text{ m}^3$$

## 6.4 Formwork

### (1) Pier

【 Formwork Division 】 normal form

【 Structure Division 】 Reinforced Concrete Structure

【 height Division 】 [Average height ]  $H \leq 30m$

#### 1) Top Beam

$$\boxed{1} \quad 16.000 * 1.000 * 2 = 32.000 \text{ m}^2$$

$$\boxed{2} \quad 3.000 * 1.000 * 2 = 6.000 \text{ ''}$$

$$\boxed{3} \quad \left( 4.000 * 4.000 - \frac{\pi}{4} * 4.000 * 4.000 \right) - \left( 1.000 * 1.000 - \frac{\pi}{4} * 1.000 * 1.000 \right) = 3.219 \text{ ''}$$

#### Grade Concrete

$$1/2 * 2.000 * 0.040 * 2 * 2 = 0.160 \text{ ''}$$

#### Base Concrete

$$G1 \sim G4 \left( 2.090 + 1.870 \right) * 2 * 0.130 * 4 = 4.118 \text{ ''}$$

---


$$\text{Top Beam total} = 45.497 \text{ m}^2$$

#### 2) Beam and Pier Column

$$\boxed{4} \quad 7.000 * 13.600 * 2 = 190.400 \text{ m}^2$$

$$\boxed{5} \quad 1/2 * \left( 7.000 + 13.000 \right) * 6.000 * 2 = 120.000 \text{ ''}$$

#### Subtraction of circular arc parts

$$- \left( \pi * 10.000 * 10.000 * \frac{39.195}{360} - \frac{1}{2} * 6.708 * 9.421 \right) * 2 = -5.212 \text{ ''}$$

---


$$\text{Beam and Pier Column total} = 305.188 \text{ m}^2$$

---


$$\text{normal form total} = 350.685 \text{ m}^2$$

【 Structure Division 】 Reinforced Concrete Structure(Plywood curved panel)

1) Top Beam

<span style="border: 1px solid black; padding: 2px;">A</span>	$\pi$	*	1.000	*	1.000		=	<u>3.142 m2</u>
---	-------	---	-------	---	-------	--	---	-----------------

2) Beam and Pier Column

<span style="border: 1px solid black; padding: 2px;">B</span>	$\pi$	*	4.000	*	13.600		=	170.903 m2
---	-------	---	-------	---	--------	--	---	------------

<span style="border: 1px solid black; padding: 2px;">C</span>	$\pi$	*	4.000	*	6.841		=	85.967 "
---	-------	---	-------	---	-------	--	---	----------

---

	Beam and Pier Column total	=	256.870 m2
--	----------------------------	---	------------

---

	Plywood curved panel total	=	260.012 m2
--	----------------------------	---	------------

6.5 Re-bar

Work Item	Item	Specification	Division	Unit	Quantity	Remark	
Re-bar	Re-bar	SD345	D 13		kg	—	
			D16~D25	D 16	"	2,359	
				D 19	"	—	
				D 22	"	59,323	
				D 25	"	—	
				Total	"	61,682	
				D29~D32	D 29	"	—
			D 32		"	8,476	
			Total		"	8,476	
			D 35		"	—	
			D 38		"	—	
			D 51		"	—	
			Total		"	70,158	
				SD390	D 38	"	63,175
	Mechanical splice	SD345	D 35		Point	—	
			D 38		"	—	
			D 51		"	—	
			Total		"	—	
		SD390	D 38		"	580	



## 6.6 Bearing

### (1) Non-shrinkage Mortar

* G1&G4	t 1 = 37 mm												
Bearing	1.770	*	1.550	*	0.037			=	0.1015 m3				
Box-out	1.770	*	1.550	*	0.030			=	0.0823 "				
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.028	*	4	=	0.2018 "
Base pl	-	1.590	*	1.370	*	0.010						=	-0.0218 "
Anchor	-1/4	*	$\pi$	*	0.090	*	0.090	*	0.985	*	4	=	-0.0251 "
<hr/>													
									v1			=	0.3387 m3
* G2&G3	t 2 = 48 mm												
Bearing	1.770	*	1.550	*	0.048							=	0.1317 m3
Box-out	1.770	*	1.550	*	0.030							=	0.0823 "
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.017	*	4	=	0.1997 "
Base pl	-	1.590	*	1.370	*	0.010						=	-0.0218 "
Anchor	-1/4	*	$\pi$	*	0.090	*	0.090	*	0.985	*	4	=	-0.0251 "
<hr/>													
									v2			=	0.3668 m3
V	=	0.3387	*	2	+	0.3668	*	2				=	<u>1.4110 m3</u>

### (2) Form for void for Anchor Bolt

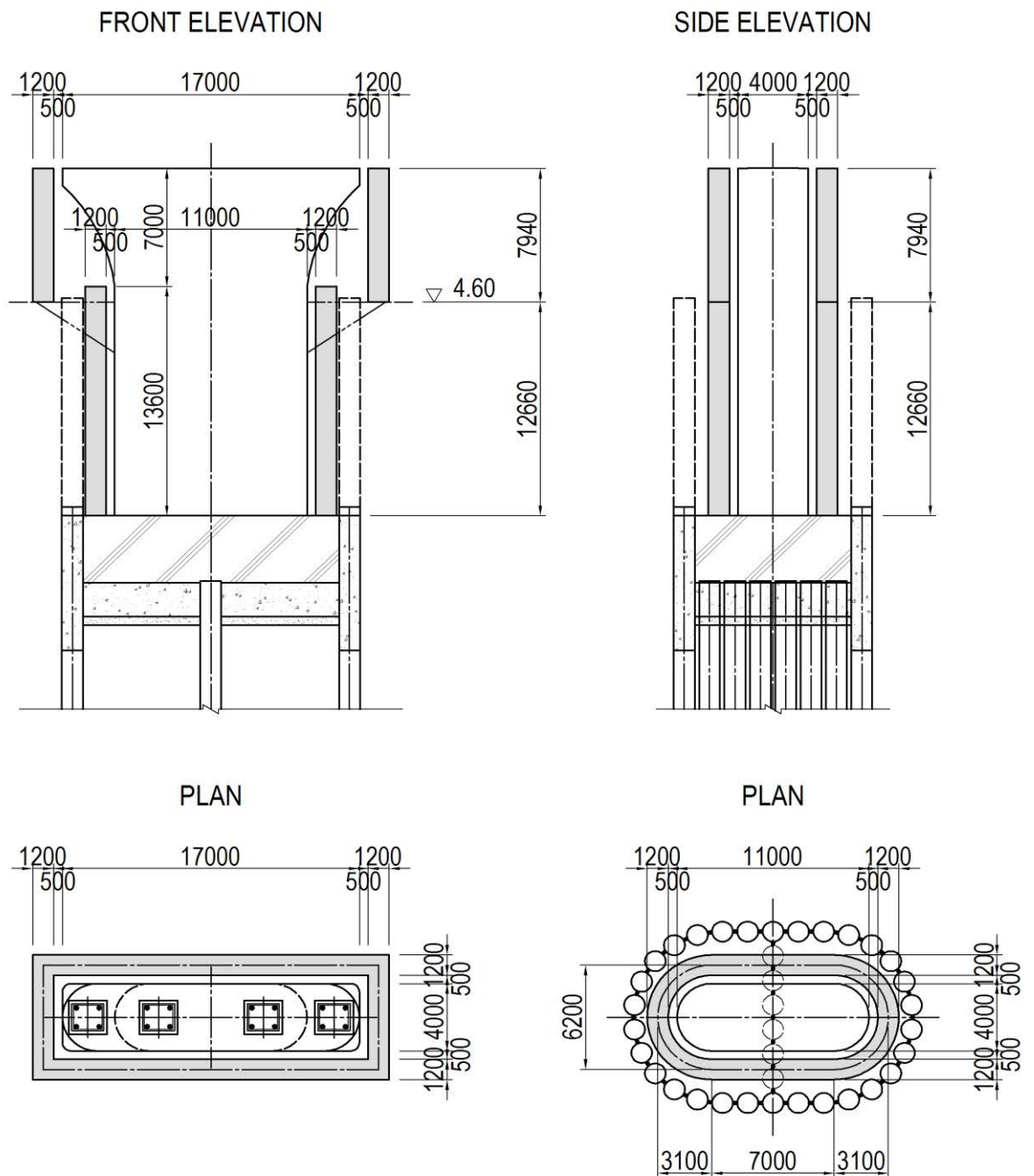
【 Cylindrical mold 】	$\phi$ = 250 mm										
L1	=	1.028	*	4	*	2			=	8.224 m	
L2	=	1.017	*	4	*	2			=	8.136 "	
<hr/>											
									$\Sigma L$	=	<u>16.360 m</u>

### (3) Form for box-out

A	=	{ 2 * ( 1.770 + 1.550 ) * 0.030 + 1.770											
			*	1.550	}	*	4					=	<u>11.771 m2</u>

### 6.7 Falsework

(1) Scaffolding (Hand rail precede type)



【height Division】 [Average height] -----  $H \leq 30m$

1) Beam

(Falsework height) H1 = 7.940 m

$$W = \{ 2 * ( 17.000 + 4.000 ) + 8.800 \} * 7.940 = 403.35 \text{ m}^2$$

2) Pierstud

(Falsework height) H2 = 13.600 m

$$W1 = 7.000 * 13.600 * 2 = 190.40 \text{ m}^2$$

$$W2 = \pi * 6.200 * 13.600 = 264.90 \text{ ''}$$

---

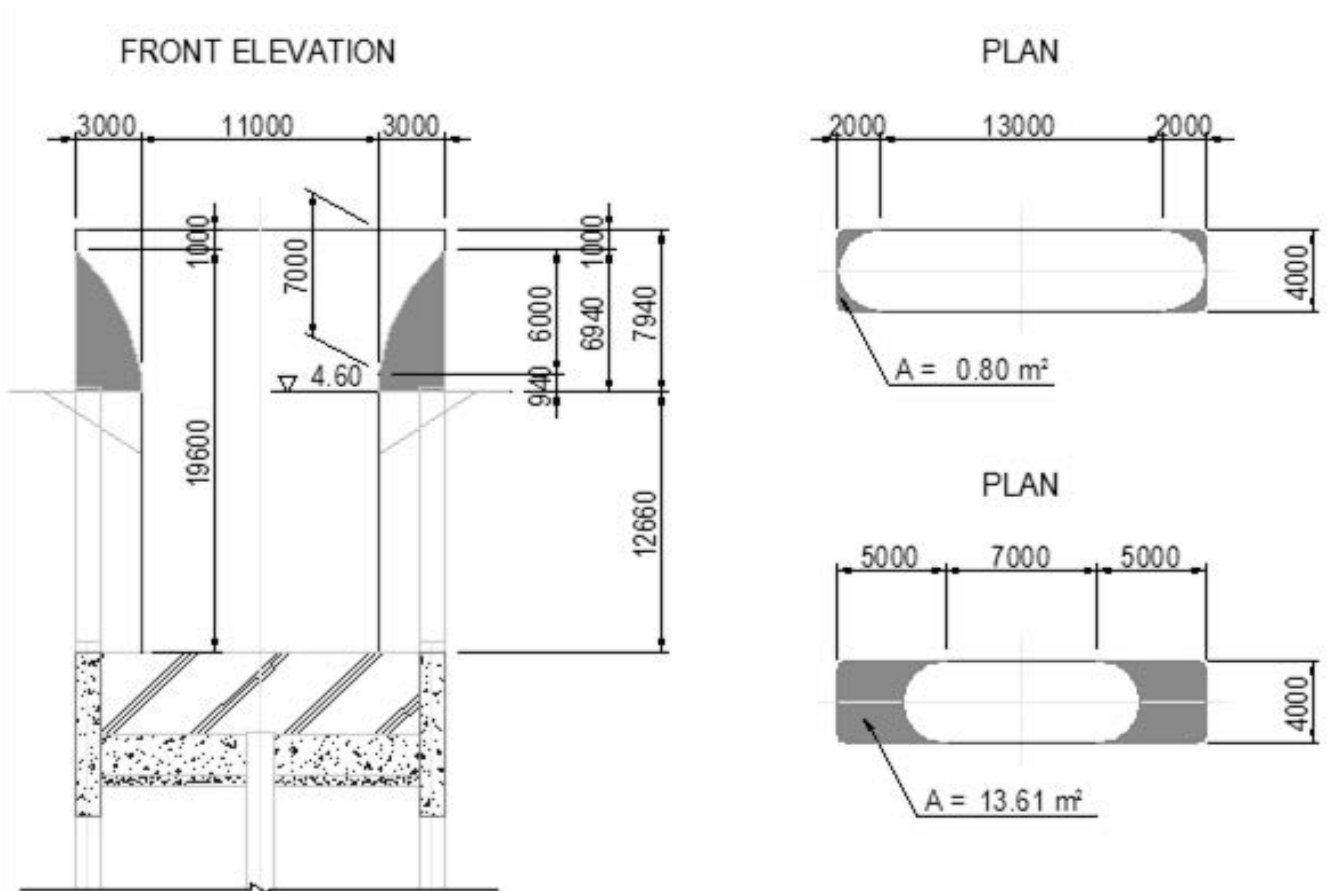

$$\text{Pierstud total} = 455.30 \text{ m}^2$$

---


$$\text{Scaffolding (Hand rail precede type) total} = 858.65 \text{ m}^2$$

## 6.8 Supporting

### (1) Support (wedge type)



【height Division】 [Average height] -----  $H \leq 30\text{m}$

[maximum height from the formation] -----  $H \leq 30\text{m}$

#### 【Average height】

$$H = 1/2 * ( 0.940 + 6.940 ) = \underline{\underline{3.940 \text{ m}}}$$

#### 【Support capacity】

$$\begin{aligned} \text{Average concrete } t &= 1/2 * ( 100.0 + 700.0 ) = \underline{\underline{400.0 \text{ cm}}} \\ &= 250\text{cm} < t \end{aligned}$$

$$\text{Support capacity } \omega = 80\text{kN/m}^2 < \omega$$

#### 【Supporting area】

$$\begin{aligned} A1 &= 13.61 * 2 = 27.22 \text{ m}^2 \\ A2 &= 0.80 * 4 = 3.20 \text{ m}^2 \end{aligned}$$

