

§§ 2 . A-LINE - 2 B.R

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A1 - ABUTMENT



Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit Weight (K/m)	Total Weight (K)	Shape (cm)
P 1	Φ 16	2.96	42	124.32	1.58	196	16 200
2	"	2.96	77	227.92	"	360	16 200
3	"	2.50	16	40.00	"	63	18 200
4	Φ 12	9.96	18	179.28	0.888	159	996
5	"	1.46	4	5.84	"	5	16 200
A 1	Φ 16	9.96	44	438.24	1.58	692	996
2	"	9.96	42	418.32	"	661	996
3	"	12.30	41	504.30	"	797	130 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000
4	"	11.27	37	416.99	"	659	130 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000
5	"	2.54	41	104.14	"	165	25 104
6	"	2.65	39	103.35	"	163	20 104
7	"	3.04	29	88.16	"	139	20 104



Bar Mark	Type Size	length +laps (m)	NO	Total length (m)	Unit Weight (Kg/m)	Total Weight (kg)	Shape (cm)
B 1	Φ32	14.36	6	86.16	631	544	
1	"	12.46	4	49.84	"	314	
3	"	8.00	2	16.00	"	101	
4	"	6.20	4	24.80	"	156	
5	"	4.50	4	18.00	"	114	
6	Φ16	4.20	148	621.60	1.58	982	
7	"	10.27	36	369.72	"	584	
8	"	3.60	88	316.80	"	501	
9	"	2.25	140	315.00	"	498	
10	"	1.92	88	256.96	"	406	
11	"	1.45	74	107.30	"	170	
12	Φ10	0.64	22	14.08	0.616	9	
E 1	Φ16	1.51	35	52.85	1.58	84	
2	Φ12	9.96	2	19.92	0.888	18	





Bar mark	Type size	length +laps (cm)	NO	Total length (m)	Unit Weight (Kg/m)	Total Weight (kg)	SHAPE (cm)
WL 1	Φ 32	4.30	21	90.30	6.31	570	
2	Φ 25	15.09	5	75.45	3.85	290	
3	"	6.83	43	293.69	"	1131	
4	"	5.93	10	59.30	"	228	
5	Φ 20	6.83	43	293.69	2.47	725	
6	"	5.93	10	59.30	"	146	
7	"	4.30	6	25.80	"	69	
8	Φ 16	14.77	40	590.80	1.58	933	
9	"	12.56	6	75.36	"	119	
10	"	7.40	12	88.80	"	140	
11	"	2.53	35	88.55	"	140	
12	"	3.50	5	17.50	"	28	
13	"	2.24	6	13.44	"	21	
14	"	3.14	22	69.08	"	109	
15	"	2.26	21	47.46	"	75	
16	"	1.22	21	25.62	"	40	



Bar mark	Type size	length flaps (m)	NO	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
WL17	Φ16	1.64	50	82.00	1.58	130	50 67
18	"	1.44	2	2.88	"	5	50 44
19	Φ12	5.43	2	10.86	0.888	10	543
WR 1	Φ15	9.20	5	46.00	3.85	177	90 50 180
2	"	5.20	24	124.80	"	480	310 ~ 630 18
3	"	3.60	14	50.40	"	194	310 18
4	Φ20	5.20	24	124.80	2.47	308	310 ~ 630 18
5	Φ16	5.11	18	91.98	1.58	145	520 ~ 310 18
6	"	5.76	6	34.56	"	55	510 ~ 150 18
7	"	6.09	3	18.27	"	29	513 18
8	"	3.60	17	61.20	"	97	310 18
9	"	5.11	18	91.98	"	145	520 ~ 310 18
10	"	5.76	6	34.56	"	55	510 ~ 150 18
11	"	6.09	3	18.27	"	29	513 150 18
12	"	2.70	10	27.00	"	43	220 50
13	"	12.30	6	73.80	"	117	150 ~ 650 150 ~ 520 47 50

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Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit Weight (Kg/m)	Total weight (kg)	Shape (cm)
WR 14	Φ 16	14.77	14	206.78	1.58	327	1550x877 1500x777 50
15	"	4.50	38	171.00	"	270	510 50
16	"	4.10	24	98.90	"	155	500x300 50
17	"	8.70	2	17.40	"	27	70 50
18	"	2.25	35	78.75	"	124	30 145 50
19	"	2.93	4	11.72	"	19	30 215 50
20	"	1.95	6	11.70	"	18	30 135 50
21	"	2.92	21	61.32	"	97	50 232 50
22	"	1.02	20	10.90	"	32	30 11
23	"	1.44	24	34.56	"	55	50 11
24	Φ 12	5.13	2	10.26	0.888	9	513



Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit Weight (Kg/m)	Total weight (kg)	Shape (cm)
F 1	Φ 20	3.35	83	278.05	2.47	687	255 18
2	Φ 16	3.20	41	131.20	1.58	207	240 18
3	"	9.96	49	488.04	"	771	996
4	"	9.96	49	488.04	"	771	996
5	"	7.35	37	271.95	"	430	81 655
6	"	7.35	41	301.35	"	476	81 655
7	"	2.10	32	67.20	"	106	210
8	"	11.56	9	104.04	"	164	81 996 18
9	"	9.30	4	37.20	"	59	81 830 18
10	"	10.96	4	43.84	"	69	81 996 18
11	Φ 12	11.56	9	104.04	0.888	92	81 996 18
12	Φ 20	2.96	30	88.80	2.47	219	10 10 81 54 18
13	Φ 16	2.39	100	239.00	1.58	378	53 81 10 10 18

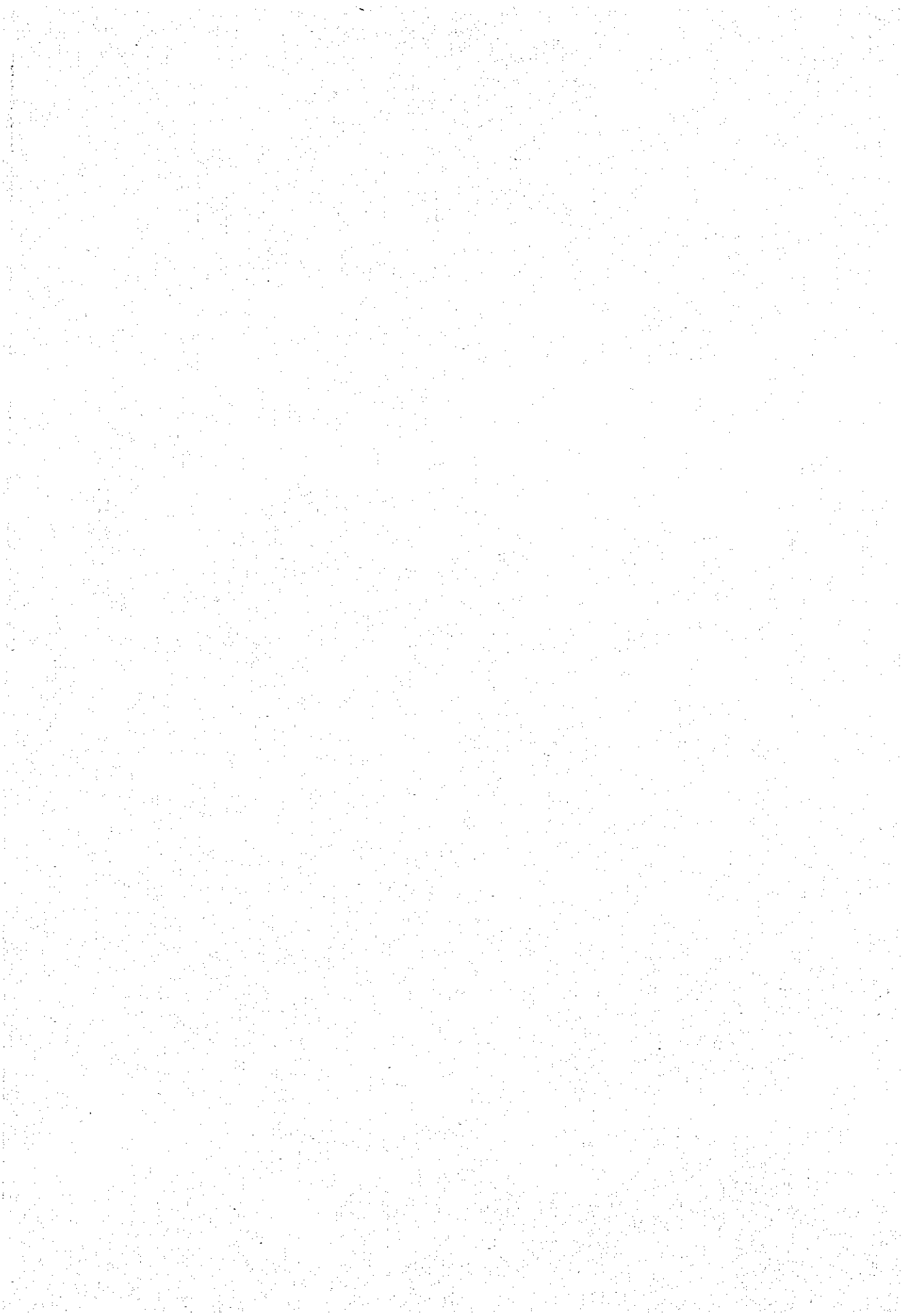




Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit Weight (Kg/m)	Total weight (Kg)	Shape (mm)
			Φ32			1.779	K7
			Φ25			2.500	'
			Φ20			2.149	'
			Φ16			14.130	'
			Φ12			293	'
			Φ10			9	'
		GRAND TOTAL				20.880	K7

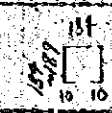
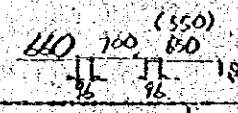

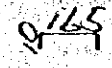
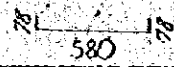
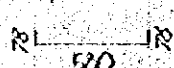