【Supporting vorum】

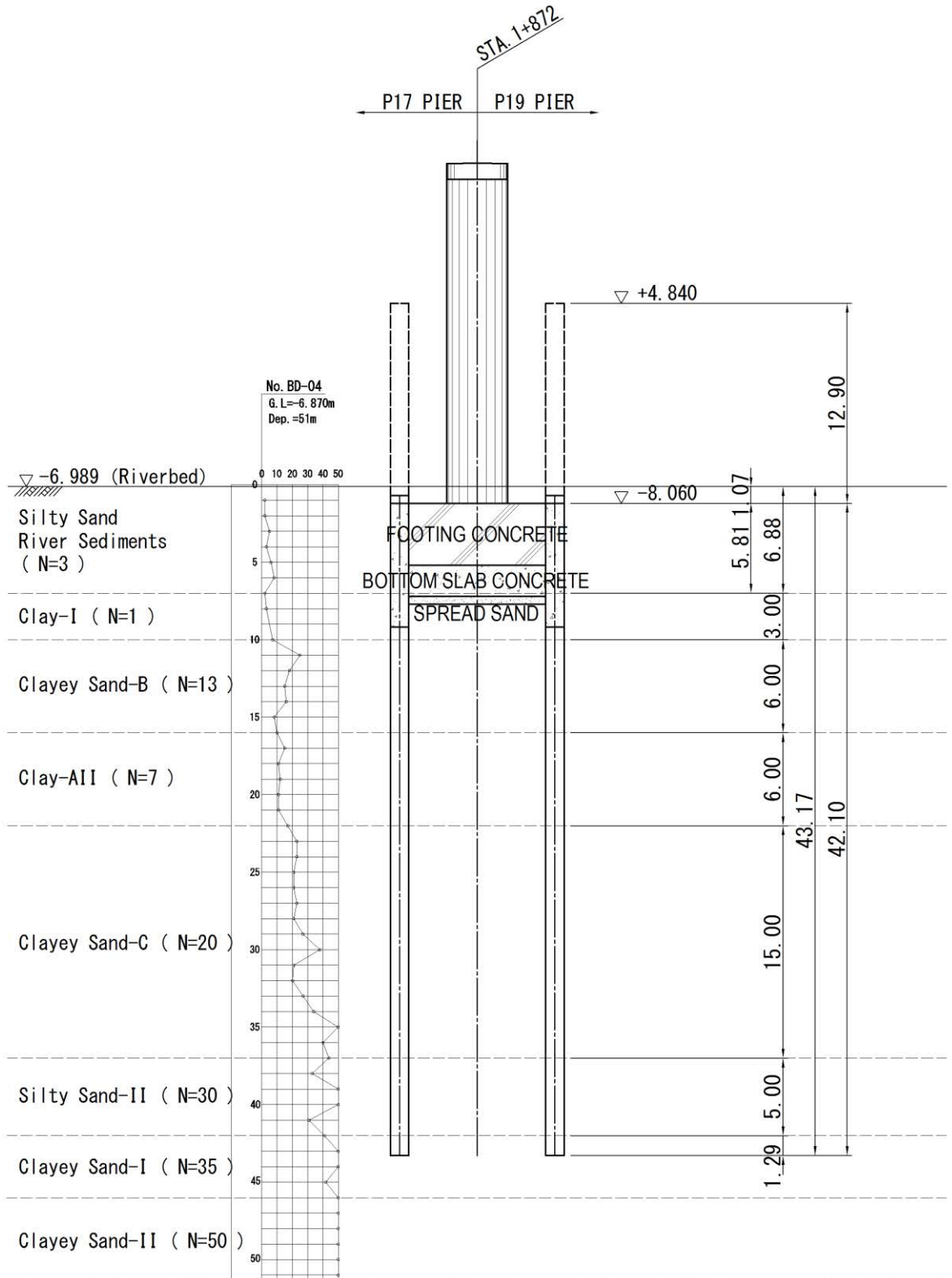
$$V1 = 27.22 * 0.940 = 25.59 \text{ m}^3$$

$$V2 = 1/2 * ( 27.22 + 3.20 ) * 6.000 = 91.26 \text{ ''}$$

---

$$\text{Supporting Total} = 116.85 \text{ m}^3$$

6.9 Foundation



1. ruler

Guide frame : 0.350 m (H-350 × 350 × 12 × 19)  
Weight : 135.0 kg/m

well Outside : 11.373 m (Bridge axial direction)  
well Outside : 17.164 m (Right angle direction)  
Steel pipe well : 1.200 m  
Mounting space : 0.030 m

Guide frame(Outside)

$$\begin{aligned} L1 &= ( 11.373 + 0.030 + 0.350 ) \times \pi &= & 36.923 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 &= & 11.582 \text{ m} \\ \text{Total} & &= & 48.505 \text{ m} \\ W1 &= 48.505 \times 135.0 &= & 6.548 \text{ t} \end{aligned}$$

Guide frame(Inside)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 ) \times \pi &= & 26.996 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 &= & 11.582 \text{ m} \\ \text{Total} & &= & 38.578 \text{ m} \\ W2 &= 38.578 \times 135.0 &= & 5.208 \text{ t} \end{aligned}$$

Guide frame(Diaphragm Wall)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 \times 2 ) \times 2 &= & 16.486 \text{ m} \\ W3 &= 16.486 \times 135.0 &= & 2.226 \text{ t} \end{aligned}$$

Total

$$W = W1 + W2 + W3 = 6.548 + 5.208 + 2.226 = 13.982 \text{ t}$$

Guide frame : 0.300 m (H-300 × 300 × 10 × 15)  
Weight : 93.0 kg/m  
Guide pile : 20.000 m

Guide pile

$$\begin{aligned} n1 &= 26 \text{ number} \\ W1 &= 26 \times 20.000 \times 93.0 = 48.360 \text{ t} \end{aligned}$$

2. Excavation inside

Steel pipe well : 1.200 m  
Steel pipe well area : 1.131 m<sup>2</sup>  
Steel pipe well number : 30 number (Circumference)  
Ground level : -6.989 m  
Footing Top : -8.060 m  
Footing : 4.000 m

$$\begin{aligned} \text{Excavation inside} &= 1.131 \times ( -6.989 - -8.060 + 4.000 \times 2 ) \times 30 \\ &= 307.8 \text{ m}^3 \end{aligned}$$

### 3. Concrete filling

Steel pipe well	:	1.200	m						
Steel pipe well area	:	1.131	m <sup>2</sup>						
Filled concrete	:	8.000	m						
Steel pipe well number	:	30	number	(Circumference)					
Concrete filling	=	1.131	×	8.000	×	30	=	271.4	m <sup>3</sup>
Consumption	=	271.4	×	( 1 + K )	=	282.3	m <sup>3</sup>		
(K: Correction factor	=	0.04	)						

### 4. Cleaning inside joint pipe

Ground level	:	-6.989	m				
Steel pipe well Top	:	4.840	m				
Steel pipe well	:	55.000	m				
Steel pipe well Bottom	:	-50.160	m				
Nothing inside joint pip	:	1.300	m	(Steel pipe well Bottom)			
Inside joint pipe	:	37	number	(Circumference + Diaphragm Wall)			
Cleaning inside joint pipe	=	( -6.989 - -50.160 - 1.300 )	×	37	=	1549.2	m

### 5. Mortar filling inside joint pipe

Footing Top	:	-8.060	m				
Steel pipe well Top	:	4.840	m				
Steel pipe well	:	55.000	m				
Steel pipe well Bottom	:	-50.160	m				
Nothing inside joint pip	:	1.300	m	(Steel pipe well Bottom)			
Inside joint pipe	:	37	number	(Circumference + Diaphragm Wall)			
inside joint pipe area	:	0.025	m <sup>2</sup>	( $\phi$ 165.2*t11)			
Mortar length	=	( -8.060 - -50.160 - 1.300 )	×	37	=	1509.6	m
Mortar quantity	=	1509.6	×	0.025	=	37.7	m <sup>3</sup>
Consumption	=	37.7	×	( 1 + K )	=	39.6	m <sup>3</sup>
(K: Correction factor	=	0.05	)				

### 6. Sealing inside joint pipe

Footing Top	:	-8.060	m				
Steel pipe well Top	:	4.840	m				
Nothing inside joint pip	:	0.300	m	(Steel pipe well Bottom)			
Steel pipe well Top	:	30	number	(Circumference)			
Sealing length	=	( 4.840 - -8.060 - 0.300 )	×	30	=	378.0	m
Sealing quantity	=	378.0	×	0.025	=	9.5	m <sup>3</sup>
Consumption	=	9.5	×	( 1 + K )	=	10.8	m <sup>3</sup>
(K: Correction factor	=	0.14	)				
Sealing bag	=	378.0	×	2	=	756.0	m



## 7. Excavation inside the well

### (1) Excavation

well Outside	:	11.373 m	(Bridge axial direction)
well Outside	:	17.164 m	(Right angle direction)
Steel pipe well	:	1.200 m	
Steel pipe well area	:	1.131 m <sup>2</sup>	
Steel pipe well	:	30 number	(Circumference)
Steel pipe well	:	6 number	(Diaphragm Wall)

$$\begin{aligned} \text{Inside the well area} &= (11.373 - 1.200)^2 \times \pi/4 \\ &+ (17.164 - 11.373) \times (11.373 - 1.200) \\ &- 1.131 \times 30 / 2 \\ &= 123.2 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Diaphragm Wall area} &= 1.131 \times 6 = 6.8 \text{ m}^2 \\ &= 123.2 - 6.8 \\ &= 116.4 \end{aligned}$$

Ground level	:	-6.989 m
Footing Top	:	-8.060 m
Footing	:	4.000 m
Bottom slab	:	2.000 m
Spread sand	:	0.500 m

$$\begin{aligned} &= 123.2 \times (-6.989 - -8.060 + 4.000) \\ &+ 116.4 \times (2.000 + 0.500) \\ &= 915.7 \text{ m}^3 \end{aligned}$$

### (2) Backfill inside the well

Pier	:	4.000 m	(Bridge axial direction)
	:	11.000 m	(Right angle direction)

$$\begin{aligned} \text{Pier area} &= (4.000)^2 \times \pi/4 + (11.000 - 4.000) \times 4.000 \\ &= 40.6 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Inside the well area} &= (11.373)^2 \times \pi/4 + (17.164 - 11.373) \times 11.373 \\ &= 167.4 \text{ m}^2 \end{aligned}$$

$$\text{Backfill} = (167.4 - 40.6) \times (-6.989 - -8.060) = 135.8 \text{ m}^3$$

### (3) Surplus soil (waste soil)

$$\text{Surplus soil} = 915.7 - 135.8 = 779.9 \text{ m}^3$$

## 8. Footing concrete

Inside the well area	:	123.2 m <sup>2</sup>
Footing	:	4.000 m

$$\text{Footing concrete} = 123.2 \times 4.000 = 492.8 \text{ m}^3$$

### 9. Bottom slab concrete

Inside the well area	:	116.4	m <sup>2</sup>		
Bottom slab	:	2.000	m		
Bottom slab concrete	=	116.4	×	2.000	= 232.8 m <sup>3</sup>
Consumption	=	232.8	×	( 1 + K )	= 253.8 m <sup>3</sup>
(K: Correction factor	=	0.09	)		

### 10. Spread sand

Inside the well area	:	116.4	m <sup>2</sup>		
Spread sand	:	0.500	m		
Spread sand	=	116.4	×	0.500	= 58.2 m <sup>3</sup>

### 11. Welding of the dowel

Steel pipe well	:	30	number	(Circumference)	
Moment Re-bar	:	10	Stage		
Shearforce Re-bar	:	18	Stage		
Welding of the dowel	=	30	×	( 10 + 18 )	
	=	840	Stage		

### 12. Pile head

Steel pipe well	:	1.200	m			
Steel pipe well area	:	1.131	m <sup>2</sup>			
Steel pipe well	:	6	number	(Diaphragm Wall)		
Filled concrete	:	1.300	m	(Subtraction of imbedding)	: 1.200 m	
Ground level	:	-6.989	m			
Footing Bottom	:	-12.060	m			
Excavation inside	=	1.131	×	( -6.989 - -12.060 + 1.200 )	×	6
	=	42.6	m <sup>3</sup>			
Concrete filling	=	1.131	×	1.200	×	6
	=	8.1	m <sup>3</sup>			

### 13. Cut-off the pipe

Steel pipe well	:	30	number	(Circumference)		
		6	number	(Diaphragm Wall)		
Steel pipe well Top	:	4.840	m			
Cut-off Position	:	-7.560	m			
	:	-11.960	m			
Cut-off	=	4.840	-	-7.560	= 12.400 m	(Circumference)
	=	4.840	-	-11.960	= 16.800 m	(Diaphragm Wall)

14. Falsework

1st stage : 0.350 m (H-350 × 350 × 12 × 19)  
 2nd stage : 0.400 m (2H-400 × 400 × 13 × 21)  
 3rd,4th stage : 0.300 m (H-300 × 300 × 10 × 15)

Strut of the 1st stag : 2 number Pillar : 8 number  
 Strut of the 2nd stag : 4 number Pillar : 16 number  
 Strut of the 3rd stag : 2 number Pillar : 8 number  
 Strut of the 4th stag : 2 number Pillar : 8 number

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Mounting space : 0.030 m

wale(wale(guide) of the 1st stage)

1st stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 ) × π = 26.996 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 ) × 2 = 16.486 m  
 Total = 55.064 m

2nd stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 ) × π = 26.839 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 ) × 2 = 16.286 m  
 Total = 54.707 m

3rd,4th stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 ) × π = 27.153 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 ) × 2 = 16.686 m  
 Total = 55.421 m

Strut

L1= 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 = 8.243 m  
 L2= 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 = 8.143 m  
 L3= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m  
 L4= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m

Pillar Span : 1.3 m

L1= 1.300 × 1.414 = 1.838 m  
 L2= 1.300 × 1.414 = 1.838 m  
 L3= 1.300 × 1.414 = 1.838 m  
 L4= 1.300 × 1.414 = 1.838 m