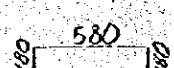
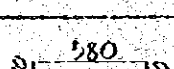

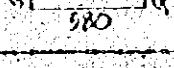
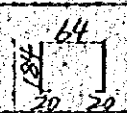
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R - PIER



Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
B 1	Φ32	11.30	2	22.60	6.31	143	
2	"	11.30	13	146.90	"	927	
3	"	9.30	2	18.60	"	117	
4	"	8.26	5	41.30	"	261	
5	"	7.88	4	31.52	"	199	
6	"	7.98	4	29.92	"	189	
7	Φ20	10.07	2	20.14	2.47	50	
8	"	10.07	7	70.49	"	174	
9	Φ16	9.30	4	37.20	1.56	59	
10	"	6.19	6	37.14	"	59	
B° 1	Φ20	4.86	25	121.50	2.47	300	
2	"	3.61	50	180.50	"	446	
3	"	1.95	50	97.50	"	241	
4	"	4.91	25	122.75	"	303	
5	"	3.66	50	183.00	"	452	



Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
B° 6	Φ 20	5.77	13	75.01	2.47	185	
C 1	Φ 32	20.60	56	1153.60	6.31	7279	
2	Φ 12	6.18	98	605.64	0.888	538	
3	"	1.85	112	207.20	"	184	
F 1	Φ 25	7.36	39	287.04	3.85	1105	
2	"	7.36	39	287.04	"	1105	
3	Φ 16	9.40	20	188.00	1.58	297	
4	"	9.40	20	188.00	"	297	
5	"	6.80	8	54.40	"	86	
6	"	6.80	8	54.40	"	86	
7	Φ 20	4.72	36	169.92	2.47	470	