15. Concrete filling to space between steel pipe well and wale

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Steel pipe well : 30 number

1st stage : 0.350 m  
 2nd stage : 0.400 m  
 3rd,4th stage : 0.300 m

$$\begin{aligned} \text{1st stage} &= 11.373^2 \times \pi/4 + (17.164 - 11.373) \times 11.373 \\ &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\ &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\ &\quad - 1.200^2 \times \pi/4 \times 30 \\ &= 18.3 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{2nd,3rd,4th stage} &= (11.373 - 1.200)^2 \times \pi/4 \\ &\quad + (17.164 - 11.373) \times (11.373 - 1.200) \\ &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\ &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\ &\quad - 1.200^2 \times \pi/4 \times 30 \quad / \quad 2 \\ &= 8.0 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{1st stage} &= 18.3 \times 0.350 \times 1 = 6.4 \text{ m}^3 \\ \text{2nd stage} &= 8.0 \times 0.400 \times 2 = 6.4 \text{ m}^3 \\ \text{3rd stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3 \\ \text{4th stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3 \end{aligned}$$

---


$$\text{Total} = 17.6 \text{ m}^3$$

$$\begin{aligned} \text{Consumption} &= 17.6 \times (1 + K) = 18.3 \text{ m}^3 \\ (\text{K: Correction factor} &= 0.04) \end{aligned}$$

$$\text{Formwork} = 18.3 \times 1 + 8.0 \times 4 = 50.3 \text{ m}^2$$

16. Quantity Tabel

(1) Steel pipe well

Type: A,D,E 14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	20.0 m	8.180	1	8.180 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	18.4 m	0.769	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: B,C,F 14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.4 m	0.727	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: G 1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	20.0 m	8.180	1	8.180 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	3	6.696 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	18.4 m	0.769	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	

Type:H 1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	3	6.696 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.4 m	0.727	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	

Type:I 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	35.0 m	14.315	1	14.315 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	20.0 m	8.180	1	8.180 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	18.4 m	0.769	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type:J 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	36.0 m	14.724	1	14.724 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	19.0 m	7.771	1	7.771 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.464 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	17.4 m	0.727	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Total	φ 1200	t= 14mm	( SKY400 )	503.070 t
	φ 1200	t= 14mm	( SKY490 )	110.430 t
	φ 1200	t= 16mm	( SKY400 )	224.160 t
	φ 165.2	t= 11mm	( STK400 )	165.168 t
	Reinforcement Band		( SS400 )	2.880 t
	Members for Perimeter Field Welding (Backing Ring Stopper)		( SS400 )	0.432 t
	Stopper		( SS400 )	288 piece
	Sling①		( SM490A )	0.360 t
	Sling②		( SM490A )	0.936 t
	Interlocking Toe		( SS400 )	74 piece
	Precut			74 point
	In-situ Attached Interlocking			74 point

(2) Supporting

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
Guide frame							
	H-350 × 350 × 12 × 19	48.505	1	135.0	6,548	SS400	Outside
	H-350 × 350 × 12 × 19	38.578	1	135.0	5,208	SS400	Inside
	H-350 × 350 × 12 × 19	16.486	1	135.0	2,226	SS400	Diaphragm Wall
					Total	13,982	
Guide pile							
	H-300 × 300 × 10 × 15	20.000	26	93.0	48,360	SS400	
Support Beam of Guide frame							
	[-200 × 90 × 8 × 13.5	2.530	13	30.3	997	SS400	
wale(wale(guide) of the 1st stage)							
	H-400 × 400 × 13 × 21	54.707	2	172.0	18,819	SS400	2nd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	3rd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	4th stage
strut							
	H-350 × 350 × 12 × 19	8.243	2	135.0	2,226	SS400	1st stage
	H-400 × 400 × 13 × 21	8.143	4	172.0	5,602	SS400	2nd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	3rd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	4th stage
Pillar							
	H-350 × 350 × 12 × 19	1.838	8	135.0	1,985	SS400	1st stage
	H-400 × 400 × 13 × 21	1.838	16	172.0	5,058	SS400	2nd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	3rd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	4th stage
					Main component	49,836 kg	
					Sub component (A)	10,964 kg	Main component × 0.22
					Sub component (B)	1,993 kg	Main component × 0.04

(3) Connection between steel pipe sheet pile and footing

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark
Moment Re-bar						
P1	D22	1.000	600	3.04	1,824	SD345
P2	D22	1.000	600	3.04	1,824	SD345
Shearforce Re-bar						
P3	D22	0.700	1080	3.04	2,300	SD345
P4	D22	0.700	1080	3.04	2,300	SD345
					Total	8,248 kg

(4) Pile head

Type	Specification	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
filled Re-bar							
	D29	2.530	72	5.04	918	SD345	
Tie hoop							
	D13	4.560	48	0.995	218	SD345	
Erection bar							
	D13	3.720	24	0.995	89	SD345	
					Total	1,225 kg	
Shear Connector							
	PL-32 × 16	3.597	12	4.02	174	SS400	
Stopper							
	PL-25 × 9	0.050	36	1.77	3	SS400	
					Total	177 kg	
					Total	1,402 kg	



(5) Others

Type	Item	Unit	Quantity	Remark	memo
<b>Concrete</b>					
	Concrete filling	(m <sup>3</sup> )	282.3	$\sigma_{ck}=21\text{N/mm}^2$	
	Concrete filling (Pile head)	(m <sup>3</sup> )	8.1	$\sigma_{ck}=24\text{N/mm}^2$	
	Concrete filling to space between steel pipe well and wale	(m <sup>3</sup> )	18.3	$\sigma_{ck}=18\text{N/mm}^2$	
	Formwork	(m <sup>2</sup> )	50.3		
	Footing concrete	(m <sup>3</sup> )	492.8	$\sigma_{ck}=24\text{N/mm}^2$	
	Bottom slab concrete	(m <sup>3</sup> )	253.8	$\sigma_{ck}=21\text{N/mm}^2$	
	Spread sand	(m <sup>3</sup> )	58.2		
<b>Mortar filling inside</b>					
	Mortar filling inside joint pipe	(m <sup>3</sup> )	39.6	$\sigma_{ck}=21\text{N/mm}^2$	
	Sealing inside joint pipe	(m <sup>3</sup> )	10.8	$\sigma_{ck}=0.2\text{N/mm}^2$	
	Sealing bag	(m)	756.0		
<b>Excavation</b>					
	Excavation inside the well	(m <sup>3</sup> )	915.7		1266.1
	Excavation inside	(m <sup>3</sup> )	307.8		
	Excavation inside (Pile head)	(m <sup>3</sup> )	42.6		
	Cleaning inside joint pipe	(m)	1,549.2		
	Backfill inside the well	(m <sup>3</sup> )	135.8		135.8
	Surplus soil (waste soil)	(m <sup>3</sup> )	779.9		1130.3

(6) Footing Re-bar

Type	Item	Specification	Division	Unit	Quantity	Remark	
Footing Re-bar	Re-bar	SD345	D 13		kg	—	
			D16~D25	D 16	"	4,498	
				D 19	"	—	
				D 22	"	3,116	
				D 25	"	—	
				Total	"	7,614	
			D29~D32	D 29	"	—	
				D 32	"	12,134	
				Total	"	12,134	
			D 35		"	—	
			D 38		"	—	
	D 51		"	31,707			
	Total		"	51,455			
	Mechanical splice	SD345	D 38		Point	—	
			D 51		"	89	
			Total		"	89	

17. Road Average N-value

Soil Coefficient : 1.00

Stratum	Formation (m)	N-value	Thickness of Stratum (m)	L × N
Ground level	-6.989	-		
Silty Sand River Sediments	-13.87	3	6.88	20.64
CLAY- I	-16.87	1	3.00	3.00
Clayey SAND-B	-22.87	13	6.00	78.00
CLAY-A II	-28.87	7	6.00	42.00
Clayey SAND-C	-43.87	20	15.00	300.00
Silty Sand- II	-48.87	30	5.00	150.00
Clayey Sand- I	-50.16	35	1.29	45.15
Total		14.8	43.17	638.79

## 7. P19 PIER

### 7.1 Quantity summary table

【 P19 PIER Quantity summary table (1/5) 】

Work Item	Item		Specification	Division	Unit	Quantity	Remark
Concrete	Reinforced Concrete Structure		$\sigma_{ck}=30\text{N/mm}^2$		m <sup>3</sup>	904.6	
Formwork	Reinforced Concrete Structure		normal form	$H \leq 30\text{m}$	m <sup>2</sup>	345.1	
			Plywood curved panel		"	256.2	
Bearing	Bearing Mortar		Non-shrinkage Mortar		m <sup>3</sup>	1.390	Superstructure construction
	Form for void for Anchor Bolt		Cylindrical mold $\phi 250$		m	18.0	
	Box-out Formwork				m <sup>2</sup>	12.6	
Falsework	Scaffolding (Hand rail precede type)		Average height	$H \leq 30\text{m}$	m <sup>2</sup>	833	
				$H > 30\text{m}$	"	—	
	Total					"	833
Supporting	Support (wedge type)	maximum height from the formation	Support capacity	Under 40kN/m <sup>2</sup>	m <sup>3</sup>	—	
				40kN/m <sup>2</sup> exceed			
				Under 80kN/m <sup>2</sup>	"	—	
				80kN/m <sup>2</sup> exceed	"	109	
	Total					"	109
Re-bar	Re-bar		SD345	D 13	kg	—	
				D16 ~ D25	"	60,837	
				D29 ~ D32	"	8,476	
				D 35	"	—	
				D 38	"	—	
				D 51	"	—	
				Total	"	69,313	
			SD390	D 38	"	62,399	
	Mechanical splice		SD345	D 35	Point	—	
				D 38	"	—	
				D 51	"	—	
				Total	"	—	
						SD390	D 38

【 P19 PIER Quantity summary table (2/5) 】

Work Item	Component	Division		Unit	Quantity	Remark			
Steel pipe foundation	Steel pipe well	Steel pipe length( $\phi 1200\text{mm}$ )		m/Number	53.5				
		Pile number		Number	30	Outside Steel Pipe Well			
				"	6	Diaphragm Steel Sheet Pipe Wall			
		Total		"	36				
		Pile extension		m	1,926.0				
		Embedded depth			m	41.8	Soil Coefficient=1.00		
		Number (Type A · D · E)	Steel pipe weight	$\phi 1200$	t=14mm	t	11.657	SKY400	
					t=14mm	"	3.681	SKY490	
					t=16mm	"	7.472	SKY400	
				$\phi 165.2$	t=11mm	"	4.330	STK400	
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
			Precut		"	2			
			Number (Type B · C · F)	Steel pipe weight	$\phi 1200$	t=14mm	t	11.657	SKY400
						t=14mm	"	3.681	SKY490
		t=16mm				"	7.472	SKY400	
		$\phi 165.2$			t=11mm	"	4.330	STK400	
		Accessories weight		Reinforcement Band	PL t= 9mm	t	0.080	SS400	
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400	
					PL t=16mm	"	—	SS400	
					Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400	
				In-situ Attached Interlocking		Point	2	STK400	
Precut		"		2					
Number (Type G)	Steel pipe weight	$\phi 1200$		t=14mm	t	11.657	SKY400		
				t=14mm	"	3.681	SKY490		
			t=16mm	"	7.472	SKY400			
		$\phi 165.2$	t=11mm	"	6.495	STK400			
	Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400			
		Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400			
			PL t=16mm	"	—	SS400			
			Sling	PL t=22mm	"	0.036	SM490A		
		Interlocking Toe	PL t=12mm	Piece	3	SS400			
		In-situ Attached Interlocking		Point	3	STK400			
	Precut		"	3					

【 P19 PIER Quantity summary table (3/5) 】

Work Item	Component	Division			Unit	Quantity	Remark	
Steel pipe foundation	Steel pipe well	1 number (Type H)	Steel pipe weight	φ 1200	t=14mm	t	11.657	SKY400
					t=14mm	"	3.681	SKY490
					t=16mm	"	7.472	SKY400
				φ 165.2	t=11mm	"	6.495	STK400
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400
					PL t=16mm	"	—	SS400
				Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	3	SS400
				In-situ Attached Interlocking		Point	3	STK400
		Precut		"	3			
		1 number (Type I)	Steel pipe weight	φ 1200	t=14mm	t	21.882	SKY400
					t=14mm	"	—	SKY490
					φ 165.2	t=11mm	"	4.330
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400
					PL t=16mm	"	—	SS400
				Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400
				In-situ Attached Interlocking		Point	2	STK400
			Precut		"	2		
		1 number (Type J)	Steel pipe weight	φ 1200	t=14mm	t	21.882	SKY400
					t=14mm	"	—	SKY490
					φ 165.2	t=11mm	"	4.330
			Accessories weight	Reinforcement Band	PL t= 9mm	t	0.080	SS400
				Members for Perimeter Field Welding (Backing Ring Stopper)	PL t=14mm	"	0.012	SS400
					PL t=16mm	"	—	SS400
				Sling	PL t=22mm	"	0.036	SM490A
				Interlocking Toe	PL t=12mm	Piece	2	SS400
				In-situ Attached Interlocking		Point	2	STK400
			Precut		"	2		
		All number	Steel pipe weight	φ 1200	t=14mm	t	481.002	SKY400
t=14mm	"				110.430	SKY490		
t=16mm	"				224.160	SKY400		
φ 165.2	t=11mm				"	160.210	STK400	
Accessories weight	Reinforcement Band		PL t= 9mm	t	2.880	SS400		
	Members for Perimeter Field Welding (Backing Ring Stopper)		PL t=14mm	"	0.432	SS400		
			PL t=16mm	"	—	SS400		
	Sling		PL t=22mm	"	1.296	SM490A		
	Interlocking Toe		PL t=12mm	Piece	74	SS400		
	In-situ Attached Interlocking			Point	74	STK400		
Precut			"	74				

【 P19 PIER Quantity summary table (4/5) 】

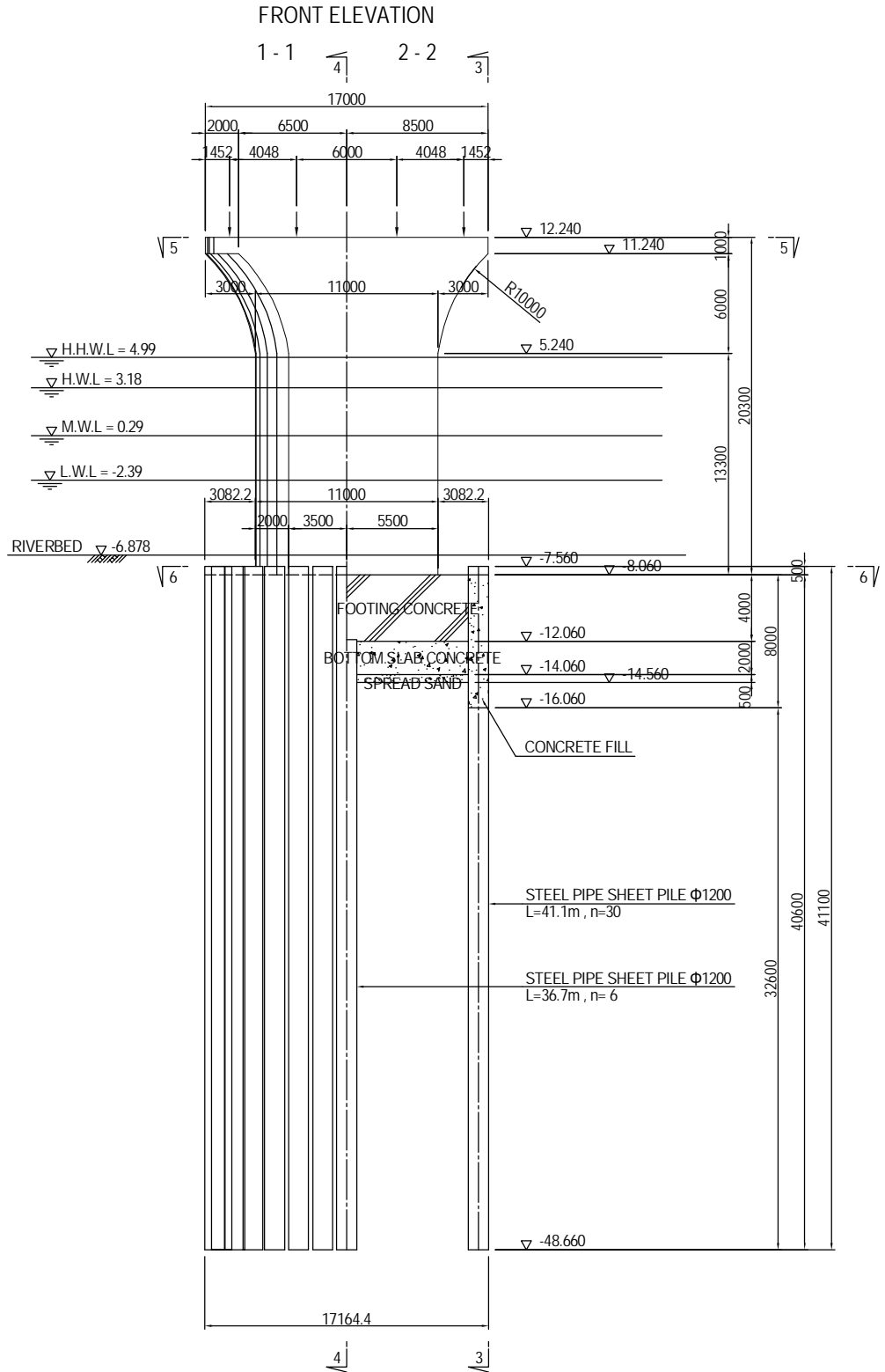
Work Item	Component	Division		Unit	Quantity	Remark	
S t e e l  P i p e  f o u n d a t i o n	Excavation inside			m3	311.5		
		Pile head		"	43.3		
	Concrete filling	Fill concrete	$\sigma_{ck}=21\text{N/mm}^2$		m3	282.3	Correction factor=0.04
		Pile head	$\sigma_{ck}=24\text{N/mm}^2$		"	8.1	
	Cleaning inside joint pipe			m	1,494.1		
	Mortar filling inside joint pipe	$\sigma_{ck}=21\text{N/mm}^2$	Mortar length		m	1,450.4	Mortar=2.5m <sup>3</sup> /100m
			Mortar quantity		m3	38.1	Correction factor=0.05
	Sealing inside joint pipe	$\sigma_{ck}=0.2\text{N/mm}^2$	Sealing length		m	378.0	Mortar=2.5m <sup>3</sup> /100m
			Sealing quantity		m3	10.8	Correction factor=0.14
			Sealing bag		m	756.0	Sealing 100m=200.0
	Excavation inside the well			m3	929.4		
	Backfill inside the well			m3	149.9		
	Surplus soil (waste soil)			m3	779.5		
	Footing concrete	$\sigma_{ck}=24\text{N/mm}^2$		m3	492.8		
	Bottom slab concrete	$\sigma_{ck}=21\text{N/mm}^2$		m3	253.8	Correction factor=0.09	
	Spread sand			m3	58.2		
	Pile head	Shear Connector	PL-32 × 16 × 3597		kg	174	
		Stopper	PL-25 × 9 × 50		"	3	
	Pile head Re-bar	Re-bar	SD345	D 13	kg	307	
				D16 ~ D25	"	-	
				D29 ~ D32	"	918.0	
				Total	"	1,225	
	Footing Re-bar	Re-bar	SD345	D 13	kg	—	
D16 ~ D25				"	7,614		
D29 ~ D32				"	12,134		
D 35				"	—		
D 38				"	—		
D 51				"	33,024		
Total				"	52,772		
Mechanical splice		SD345	D 38	Point	—		
			D 51	"	87		
	Total		"	87			

【 P19 PIER Quantity summary table (5/5) 】

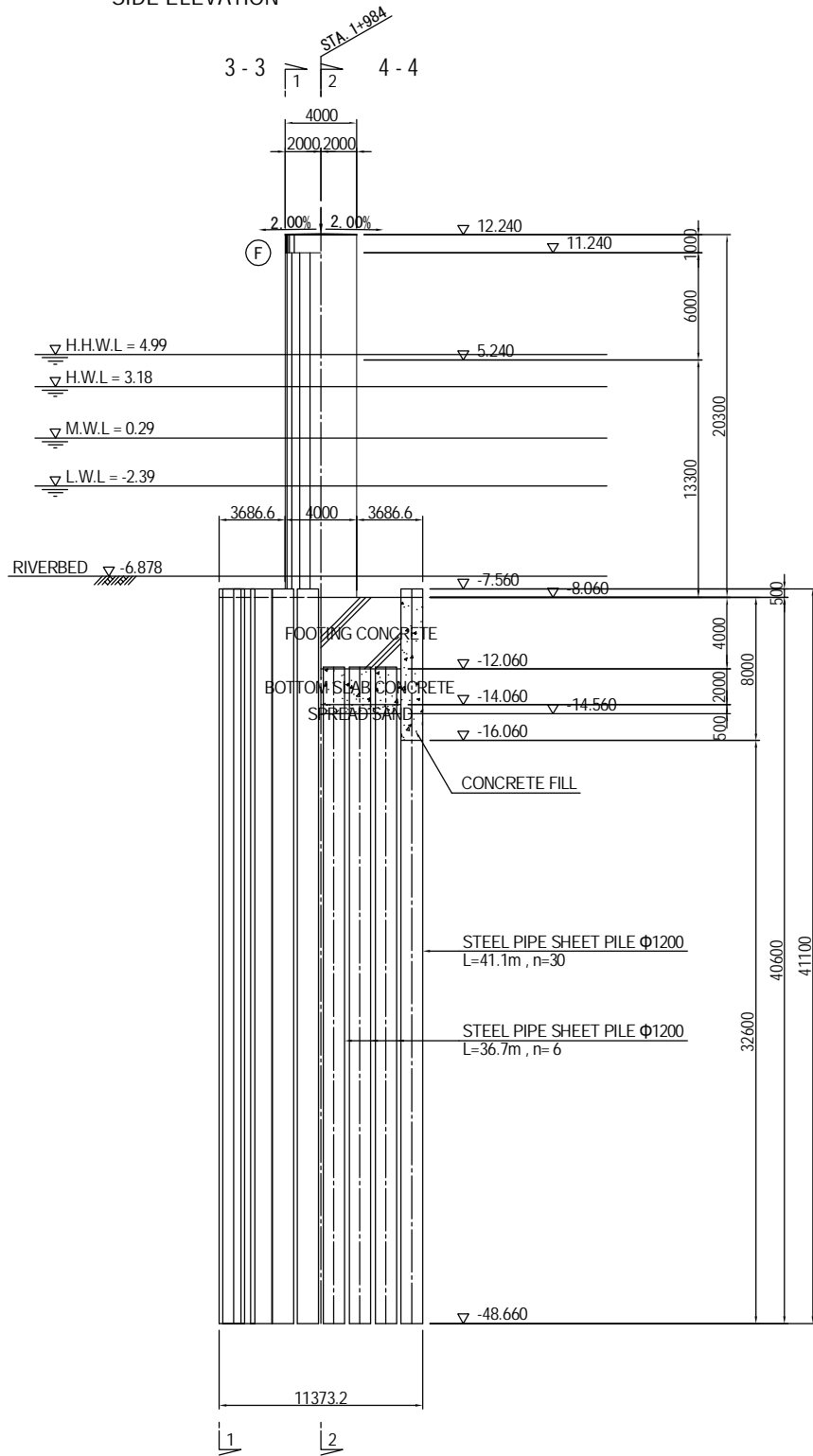
Work Item	Component	Division		Unit	Quantity	Remark		
S t e e l  p i p e  f o u n d a t i o n	Falsework (guide frame, wale, strut)	Guide frame	H-350 × 350 × 12 × 19	t	14.0			
		Guide pile	H-300 × 300 × 10 × 15	"	48.4			
		Support Beam of Guide frame	[-200 × 90 × 8 × 13.5	"	1.0			
		wale	H-300 × 300 × 10 × 15	t	10.3			
			H-350 × 350 × 12 × 19	"	—			
			H-400 × 400 × 13 × 21	"	18.8			
		strut	H-300 × 300 × 10 × 15	t	3.1			
			H-350 × 350 × 12 × 19	"	2.2			
			H-400 × 400 × 13 × 21	"	5.6			
		Pillar	H-300 × 300 × 10 × 15	t	2.7			
			H-350 × 350 × 12 × 19	"	2.0			
			H-400 × 400 × 13 × 21	"	5.1			
		Main component Total				t	49.8	SS400
		Sub component A				"	11.0	22%
	Sub component B				"	2.0	4%	
	Total				"	62.8		
	Concrete filling to space between	Falsework	$\sigma_{ck}=18N/mm^2$		m3	18.3	Correction factor=0.04	
		Formwork			m2	50.3		
	Welding of the dowel	Welding of the dowel stage			Stage	840		
		Welding of the dowel Weight			kg	8,248		
	Cut-off the pipe	$\phi 1200$			Number	36		



7.2 General arrangement

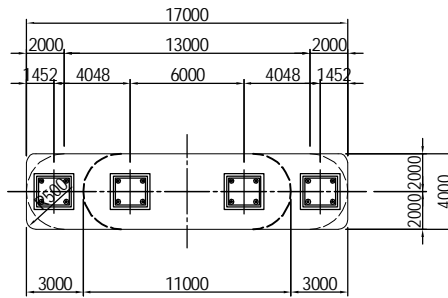


SIDE ELEVATION



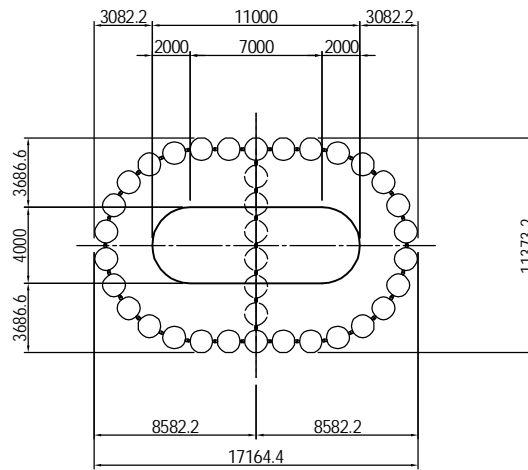
PLAN

5 - 5



PLAN

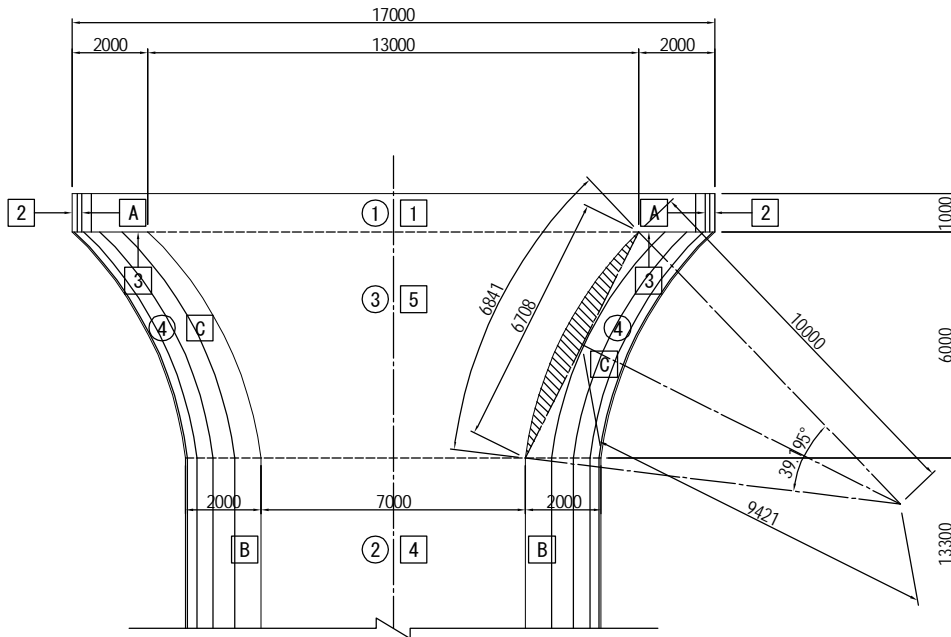
6 - 6



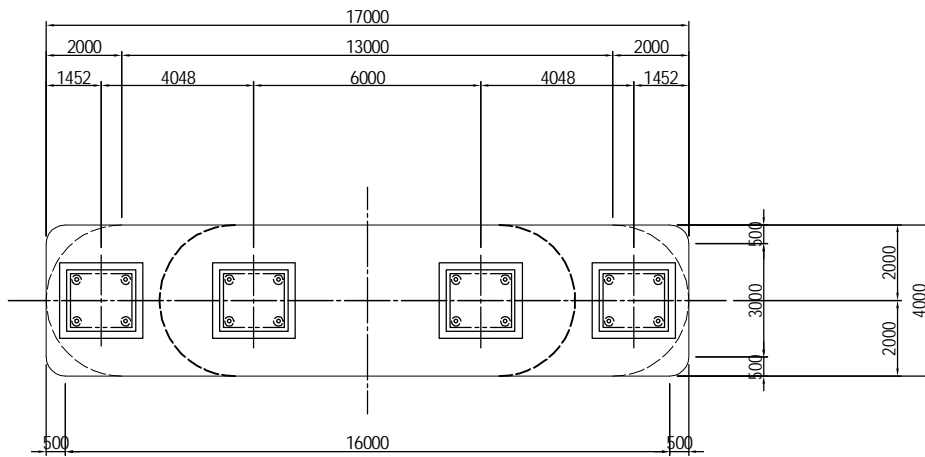
USE MATERIALS

	CONCRETE	BAR
BEAM	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD345
COLUMN	$\sigma_{ck} = 30 \text{ N/mm}^2$	SD390 • SD345
FOOTING	$\sigma_{ck} = 24 \text{ N/mm}^2$	SD345