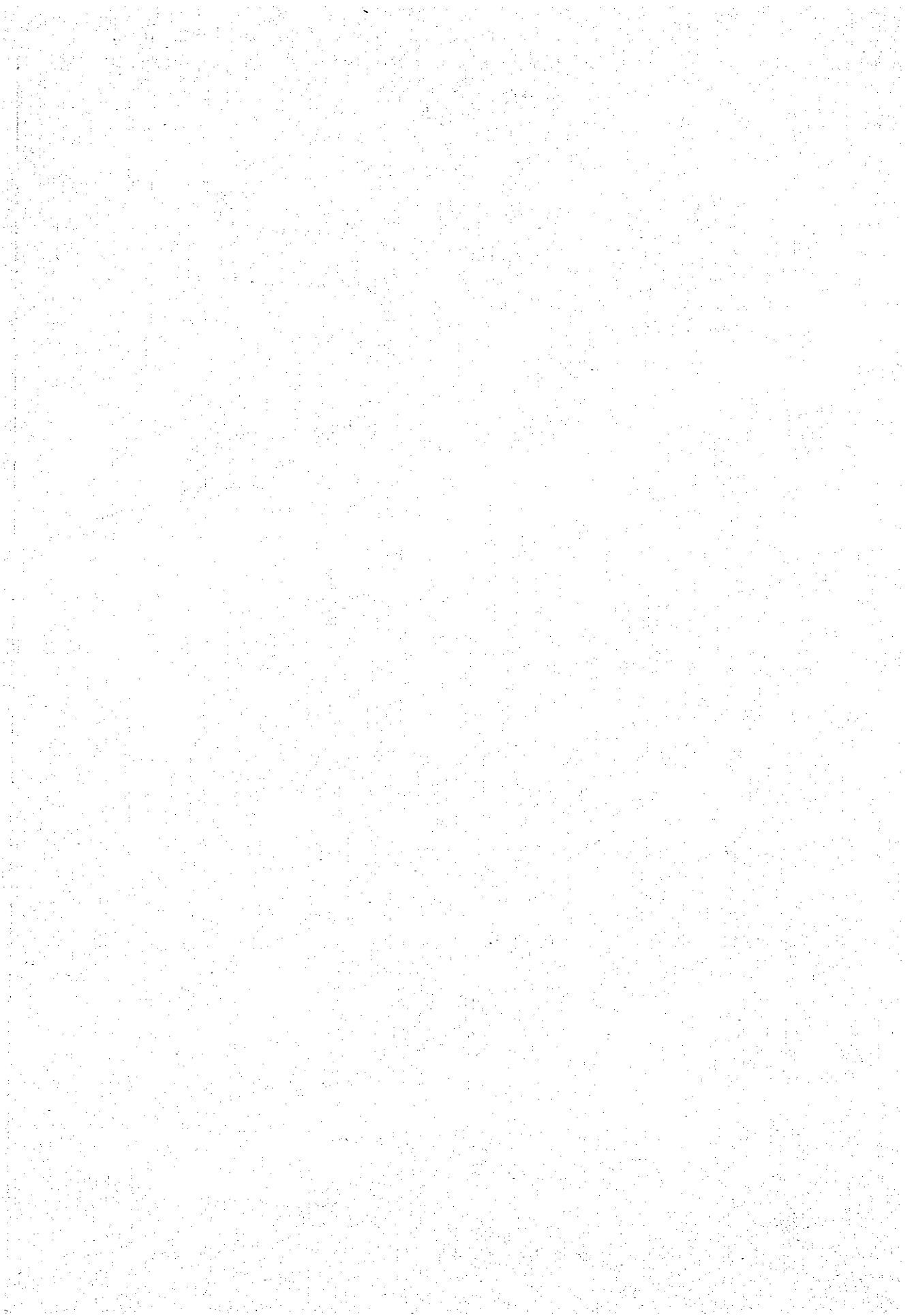


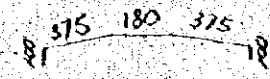
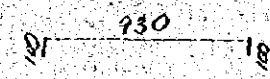
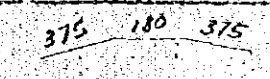
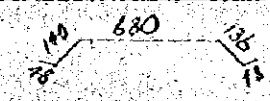
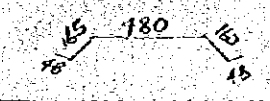
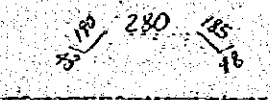

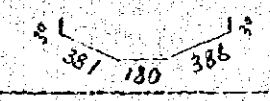
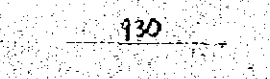
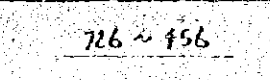
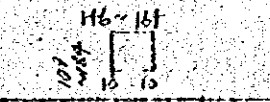
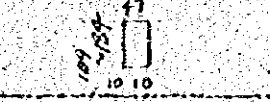
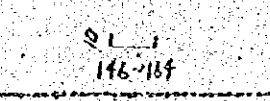
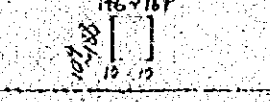
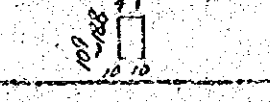