SIDE ELEVATION



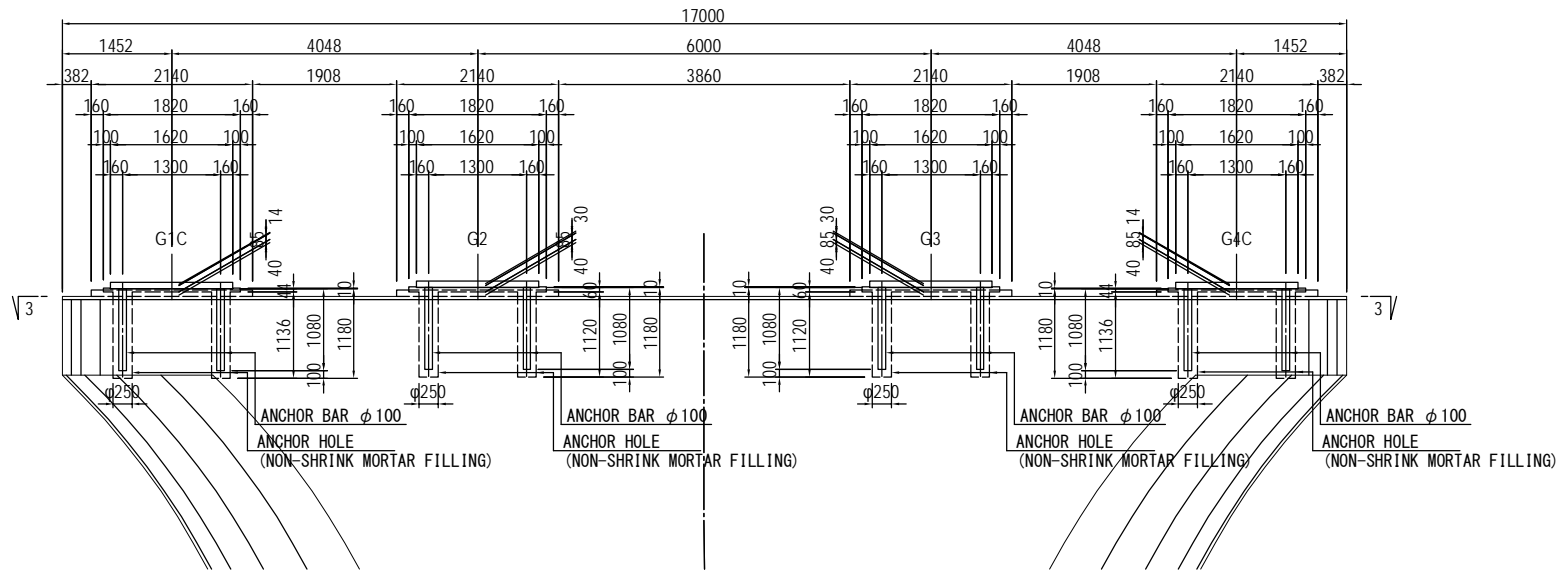
PLAN



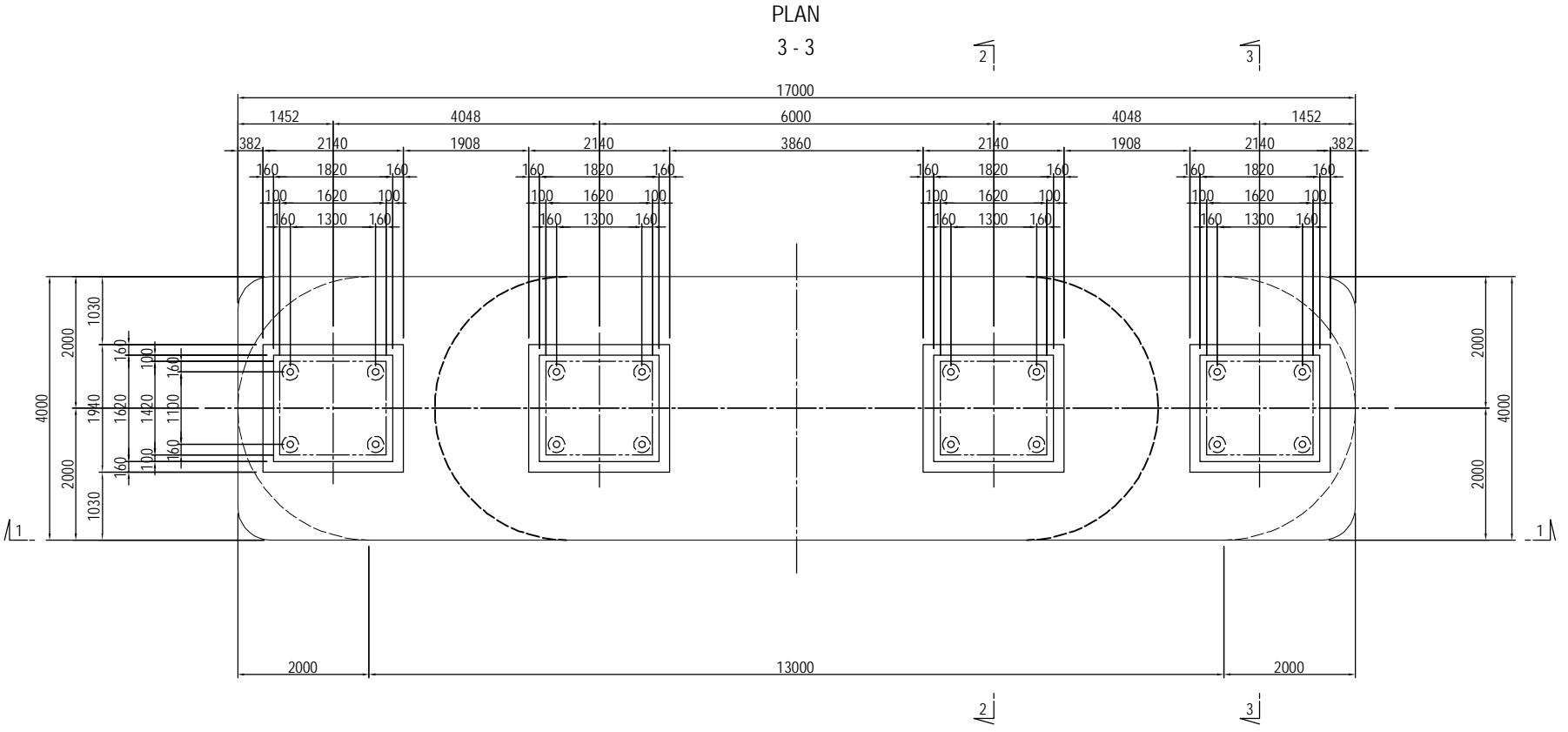
DETAIL OF BEARING AND ANCHOR

FRONT ELEVATION

1 - 1

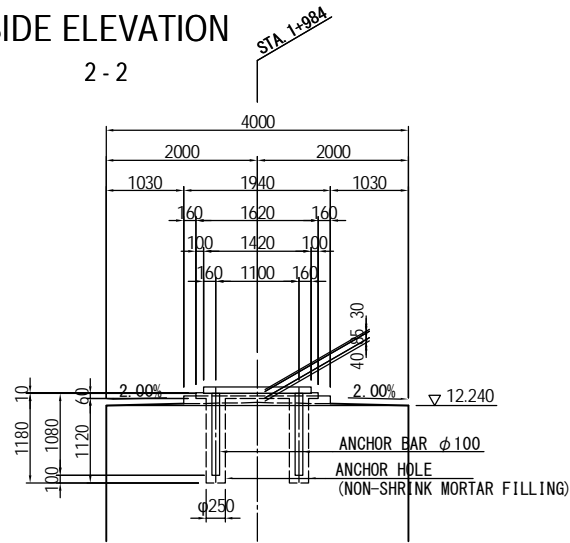


061  
-U01-



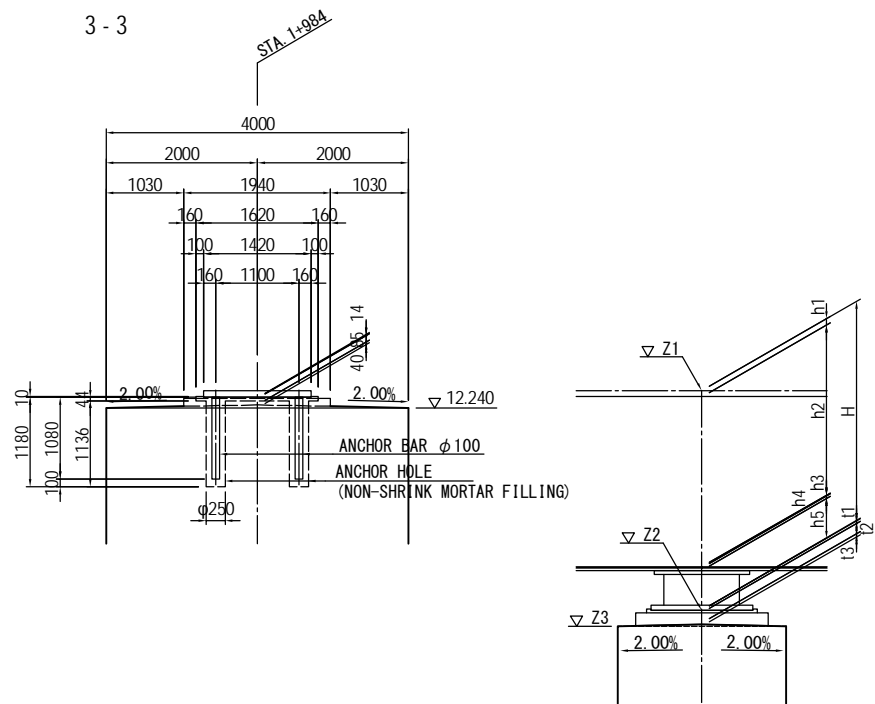
SIDE ELEVATION

2 - 2



SIDE ELEVATION

3 - 3



		P19 PIER			
		G1C	G2	G3	G4C
PROPOSED HEIGHT	Z1	15.617	15.698	15.698	15.617
PAVEMENT	h1	0.080	0.080	0.080	0.080
GIRDER	h2	2.709	2.790	2.790	2.709
BOTTOM FLANGE	h3	0.050	0.034	0.034	0.050
SOLE PLATE	h4	0.040	0.040	0.040	0.040
BEARING	h5	0.359	0.359	0.359	0.359
SUBTOTAL	H	3.238	3.303	3.303	3.238
ELEVATION OF BEARING BOTTOM	Z2	12.379	12.395	12.395	12.379
MORTAR	t1	0.014	0.030	0.030	0.014
BEARING BASE	t2	0.085	0.085	0.085	0.085
DRAINAGE INCLINE	t3	0.040	0.040	0.040	0.040
ELEVATION OF PIER TOP	Z3	12.240	12.240	12.240	12.240

### 7.3 Concrete

(1) Pier ( $\sigma_{ck} = 30\text{N/mm}^2$ )

#### 1) Top Beam

$$\textcircled{1} \quad 17.000 * 4.000 * 1.000 = 68.000 \text{ m}^3$$

#### Grade Concrete

$$1/2 * 2.000 * 0.040 * 17.000 * 2 = 1.360 \text{ ''}$$

#### Base Concrete

$$\text{G1} \sim \text{G4} \quad 2.140 * 1.940 * 0.085 * 4 = 1.412 \text{ ''}$$

#### Beam corner cut off

$$-(1.000 * 1.000 - \pi/4 * 1.000 * 1.000) * 1.000 = -0.215 \text{ ''}$$

---


$$\text{Top Beam total} = 70.557 \text{ m}^3$$

#### 2) Beam and Pier Column

##### 【 Cross section 】

$$\text{A} = \pi/4 * 4.000 * 4.000 + 7.000 * 4.000 = 40.566 \text{ m}^2$$

$$\textcircled{2} \quad 40.566 * 13.300 = 539.528 \text{ m}^3$$

$$\textcircled{3} \quad 1/2 * (7.000 + 13.000) * 6.000 * 4.000 = 240.000 \text{ ''}$$

$$\textcircled{4} \quad \pi/4 * 4.000 * 4.000 * 6.000 = 75.398 \text{ ''}$$

#### Subtraction of circular arc parts

$$-(\pi * 10.000 * 10.000 * 39.195 / 360 - 1/2 * 6.708 * 9.421) * 4.000 * 2 = -20.848 \text{ ''}$$

---


$$\text{Beam and Pier Column total} = 834.078 \text{ m}^3$$

---


$$\text{Pier total} = 904.635 \text{ m}^3$$



## 7.4 Formwork

### (1) Pier

【 Formwork Division 】 normal form

【 Structure Division 】 Reinforced Concrete Structure

【 height Division 】 [Average height ]  $H \leq 30m$

#### 1) Top Beam

$$\boxed{1} \quad 16.000 * 1.000 * 2 = 32.000 \text{ m}^2$$

$$\boxed{2} \quad 3.000 * 1.000 * 2 = 6.000 \text{ ''}$$

$$\boxed{3} \quad \left( 4.000 * 4.000 - \frac{\pi}{4} * 4.000 * 4.000 \right) - \left( 1.000 * 1.000 - \frac{\pi}{4} * 1.000 * 1.000 \right) = 3.219 \text{ ''}$$