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P<sub>2</sub> - PIER



Bar mark	Type size	length flaps (cm)	NO.	Total length (cm)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
B 1	Φ32	11.30	2	22.60	6.31	143	
2	"	11.30	12	135.60	"	856	
3	"	9.30	2	18.60	"	117	
4	"	10.52	4	42.08	"	266	
5	"	9.01	4	36.04	"	222	
6	"	7.51	4	30.04	"	190	
7	Φ20	10.01	2	20.14	2.47	50	
8	"	10.01	6	60.12	"	149	
9	Φ16	9.30	6	55.80	1.56	88	
10	"	5.91	4	23.64	"	37	
B 1	Φ20	4.68	25	117.00	2.47	289	
2	"	3.60	50	180.00	"	445	
3	"	1.75	50	87.50	"	216	
4	"	4.72	25	118.00	"	291	
5	"	3.69	50	182.00	"	450	



Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit weight (Kg/m)	Total weight (kg)	Shape (cm)
B° 6	Φ 20	5.56	11	61.16	2.47	151	
C 1	Φ 32	16.00	36	576.00	6.31	3635	
2	Φ 12	5.55	83	460.65	0.888	405	
3	"	1.40	88	140.80	"	125	
F 1	Φ 25	6.86	35	240.10	3.85	924	
2	"	6.86	35	240.10	"	924	
3	Φ 16	8.50	18	153.00	1.58	242	
4	"	8.50	18	153.00	"	242	
5	"	6.30	8	50.40	"	80	
6	"	6.30	8	50.40	"	80	
7	Φ 20	4.32	36	155.52	2.47	384	









A<sub>2</sub> - ABUTMENT



Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit Weight (Kg/m)	Total weight (Kg)	Shape (cm)
P 1	Φ 16	2.96	42	124.32	1.58	196	
1		2.96	17	227.92		360	
3		2.50	16	40.00		63	
4	Φ 12	9.96	18	179.28	0.888	159	
5		1.46	4	5.84		5	
A 1	Φ 16	7.96	10	398.40	1.58	629	
2		7.96	38	378.48		598	
3		11.30	41	463.30		732	
4		10.27	37	379.99		600	
5		2.54	41	104.14		165	
6		2.65	39	103.35		163	
7		3.04	29	88.16		139	
E 1	Φ 16	1.51	35	52.85	1.58	84	
2	Φ 12	9.96	2	19.92	0.888	18	









BAR mark	Type size	length +laps (m)	NO.	Total length (m)	Unit Weight (kg/m)	Total Weight (kg)	SHAPE (mm)
W 5	Φ10	6.33	38	240.54	2.47	594	Φ10 583
6	"	5.93	10	59.30	"	134	Φ10 993
7	Φ16	4.00	7	28.00	1.58	44	Φ16 350
8	"	13.14	36	473.04	"	797	Φ16 1000 (51) 1000 (51) 1000 (51) 1000 (51)
9	"	11.31	6	67.86	"	107	Φ16 1000 (51) 1000 (51) 1000 (51) 1000 (51)
10	"	6.90	11	75.90	"	120	Φ16 140
11	"	2.53	31	78.43	"	124	Φ16 120
12	"	3.50	4	14.00	"	22	Φ16 120
13	"	1.94	6	11.64	"	18	Φ16 120
14	"	3.14	10	62.80	"	99	Φ16 120
15	"	2.26	19	42.94	"	68	Φ16 120
16	"	1.22	19	23.18	"	37	Φ16 120
17	"	1.64	46	75.44	"	119	Φ16 120
18	"	1.44	2	2.88	"	5	Φ16 120
19	Φ12	4.93	2	9.86	0.888	9	Φ12 993



Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
F 1	Φ 20	3.35	81	271.35	2.47	670	80   155
2	Φ 16	3.20	41	131.20	1.58	207	80   130
3	"	2.96	45	143.20	"	708	976
4	"	2.96	45	143.20	"	708	976
5	"	6.70	37	247.70	"	392	570   80
6	"	6.70	41	274.70	"	434	570   80
7	"	2.20	32	70.40	"	111	110
8	"	11.56	9	104.04	"	164	80   976
9	"	8.80	4	35.20	"	56	80   780
10	"	10.96	4	43.84	"	69	80   976
11	Φ 12	11.56	9	104.04	0.888	92	80   976
12	Φ 20	2.94	30	88.20	2.47	218	80   103
13	Φ 16	2.39	92	219.88	1.58	347	80   53 10.10