#### Grade Concrete

$$1/2 * 2.000 * 0.040 * 2 * 2 = 0.160 \text{ ''}$$

#### Base Concrete

$$G1 \sim G4 \left( 2.140 + 1.940 \right) * 2 * 0.085 * 4 = 2.774 \text{ ''}$$

---


$$\text{Top Beam total} = 44.153 \text{ m}^2$$

#### 2) Beam and Pier Column

$$\boxed{4} \quad 7.000 * 13.300 * 2 = 186.200 \text{ m}^2$$

$$\boxed{5} \quad 1/2 * \left( 7.000 + 13.000 \right) * 6.000 * 2 = 120.000 \text{ ''}$$

#### Subtraction of circular arc parts

$$- \left( \pi * 10.000 * 10.000 * \frac{39.195}{360} - \frac{1}{2} * 6.708 * 9.421 \right) * 2 = -5.212 \text{ ''}$$

---


$$\text{Beam and Pier Column total} = 300.988 \text{ m}^2$$

---


$$\text{normal form total} = 345.141 \text{ m}^2$$

【 Structure Division 】 Reinforced Concrete Structure(Plywood curved panel)

1) Top Beam

<span style="border: 1px solid black; padding: 2px;">A</span>	$\pi$	*	1.000	*	1.000		=	<u>3.142 m2</u>
---	-------	---	-------	---	-------	--	---	-----------------

2) Beam and Pier Column

<span style="border: 1px solid black; padding: 2px;">B</span>	$\pi$	*	4.000	*	13.300		=	167.133 m2
---	-------	---	-------	---	--------	--	---	------------

<span style="border: 1px solid black; padding: 2px;">C</span>	$\pi$	*	4.000	*	6.841		=	85.967 "
---	-------	---	-------	---	-------	--	---	----------

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	Beam and Pier Column total	=	253.100 m2
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	Plywood curved panel total	=	256.242 m2
--	----------------------------	---	------------

7.5 Re-bar

Work Item	Item	Specification	Division	Unit	Quantity	Remark	
Re-bar	Re-bar	SD345	D 13	kg	—		
			D16~D25	D 16	"	2,360	
				D 19	"	—	
				D 22	"	58,477	
				D 25	"	—	
				Total	"	60,837	
				D29~D32	D 29	"	—
			D 32		"	8,476	
			Total		"	8,476	
			D 35	"	—		
			D 38	"	—		
			D 51	"	—		
			Total	"	69,313		
			SD390	D 38	"	62,399	
	Mechanical splice	SD345	D 35	Point	—		
			D 38	"	—		
			D 51	"	—		
			Total	"	—		
			SD390	D 38	"	580	

## 7.6 Bearing

### (1) Non-shrinkage Mortar

* G1&G4	t 1 = 24 mm												
Bearing	1.820	*	1.620	*	0.024			=	0.0708 m3				
Box-out	1.820	*	1.620	*	0.030			=	0.0885 "				
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.136	*	4	=	0.2231 "
Base pl	-	1.620	*	1.420	*	0.010						=	-0.0230 "
Anchor	-1/4	*	$\pi$	*	0.100	*	0.100	*	1.080	*	4	=	-0.0339 "
<hr/>													
									v1			=	0.3255 m3
* G2&G3	t 2 = 40 mm												
Bearing	1.820	*	1.620	*	0.040							=	0.1179 m3
Box-out	1.820	*	1.620	*	0.030							=	0.0885 "
Void	1/4	*	$\pi$	*	0.250	*	0.250	*	1.120	*	4	=	0.2199 "
Base pl	-	1.620	*	1.420	*	0.010						=	-0.0230 "
Anchor	-1/4	*	$\pi$	*	0.100	*	0.100	*	1.080	*	4	=	-0.0339 "
<hr/>													
									v2			=	0.3694 m3
V	=	0.3255	*	2	+	0.3694	*	2				=	<u>1.3898 m3</u>

### (2) Form for void for Anchor Bolt

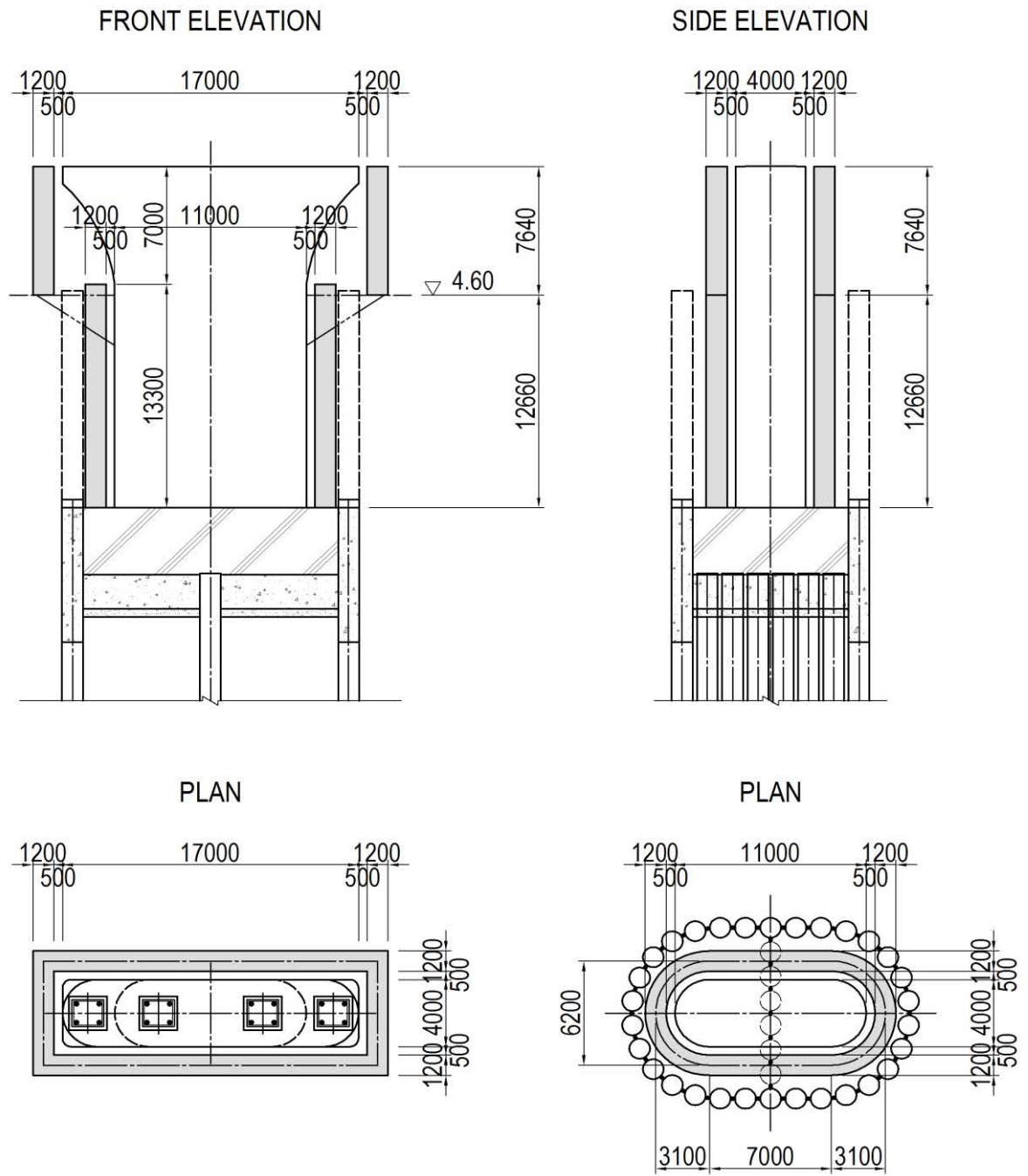
【 Cylindrical mol	$\phi$ = 250 mm												
L1	=	1.136	*	4	*	2						=	9.088 m
L2	=	1.120	*	4	*	2						=	8.960 "
<hr/>													
									$\Sigma L$			=	<u>18.048 m</u>

### (3) Form for box-out

$$A = \{ 2 * ( 1.820 + 1.620 ) * 0.030 + 1.820 * 1.620 \} * 4 = \underline{12.619 \text{ m}^2}$$

### 7.7 Falsework

(1) Scaffolding (Hand rail precede type)



【height Division】 [Average height] ----  $H \leq 30m$

1) Beam

(Falsework height) H1 = 7.640 m

$$W = \{ 2 * ( 17.000 + 4.000 ) + 8.800 \} * 7.640 = 388.11 \text{ m}^2$$

2) Pierstud

(Falsework height) H2 = 13.300 m

$$W1 = 7.000 * 13.300 * 2 = 186.20 \text{ m}^2$$

$$W2 = \pi * 6.200 * 13.300 = 259.06 \text{ ''}$$

---

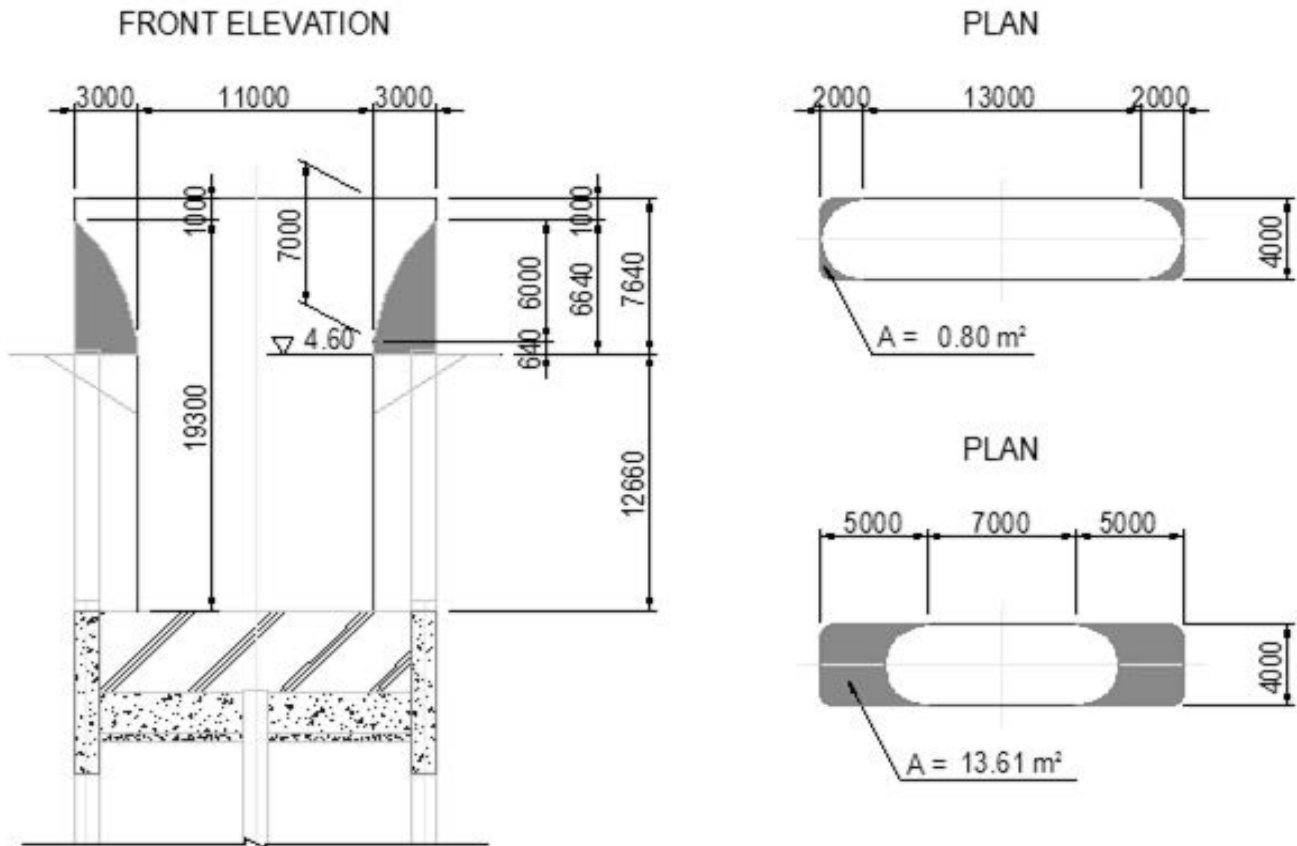

$$\text{Pierstud total} = 445.26 \text{ m}^2$$

---


$$\text{Scaffolding (Hand rail precede type) total} = 833.37 \text{ m}^2$$

## 7.8 Supporting

### (1) Support (wedge type)



【height Division】 [Average height] -----  $H \leq 30\text{m}$

[maximum height from the formation] -----  $H \leq 30\text{m}$

#### 【Average height】

$$H = \frac{1}{2} * ( 0.640 + 6.640 ) = \underline{\underline{3.640 \text{ m}}}$$

#### 【Support capacity】

$$\text{Average concrete } t = \frac{1}{2} * ( 100.0 + 700.0 ) = \underline{\underline{400.0 \text{ cm}}}$$

$$= 250\text{cm} < t$$

$$\text{Support capacity } \omega = 80\text{kN/m}^2 < \omega$$

#### 【Supporting area】

$$A1 = 13.61 * 2 = 27.22 \text{ m}^2$$

$$A2 = 0.80 * 4 = 3.20 \text{ m}^2$$

【Supporting vorum】

$$V1 = 27.22 * 0.640 = 17.42 \text{ m}^3$$

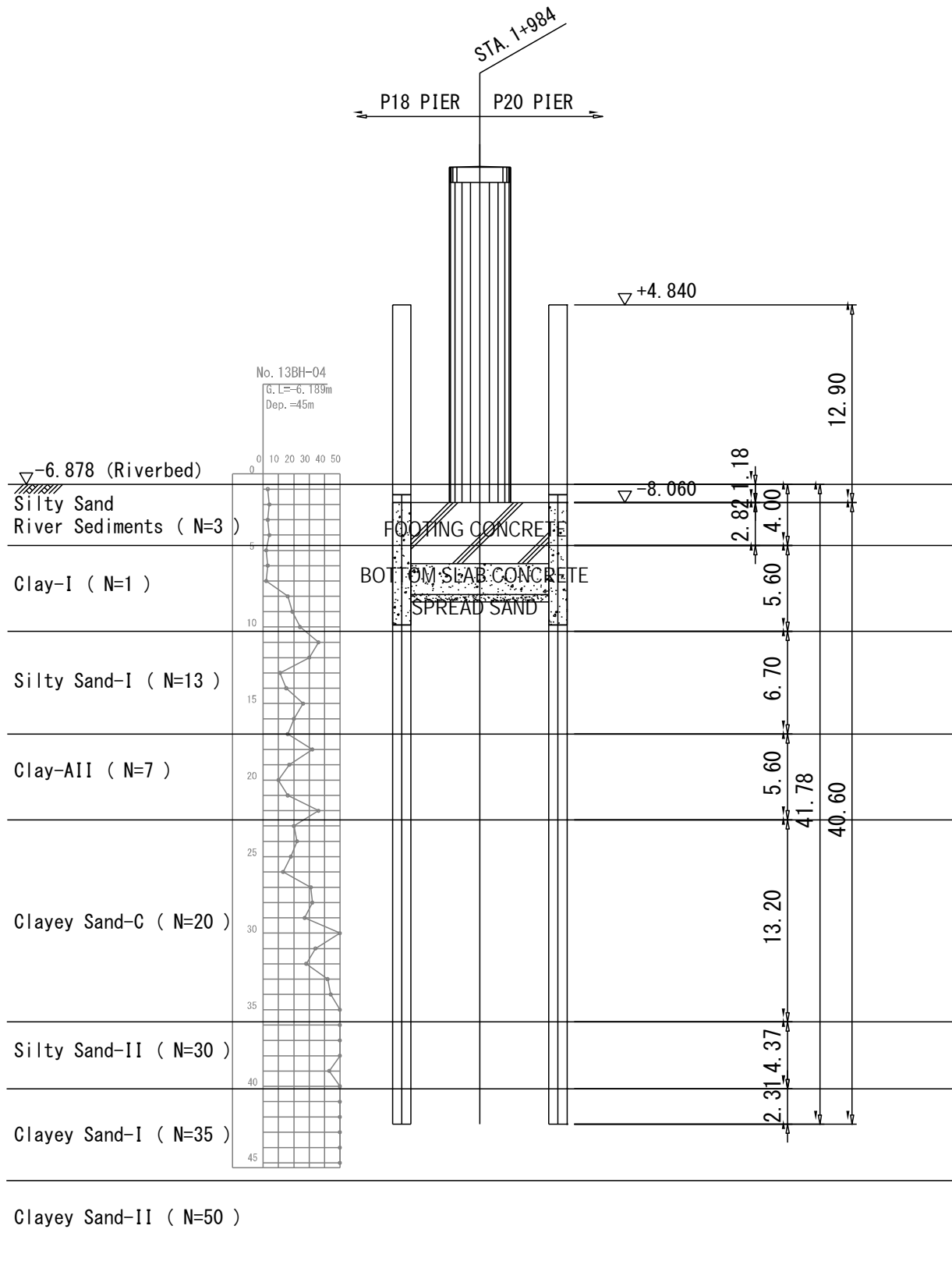
$$V2 = 1/2 * ( 27.22 + 3.20 ) * 6.000 = 91.26 \text{ ''}$$

---

$$\text{Supporting Total} = 108.68 \text{ m}^3$$



### 7.9 Foundation



1. ruler

Guide frame : 0.350 m (H-350 × 350 × 12 × 19)  
Weight : 135.0 kg/m

well Outside : 11.373 m (Bridge axial direction)  
well Outside : 17.164 m (Right angle direction)  
Steel pipe well : 1.200 m  
Mounting space : 0.030 m

Guide frame (Outside)

$$\begin{aligned} L1 &= ( 11.373 + 0.030 + 0.350 ) \times \pi &= & 36.923 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 &= & 11.582 \text{ m} \\ \text{Total} & &= & 48.505 \text{ m} \\ W1 &= 48.505 \times 135.0 &= & 6.548 \text{ t} \end{aligned}$$

Guide frame (Inside)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 ) \times \pi &= & 26.996 \text{ m} \\ L2 &= ( 17.164 - 11.373 ) \times 2 &= & 11.582 \text{ m} \\ \text{Total} & &= & 38.578 \text{ m} \\ W2 &= 38.578 \times 135.0 &= & 5.208 \text{ t} \end{aligned}$$

Guide frame (Diaphragm Wall)

$$\begin{aligned} L1 &= ( 11.373 - 1.200 \times 2 - 0.030 - 0.350 \times 2 ) \times 2 &= & 16.486 \text{ m} \\ W3 &= 16.486 \times 135.0 &= & 2.226 \text{ t} \end{aligned}$$

Total

$$W = W1 + W2 + W3 = 6.548 + 5.208 + 2.226 = 13.982 \text{ t}$$

Guide frame : 0.300 m (H-300 × 300 × 10 × 15)  
Weight : 93.0 kg/m  
Guide pile : 20.000 m

Guide pile

$$\begin{aligned} n1 &= 26 \text{ number} \\ W1 &= 26 \times 20.000 \times 93.0 = 48.360 \text{ t} \end{aligned}$$

2. Excavation inside

Steel pipe well : 1.200 m  
Steel pipe well area : 1.131 m<sup>2</sup>  
Steel pipe well number : 30 number (Circumference)  
Ground level : -6.878 m  
Footing Top : -8.060 m  
Footing : 4.000 m

$$\begin{aligned} \text{Excavation inside} &= 1.131 \times ( -6.878 - -8.060 + 4.000 \times 2 ) \times 30 \\ &= 311.5 \text{ m}^3 \end{aligned}$$

### 3. Concrete filling

Steel pipe well	:	1.200	m						
Steel pipe well area	:	1.131	m <sup>2</sup>						
Filled concrete	:	8.000	m						
Steel pipe well number	:	30	number	(Circumference)					
Concrete filling	=	1.131	×	8.000	×	30	=	271.4	m <sup>3</sup>
Consumption	=	271.4	×	( 1 + K )	=	282.3	m <sup>3</sup>		
(K: Correction factor	=	0.04	)						

### 4. Cleaning inside joint pipe

Ground level	:	-6.878	m				
Steel pipe well Top	:	4.840	m				
Steel pipe well	:	53.500	m				
Steel pipe well Bottom	:	-48.660	m				
Nothing inside joint pip	:	1.400	m	(Steel pipe well Bottom)			
Inside joint pipe	:	37	number	(Circumference + Diaphragm Wall)			
Cleaning inside joint pipe	=	( -6.878 - -48.660 - 1.400 )	×	37	=	1494.1	m

### 5. Mortar filling inside joint pipe

Footing Top	:	-8.060	m				
Steel pipe well Top	:	4.840	m				
Steel pipe well	:	53.500	m				
Steel pipe well Bottom	:	-48.660	m				
Nothing inside joint pip	:	1.400	m	(Steel pipe well Bottom)			
Inside joint pipe	:	37	number	(Circumference + Diaphragm Wall)			
inside joint pipe area	:	0.025	m <sup>2</sup>	( $\phi$ 165.2*t11)			
Mortar length	=	( -8.060 - -48.660 - 1.400 )	×	37	=	1450.4	m
Mortar quantity	=	1450.4	×	0.025	=	36.3	m <sup>3</sup>
Consumption	=	36.3	×	( 1 + K )	=	38.1	m <sup>3</sup>
(K: Correction factor	=	0.05	)				

### 6. Sealing inside joint pipe

Footing Top	:	-8.060	m				
Steel pipe well Top	:	4.840	m				
Nothing inside joint pip	:	0.300	m	(Steel pipe well Bottom)			
Steel pipe well Top	:	30	number	(Circumference)			
Sealing length	=	( 4.840 - -8.060 - 0.300 )	×	30	=	378.0	m
Sealing quantity	=	378.0	×	0.025	=	9.5	m <sup>3</sup>
Consumption	=	9.5	×	( 1 + K )	=	10.8	m <sup>3</sup>
(K: Correction factor	=	0.14	)				
Sealing bag	=	378.0	×	2	=	756.0	m

## 7. Excavation inside the well

### (1) Excavation

well Outside	:	11.373 m	(Bridge axial direction)
well Outside	:	17.164 m	(Right angle direction)
Steel pipe well	:	1.200 m	
Steel pipe well area	:	1.131 m <sup>2</sup>	
Steel pipe well	:	30 number	(Circumference)
Steel pipe well	:	6 number	(Diaphragm Wall)

$$\begin{aligned} \text{Inside the well area} &= (11.373 - 1.200)^2 \times \pi / 4 \\ &+ (17.164 - 11.373) \times (11.373 - 1.200) \\ &- 1.131 \times 30 / 2 \\ &= 123.2 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Diaphragm Wall area} &= 1.131 \times 6 = 6.8 \text{ m}^2 \\ &= 123.2 - 6.8 \\ &= 116.4 \end{aligned}$$

Ground level	:	-6.878 m
Footing Top	:	-8.060 m
Footing	:	4.000 m
Bottom slab	:	2.000 m
Spread sand	:	0.500 m

$$\begin{aligned} &= 123.2 \times (-6.878 - -8.060 + 4.000) \\ &+ 116.4 \times (2.000 + 0.500) \\ &= 929.4 \text{ m}^3 \end{aligned}$$

### (2) Backfill inside the well

Pier	:	4.000 m	(Bridge axial direction)
	:	11.000 m	(Right angle direction)

$$\begin{aligned} \text{Pier area} &= (4.000)^2 \times \pi / 4 + (11.000 - 4.000) \times 4.000 \\ &= 40.6 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Inside the well area} &= (11.373)^2 \times \pi / 4 + (17.164 - 11.373) \times 11.373 \\ &= 167.4 \text{ m}^2 \end{aligned}$$

$$\text{Backfill} = (167.4 - 40.6) \times (-6.878 - -8.060) = 149.9 \text{ m}^3$$

### (3) Surplus soil (waste soil)

$$\text{Surplus soil} = 929.4 - 149.9 = 779.5 \text{ m}^3$$

## 8. Footing concrete

Inside the well area	:	123.2 m <sup>2</sup>
Footing	:	4.000 m

$$\text{Footing concrete} = 123.2 \times 4.000 = 492.8 \text{ m}^3$$

### 9. Bottom slab concrete

Inside the well area	:	116.4	m <sup>2</sup>		
Bottom slab	:	2.000	m		
Bottom slab concrete	=	116.4	×	2.000	= 232.8 m <sup>3</sup>
Consumption	=	232.8	×	( 1 + K )	= 253.8 m <sup>3</sup>
(K: Correction factor	=	0.09	)		

### 10. Spread sand

Inside the well area	:	116.4	m <sup>2</sup>		
Spread sand	:	0.500	m		
Spread sand	=	116.4	×	0.500	= 58.2 m <sup>3</sup>

### 11. Welding of the dowel

Steel pipe well	:	30	number	(Circumference)	
Moment Re-bar	:	10	Stage		
Shearforce Re-bar	:	18	Stage		
Welding of the dowel	=	30	×	( 10 + 18 )	
	=	840	Stage		

### 12. Pile head

Steel pipe well	:	1.200	m			
Steel pipe well area	:	1.131	m <sup>2</sup>			
Steel pipe well	:	6	number	(Diaphragm Wall)		
Filled concrete	:	1.300	m	(Subtraction of imbedding)	: 1.200 m	
Ground level	:	-6.878	m			
Footing Bottom	:	-12.060	m			
Excavation inside	=	1.131	×	( -6.878 - -12.060 + 1.200 )	×	6
	=	43.3	m <sup>3</sup>			
Concrete filling	=	1.131	×	1.200	×	6
	=	8.1	m <sup>3</sup>			

### 13. Cut-off the pipe

Steel pipe well	:	30	number	(Circumference)		
		6	number	(Diaphragm Wall)		
Steel pipe well Top	:	4.840	m			
Cut-off Position	:	-7.560	m			
	:	-11.960	m			
Cut-off	=	4.840	-	-7.560	= 12.400 m	(Circumference)
	=	4.840	-	-11.960	= 16.800 m	(Diaphragm Wall)

14. Falsework

1st stage : 0.350 m (H-350 × 350 × 12 × 19)  
 2nd stage : 0.400 m (2H-400 × 400 × 13 × 21)  
 3rd,4th stage : 0.300 m (H-300 × 300 × 10 × 15)

Strut of the 1st stag : 2 number Pillar : 8 number  
 Strut of the 2nd stag : 4 number Pillar : 16 number  
 Strut of the 3rd stag : 2 number Pillar : 8 number  
 Strut of the 4th stag : 2 number Pillar : 8 number

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Mounting space : 0.030 m

wale(wale(guide) of the 1st stage)

1st stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 ) × π = 26.996 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 ) × 2 = 16.486 m  
 Total = 55.064 m

2nd stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 ) × π = 26.839 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 ) × 2 = 16.286 m  
 Total = 54.707 m

3rd,4th stage = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 ) × π = 27.153 m  
 = ( 17.164 - 11.373 ) × 2 = 11.582 m  
 = ( 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 ) × 2 = 16.686 m  
 Total = 55.421 m

Strut

L1= 11.373 - 1.200 × 2 - 0.030 - 0.350 × 2 = 8.243 m  
 L2= 11.373 - 1.200 × 2 - 0.030 - 0.400 × 2 = 8.143 m  
 L3= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m  
 L4= 11.373 - 1.200 × 2 - 0.030 - 0.300 × 2 = 8.343 m

Pillar スパン: 1.3 m

L1= 1.300 × 1.414 = 1.838 m  
 L2= 1.300 × 1.414 = 1.838 m  
 L3= 1.300 × 1.414 = 1.838 m  
 L4= 1.300 × 1.414 = 1.838 m

15. Concrete filling to space between steel pipe well and wale

well Outside : 11.373 m (Bridge axial direction)  
 well Outside : 17.164 m (Right angle direction)  
 Steel pipe well : 1.200 m  
 Steel pipe well : 30 number