§§3 A-LINE - 3 B.R





A1 - ABUTMENT



Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (mm)
P 1	Φ 16	1.96	78	152.88	1.58	242	
2	"	1.96	76	148.96	"	235	
3	"	2.50	4	10.00	"	16	
4	"	2.50	4	10.00	"	16	
5	Φ 12	19.56	12	234.72	0.888	208	
6	"	1.51	4	6.04	"	5	
A 1	Φ 16	20.00	38	760.00	1.58	1201	
2	"	19.77	37	731.49	"	1156	
3	"	7.00	36	252.00	"	398	
4	"	8.80	4	35.20	"	56	
5	"	11.25	79	888.75	"	1404	
6	"	10.37	72	746.64	"	1180	
7	"	3.50	16	56.00	"	88	
8	"	1.74	79	137.46	"	217	
9	"	2.05	77	157.85	"	249	



Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit Weight (kg/m)	Total weight (kg)	Shape (cm)
A10	Φ16	2.88	58	167.04	1.58	264	
B 1	Φ25	12.98	25	324.50	3.85	1249	
2	"	12.68	5	63.40	"	244	
3	"	10.28	10	102.80	"	396	
4	"	7.80	10	78.00	"	300	
5	"	5.90	15	88.50	"	341	
6	Φ16	3.75	330	1237.50	1.58	1955	
7	"	9.27	70	648.90	"	1025	
8	"	4.45	200	890.00	"	1406	
9	"	2.25	279	627.75	"	992	
10	"	2.92	180	525.60	"	830	
11	"	1.44	165	237.60	"	375	
12	Φ10	0.64	110	70.40	0.616	43	



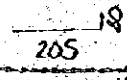

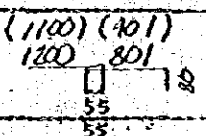
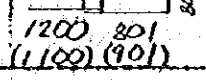
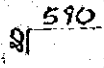
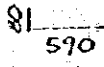

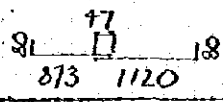
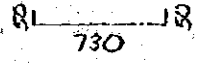
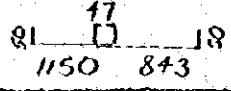
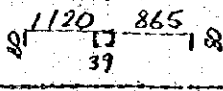
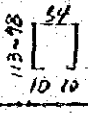
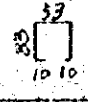
Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit Weight (kg/m)	Total Weight (kg)	Shape (cm)
E 1	Φ 16	1.51	68	102.68	1.58	162	$\begin{array}{r} 16 \\ 20 \end{array} \begin{array}{l} \square \\ 20 \end{array}$
2	Φ 12	9.80	2	19.60	0.888	17	980
3	"	7.20	2	14.40	"	13	720
W 1	Φ 25	6.92	36	249.12	3.85	959	$\begin{array}{r} 692 \\ 78 \end{array}$
2	"	6.26	6	37.56	"	145	$\begin{array}{r} 576 \\ 78 \end{array}$
3	"	4.20	20	84.00	"	323	$\begin{array}{r} 370 \\ 78 \end{array}$
4	Φ 20	6.92	36	249.12	2.97	615	$\begin{array}{r} 692 \\ 78 \end{array}$
5	"	6.26	6	37.56	"	93	$\begin{array}{r} 576 \\ 78 \end{array}$
6	"	3.13	3	9.39	"	23	$\begin{array}{r} 96 \\ 267 \end{array}$
7	"	2.26	6	13.56	"	33	$\begin{array}{r} 96 \\ 270 \sim 90 \end{array}$
8	Φ 16	3.48	3	10.94	1.58	16	$\begin{array}{r} 66 \\ 282 \end{array}$
9	"	2.61	6	15.66	"	25	$\begin{array}{r} 285 \\ 2105 \end{array}$
10	Φ 20	12.28	5	61.90	2.97	152	$\begin{array}{r} 12 \\ 150 \\ 50 \end{array}$
11	Φ 16	11.83	42	496.86	1.58	785	$\begin{array}{r} (550) (400) (550) (550) \\ 650 \\ 485 \\ 50 \end{array}$
12	"	10.80	4	43.20	"	68	$\begin{array}{r} (550) (400) (550) (550) \\ 650 \\ 380 \\ 50 \end{array}$





Bar mark	Type size	length +laps (m)	NO	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
W 13	Φ 16	7.90	12	88.80	1.58	140	690 50
14	"	0.87	7	6.09	"	10	90-139 50
15	"	0.95	8	7.60	"	12	40-150
16	"	3.95	2	7.90	"	12	50 370
17	"	2.22	31	68.82	"	109	50 112-13
18	"	2.72	5	13.60	"	21	50 212-13
19	"	1.98	3	5.94	"	9	50 135-13
20	"	3.14	22	69.08	"	109	50 257-13
21	"	1.22	31	37.82	"	60	50 12
22	"	2.26	31	70.06	"	111	50 16
23	"	1.64	33	54.12	"	86	50 64
24	Φ 12	8.02	2	16.04	0.888	14	802



Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit Weight (Kg/m)	Total weight (kg)	Shape (cm)
F1	Φ20	2.85	157	447.45	2.47	1105	
2	Φ16	2.69	79	212.51	1.58	336	
3	"	20.81	95	936.45	"	1480	
4	"	20.81	95	936.45	"	1480	
5	"	6.70	74	945.80	"	783	
6	"	6.70	79	529.30	"	836	
7	"	2.30	42	142.10	"	225	
8	"	21.53	7	150.71	"	138	
9	"	8.30	4	33.20	"	52	
10	"	20.93	4	83.72	"	132	
11	Φ12	21.45	7	150.15	0.888	133	
12	Φ16	2.85	46	131.10	1.58	207	
13	"	2.39	197	470.83	"	744	







A<sub>2</sub> - ABUTMENT



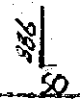
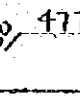
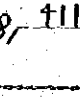
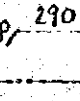
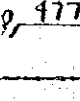
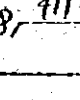
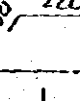
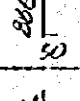
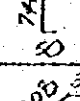
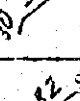
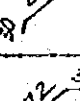
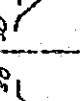
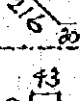
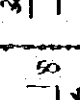
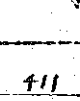


Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit Weight (Kg/m)	Total weight (kg)	Shape (cm)
P 1	Φ 16	1.86	79	167.94	1.58	232	
2	"	1.86	78	145.08	"	229	
3	"	1.50	4	10.00	"	16	
4	Φ 12	19.14	6	114.84	0.888	102	
5	"	19.21	6	115.26	"	102	
6	"	1.51	4	6.04	"	5	
A 1	Φ 16	18.96	27	511.92	1.58	809	
1	"	19.13	30	573.90	"	907	
3	"	9.50	2	19.00	"	30	
4	"	8.30	78	647.40	"	1,023	
5	"	7.35	72	529.20	"	836	
6	"	1.74	75	130.50	"	206	
7	"	1.82	3	5.46	"	9	
8	"	2.15	77	165.55	"	262	
9	"	2.72	10	163.20	"	258	



Bar mark	Type size	length +laps (m)	NO.	Total length (m)	Unit weight (kg/m)	Total weight (kg)	Shape (cm)
B 1	Φ25	9.20	25	230.00	3.85	886	
1	"	8.90	10	89.00	"	343	
3	"	6.70	5	33.50	"	129	
4	"	5.00	10	50.00	"	193	
5	Φ16	3.00	230	690.00	1.58	1090	
6	"	4.60	230	1058.00	"	1672	
7	"	2.25	210	472.50	"	747	
8	"	2.76	140	386.40	"	611	
9	"	1.44	115	165.60	"	262	
10	Φ10	0.64	60	38.40	0.616	24	
E 1	Φ16	1.51	72	108.72	1.58	172	
2	Φ12	6.56	2	13.12	0.888	12	
3	"	9.80	2	19.60	"	17	



Bar mark	Type size	length laps (m)	NO	Total length (m)	Unit Weight (Kg/m)	Total Weight (Kg)	Shape (cm)
W 1	Φ20	9.36	5	46.80	2.47	116	
2	"	5.27	26	137.02	"	338	
3	"	4.61	6	27.66	"	68	
4	"	3.40	15	51.00	"	126	
5	Φ16	5.27	26	137.02	1.58	216	
6	"	4.61	6	27.66	"	94	
7	"	2.70	5	13.50	"	21	
8	"	9.36	29	271.44	"	429	
9	"	7.96	4	31.84	"	50	
10	"	2.68	21	56.28	"	89	
11	"	3.42	5	17.10	"	27	
12	"	2.32	2	4.64	"	7	
13	"	2.76	16	44.16	"	70	
14	"	1.03	16	16.48	"	26	
15	"	1.44	31	44.64	"	71	
16	Φ12	4.11	2	8.22	0.888	7	