1st stage : 0.350 m  
 2nd stage : 0.400 m  
 3rd,4th stage : 0.300 m

$$\begin{aligned}
 \text{1st stage} &= 11.373^2 \times \pi/4 + (17.164 - 11.373) \times 11.373 \\
 &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\
 &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\
 &\quad - 1.200^2 \times \pi/4 \times 30 \\
 &= 18.3 \text{ m}^2
 \end{aligned}$$

$$\begin{aligned}
 \text{2nd,3rd,4th stage} &= (11.373 - 1.200)^2 \times \pi/4 \\
 &\quad + (17.164 - 11.373) \times (11.373 - 1.200) \\
 &\quad - (11.373 - 1.200 \times 2)^2 \times \pi/4 \\
 &\quad - (17.164 - 11.373) \times (11.373 - 1.200 \times 2) \\
 &\quad - 1.200^2 \times \pi/4 \times 30 \quad / \quad 2 \\
 &= 8.0 \text{ m}^2
 \end{aligned}$$

$$\begin{aligned}
 \text{1st stage} &= 18.3 \times 0.350 \times 1 = 6.4 \text{ m}^3 \\
 \text{2nd stage} &= 8.0 \times 0.400 \times 2 = 6.4 \text{ m}^3 \\
 \text{3rd stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3 \\
 \text{4th stage} &= 8.0 \times 0.300 \times 1 = 2.4 \text{ m}^3
 \end{aligned}$$

---


$$\text{Total} = 17.6 \text{ m}^3$$

$$\begin{aligned}
 \text{Consumption} &= 17.6 \times (1 + K) = 18.3 \text{ m}^3 \\
 (\text{K: Correction factor} &= 0.04)
 \end{aligned}$$

$$\text{Formwork} = 18.3 \times 1 + 8.0 \times 4 = 50.3 \text{ m}^2$$

16. Quantity Tabel

(1) Steel pipe well

Type: A,D,E 14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	18.5 m	7.567	1	7.567 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.330 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	16.8 m	0.702	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: B,C,F 14 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	17.5 m	7.158	1	7.158 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.330 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	15.8 m	0.660	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type: G 1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	2.0 m	0.818	1	0.818 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	18.5 m	7.567	1	7.567 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	3	6.495 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	16.8 m	0.702	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	



Type:H 1 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	8.0 m	3.272	1	3.272 t
	SKY490	φ 1200 t= 14	0.409	9.0 m	3.681	1	3.681 t
	SKY400	φ 1200 t= 16	0.467	16.0 m	7.472	1	7.472 t
	SKY400	φ 1200 t= 14	0.409	3.0 m	1.227	1	1.227 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	17.5 m	7.158	1	7.158 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	3 piece	0.006	1	3 piece
Precut				3 point		1	3 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	3	6.495 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	15.8 m	0.660	3	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	3	

Type:I 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	35.0 m	14.315	1	14.315 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	18.5 m	7.567	1	7.567 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	34.4 m	1.438	2	4.330 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	16.8 m	0.702	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Type:J 3 set

Name	Materials	Shape (mm)	Unit Weight (t/m)	Quantity of One point	Weight of One point	Point	Weight of One number
Top Steel pipe well	SKY400	φ 1200 t= 14	0.409	36.0 m	14.724	1	14.724 t
Bottom Steel pipe well	SKY400	φ 1200 t= 14	0.409	17.5 m	7.158	1	7.158 t
Reinforcement Band	SS400	PL 300 × 9 × 3798	0.080	1 piece	0.080	1	0.080 t
Membars for Perimeter Field Welding (Backing Ring Stopper)	SS400	PL 70 × 6 × 3663	0.012	1 piece	0.012	1	0.012 t
	SS400	PL 6 × 12 × 30	0.000	8 piece	0.000	1	0.000 t
Sling①	SM490A	PL 200 × 22 × 150	0.005	2 piece	0.010	1	0.010 t
Sling②	SM490A	PL 300 × 22 × 250	0.013	2 piece	0.026	1	0.026 t
Interlocking Toe	SS400	PL 153 × 12 × 159	0.002	2 piece	0.004	1	2 piece
Precut				2 point		1	2 point
Top Interlocking	STK400	φ 165.2 t= 11	0.0418	35.4 m	1.480	2	4.330 t
Bottom Interlocking	STK400	φ 165.2 t= 11	0.0418	15.8 m	0.660	2	
In-situ Attached Interlocking	STK400	φ 165.2 t= 11	0.0418	0.6 m	0.025	2	

Total	φ 1200	t= 14mm	( SKY400 )	481.002 t
	φ 1200	t= 14mm	( SKY490 )	110.430 t
	φ 1200	t= 16mm	( SKY400 )	224.160 t
	φ 165.2	t= 11mm	( STK400 )	160.210 t
	Reinforcement Band		( SS400 )	2.880 t
	Members for Perimeter Field Welding (Backing Ring Stopper)		( SS400 )	0.432 t
	Stopper		( SS400 )	288 piece
	Sling①		( SM490A )	0.360 t
	Sling②		( SM490A )	0.936 t
	Interlocking Toe		( SS400 )	74 piece
	Precut			74 point
	In-situ Attached Interlocking			74 point

(2) Supporting

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
Guide frame							
	H-350 × 350 × 12 × 19	48.505	1	135.0	6,548	SS400	Outside
	H-350 × 350 × 12 × 19	38.578	1	135.0	5,208	SS400	Inside
	H-350 × 350 × 12 × 19	16.486	1	135.0	2,226	SS400	Diaphragm Wall
				Total	13,982		
Guide pile							
	H-300 × 300 × 10 × 15	20.000	26	93.0	48,360	SS400	
Support Beam of Guide frame							
	[-200 × 90 × 8 × 13.5	2.530	13	30.3	997	SS400	
wale(wale(guide) of the 1st stage)							
	H-400 × 400 × 13 × 21	54.707	2	172.0	18,819	SS400	2nd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	3rd stage
	H-300 × 300 × 10 × 15	55.421	1	93.0	5,154	SS400	4th stage
strut							
	H-350 × 350 × 12 × 19	8.243	2	135.0	2,226	SS400	1st stage
	H-400 × 400 × 13 × 21	8.143	4	172.0	5,602	SS400	2nd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	3rd stage
	H-300 × 300 × 10 × 15	8.343	2	93.0	1,552	SS400	4th stage
Pillar							
	H-350 × 350 × 12 × 19	1.838	8	135.0	1,985	SS400	1st stage
	H-400 × 400 × 13 × 21	1.838	16	172.0	5,058	SS400	2nd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	3rd stage
	H-300 × 300 × 10 × 15	1.838	8	93.0	1,367	SS400	4th stage
					Main component	49,836 kg	
					Sub component (A)	10,964 kg	Main component × 0.22
					Sub component (B)	1,993 kg	Main component × 0.04

(3) Connection between steel pipe sheet pile and footing

Type	Steel	Length (m)	Unit	Unit Weight	Weight (kg)	Remark
Moment Re-bar						
P1	D22	1.000	600	3.04	1,824	SD345
P2	D22	1.000	600	3.04	1,824	SD345
Shearforce Re-bar						
P3	D22	0.700	1080	3.04	2,300	SD345
P4	D22	0.700	1080	3.04	2,300	SD345
					Total	8,248 kg

(4) Pile head

Type	Specification	Length (m)	Unit	Unit Weight	Weight (kg)	Remark	memo
filled Re-bar							
	D29	2.530	72	5.04	918	SD345	
Tie hoop							
	D13	4.560	48	0.995	218	SD345	
Erection bar							
	D13	3.720	24	0.995	89	SD345	
					Total	1,225 kg	
Shear Connector							
	PL-32 × 16	3.597	12	4.02	174	SS400	
Stopper							
	PL-25 × 9	0.050	36	1.77	3	SS400	
					Total	177 kg	
					Total	1,402 kg	

(5) Others

Type	Item	Unit	Quantity	Remark	memo
<b>Concrete</b>					
	Concrete filling	(m <sup>3</sup> )	282.3	$\sigma_{ck}=21\text{N/mm}^2$	
	Concrete filling (Pile head)	(m <sup>3</sup> )	8.1	$\sigma_{ck}=24\text{N/mm}^2$	
	Concrete filling to space between steel pipe well and wale	(m <sup>3</sup> )	18.3	$\sigma_{ck}=18\text{N/mm}^2$	
	Formwork	(m <sup>2</sup> )	50.3		
	Footing concrete	(m <sup>3</sup> )	492.8	$\sigma_{ck}=24\text{N/mm}^2$	
	Bottom slab concrete	(m <sup>3</sup> )	253.8	$\sigma_{ck}=21\text{N/mm}^2$	
	Spread sand	(m <sup>3</sup> )	58.2		
<b>Mortar filling inside</b>					
	Mortar filling inside joint pipe	(m <sup>3</sup> )	38.1	$\sigma_{ck}=21\text{N/mm}^2$	
	Sealing inside joint pipe	(m <sup>3</sup> )	10.8	$\sigma_{ck}=0.2\text{N/mm}^2$	
	Sealing bag	(m)	756.0		
<b>Excavation</b>					
	Excavation inside the well	(m <sup>3</sup> )	929.4		1284.2
	Excavation inside	(m <sup>3</sup> )	311.5		
	Excavation inside (Pile head)	(m <sup>3</sup> )	43.3		
	Cleaning inside joint pipe	(m)	1,494.1		
	Backfill inside the well	(m <sup>3</sup> )	149.9		149.9
	Surplus soil (waste soil)	(m <sup>3</sup> )	779.5		1134.3

(6) Footing Re-bar

Type	Item	Specification	Division	Unit	Quantity	Remark	
Footing Re-bar	Re-bar	SD345	D 13		kg	—	
			D16~D25	D 16	"	4,498	
				D 19	"	—	
				D 22	"	3,116	
				D 25	"	—	
				Total	"	7,614	
			D29~D32	D 29	"	—	
				D 32	"	12,134	
				Total	"	12,134	
					D 35	"	—
			D 38	"	—		
			D 51	"	33,024		
			Total	"	52,772		
	Mechanical splice	SD345	D 38		Point	—	
			D 51		"	87	
Total			"	87			

17. Road Average N-value

Soil Coefficient : 1.00

Stratum	Formation (m)	N-value	Thickness of Stratum (m)	L × N
Ground level	-6.878	-		
Silty Sand River Sediments	-10.88	3	4.00	12.00
CLAY- I	-16.48	1	5.60	5.60
Silty Sand- I	-23.18	13	6.70	87.10
CLAY-A II	-28.78	7	5.60	39.20
Clayey SAND-C	-41.98	20	13.20	264.00
Silty Sand- II	-46.35	30	4.37	131.10
Clayey Sand- I	-48.66	35	2.31	80.85
Total		14.8	41.78	619.85

## 8. P13 PIER (Mortar of Bearing)

### 8.1 Quantity Summary Table

【 P13 Pier Quantity Summary Table 】

Work Item	Item	Specification	区分	unit	Quantity	Remark
Bearing	Bearing Mortar	Non-shrinkage Mortar		m3	0.460	incl. steel box girder bearing work (Pkg-2)
	Form for void for Anchor Bolt	Cylindrical mold	$\phi = 150\text{mm}$	m	8.6	by Pkg-1
	Box-out Formwork	Box-out Formwork		m2	5.0	by Pkg-1

## 8.2 Bearing Work

### (1) Non-shrinkage Mortar

* G1C&G4C	t 1 = 48 mm								
Bearing	1.160	*	0.960	*	0.048			=	0.0535 m3
Box-out	1.160	*	0.960	*	0.030			=	0.0334 "
Void	1/4 * π	*	0.150	*	0.150	*	0.540	*	4 = 0.0382 "
base plate	- 1.060	*	0.860	*	0.010			=	-0.0091 "
anchor	-1/4 * π	*	0.050	*	0.050	*	0.500	*	4 = -0.0039 "
								v1	= 0.1121 m3
* G2&G3	t 1 = 54 mm								
Bearing	1.160	*	0.960	*	0.054			=	0.0601 m3
Box-out	1.160	*	0.960	*	0.030			=	0.0334 "
Void	1/4 * π	*	0.150	*	0.150	*	0.530	*	4 = 0.0375 "
Base pl	- 1.060	*	0.860	*	0.010			=	-0.0091 "
Anchor	-1/4 * π	*	0.050	*	0.050	*	0.500	*	4 = -0.0039 "
								v2	= 0.1180 m3
V	=	0.1121	*	2	+	0.118	*	2	= 0.4602 m3

### (2) form for void for anchor bolt

【 cylindrical mol	φ = 150 mm								
L	=	0.540	*	4	*	2	+		= 8.560 m
		0.530	*	4	*	2			

### (3) Form for box-out

A	=	{ 2 * ( 1.160 + 0.960 ) * 0.030 + 1.160	*	0.960	} * 4	=	4.963 m2
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9. P20 PIER (Mortar of Bearing)

9.1 Quantity Summary Table

【 P20 Pier Quantity Summary Table 】

Work Item	Item	Specification	区分	unit	Quantity	Remark
Bearing	Bearing Mortar	Non-shrinkage Mortar		m3	0.642	considered by steel box girder's bearing work (Pkg-2)
	Form for void for Anchor Bolt	Cylindrical mold	$\phi = 150\text{mm}$	m	8.4	considered by PC Box Girder of Pkg-2
	Box-out Formwork	Box-out Formwork		m2	7.2	

## 9.2 Bearing Work

### (1) Non-shrinkage Mortar

* G1C&G4C	t 1 = 56 mm												
Bearing	1.540	*	1.070	*	0.056			=	0.0923 m3				
Box-out	1.540	*	1.070	*	0.030			=	0.0494 "				
Void	1/4	*	$\pi$	*	0.150	*	0.150	*	0.524	*	4	=	0.0370 "
base plate	-	1.430	*	0.960	*	0.010						=	-0.0137 "
anchor	-1/4	*	$\pi$	*	0.050	*	0.050	*	0.500	*	4	=	-0.0039 "
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									v1			=	0.1611 m3
* G2&G3	t 1 = 55 mm												
Bearing	1.540	*	1.070	*	0.055							=	0.0906 m3
Box-out	1.540	*	1.070	*	0.030							=	0.0494 "
Void	1/4	*	$\pi$	*	0.150	*	0.150	*	0.525	*	4	=	0.0371 "
Base pl	-	1.430	*	0.960	*	0.010						=	-0.0137 "
Anchor	-1/4	*	$\pi$	*	0.050	*	0.050	*	0.500	*	4	=	-0.0039 "
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									v2			=	0.1595 m3
V	=	0.1611	*	2	+	0.160	*	2				=	<u>0.6422 m3</u>

### (2) form for void for anchor bolt

【 cylindrical mol	$\phi$ = 150 mm												
L	=	0.524	*	4	*	2	+					=	<u>8.392 m</u>
		0.525	*	4	*	2							

### (3) Form for box-out

A	=	{ 2 * ( 1.540 + 1.070 ) * 0.030	+	1.540	*	1.070	} * 4	=	<u>7.218 m2</u>
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