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SCALE A L_, , _-1, 1, \
MLE OM
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$1: 25$











|  <br> (12) $\square \square$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{\text {TYPE }}$ | DIA | (tinl | number | WELCHI/m | Mectries | $\underset{\substack{\text { WEIgHI } \\(\mathrm{kg})}}{ }$ | StAPE |
| 11 | 10 | 1240 | 94 | 0.617 | 0.765 | 72 |  |
| 52 | 13 | 14000 | 4 | 1.040 | 14.550 | 87.38 |  |







RENFORCING BAR OF STOP LOCK GROOVE

SLAB REINFORCING BAR


| TYPE | $\begin{gathered} 01 \\ (\mathrm{~mm}) \end{gathered}$ | $\left.\begin{array}{c} \text { Levort } \\ \text { (mmit } \end{array}\right]$ | NUMEER |  |  | सeioht | SHAPE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| s1 | 13 | 3,060 | 7 | 1,04 | 3,192 | 225,9504 |  |
| s2 | 13 | 2,620 | 37 | 1,04 | 2,725 | 100,941 |  |
| 53 | ${ }^{13}$ | 8,820 | 20 | 1,04 | 9,173 | 183,45 |  |
| 54 | 13 | +00 | 12 | 1.04 | 0.416 | 4,99 |  |
| 55 | 13 | 2.440 | 20 | 8,04 | 2,496 | 49,92. |  |
| totat - 66 S,14 |  |  |  |  |  |  |  |

## STOP LOCK GROOVE



(WET STONE MASONRY)





| BAR WEIGHT |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TYPE | $\begin{gathered} \text { OIA } \\ (\mathrm{mm}) \end{gathered}$ | $\left\|\begin{array}{c} \text { Levart } \\ (\mathrm{mm}) \end{array}\right\|$ | mmaer |  | $\begin{gathered} \text { WEIGHR } \\ \left.\begin{array}{c} \text { ERER ARA } \\ \left(k_{g}\right) \end{array}\right) \end{gathered}$ | $\begin{array}{\|c} \text { wEisHT } \\ \text { (kg) } \end{array}$ | Shape |
| w* 1 | ${ }^{13}$ | 2040 | 24 | 1.040 | 2.122 | 44,562 | $\square$ |
| ww 2 | 13 | 2040 | 21 | 1.040 | 2.122 | 44.962 | $\cdots$ |
| ww | 13 | 2990 | 42 | 1.040 | 3.1096 | 130.603 | $\ldots$ |
| ww 4 | 13 | 2990 | 42 | 1.040 | 3.1096 | 130.603 |  |
| ww 3 | 13 | 4070 | ${ }^{16}$ | 1.040 | 4.857 | 71.712 | --- |
| wwso | ${ }^{13}$ | 4200 | 20 | 1.040 | 4.369 | ${ }^{81} .36$ |  |
| wims | 13 | 840 | 21 | 1.040 | 0.874 | 18,394 | $\square$ |
| ww | 13 | 840 | 21 | 1.040 | 0,874 | 18.354. | - |
| w** | 13 | 903 | 21 | 1.040 | 0.940 | 19.74 |  |
| **9 | 13 | 1003 | 63 | 1.040 | 1.043 | 65.709 | $\checkmark$ |
| win 10 | 13 | 1820 | 12 | 1.040 | 8.433 | 97.596 |  |
| wixioo | 13 | 300 | 4 | 4.040 | 0.52 | 2.08 |  |
| wwit | 13 | 3.415 | 2 | 1.040 | 3.632 | 11.264 | $\cdots$ |
| Wพ 12 | 3 | 990 | 34 | 1.040 | 1.023 | 35.006 | [ $]$ |
| Total $=183.90$ |  |  |  |  |  |  |  |



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CROSS SECTION
OF BARU CONVEANCE CHANNEL TYPE - A
SCALE A


LONGITUDINAL SECTION OF BARU CONVEYANCE CHANNEL
$\frac{\text { LONGITUDINAL SECTION OF BARU CONVEYANCE CHANNEL }}{\substack{\text { SCAIEE } \\ \text { SCALE B }}}$



$\frac{\text { CROSS SECTION }}{\text { SCALE B }}$



GENERAL CROSS SECTION

$\frac{\text { SIDE WALL }}{\text { SCALE }}$


$\frac{\text { BAR LAY OUT }}{\text { SCALE A }}$

bar bending schedule

| Lis | - J |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{TrPE}^{\text {rem }}$ | Shape | OA | NMMEER | \|cemgh | ${ }^{\text {(mm) }}$ | ${ }^{\text {(mim) }}$ |  |  | ${ }_{(\text {min }}$ | ${ }_{(m m)}^{\text {(m) }}$ |
| S1 | $\bigcirc$ | $0 \cdot 3$ | 4 | 3380 | 1375 | 220 | 2240 | 122 |  | 140 |
| 52 | 1 | 613 | 8 | 2320 | 2520 |  |  |  |  |  |
| 53 | ${ }^{6}$ | 013 | $\bigcirc$ | 970 | 100 | 768 | 100 |  | 543 |  |
| ${ }_{5}{ }^{4}$ | 4 | 013 | 8 | 2300 | 1116 | 220 | 937 |  |  | 40 |
| ss | 1 | 013 | 20 | 1000 | 1000 |  |  |  |  |  |
| ${ }^{56}$ | 3 | 013 | ${ }^{6}$ | 880 | 100 | 196 | 276 |  |  |  |
| ${ }^{1}$ | 1 | 013 | 8 | 2350 | 2345 |  |  |  |  |  |
| ${ }^{*} 2$ | 1 | $\bigcirc+3$ | ${ }^{28}$ | 1000 | 1000 |  |  |  |  |  |
| *3 | 2 | 0.3 | 12 | 400 | 100 | 196 | 100 |  |  |  |
| ${ }_{1}{ }_{1}$ | 5 | 013 | 4 | 5430 | 1145 | 220 | 2240 | 1600 |  | 140 |
| ${ }^{5}$ | 1 | 013 | 8 | 2520 | $252{ }^{\circ}$ |  |  |  |  |  |
| ${ }^{6}$ | 6 | 013 | 8 | 1010 | 100 | 803 | 100 |  | 368 |  |
| 5 | 4 | 013 | 8 | 2240 | 1071 | 220 | 941 |  |  | 140 |
| ${ }_{5}$ | 1 | 043 | 20 | 1000 | 1000 |  |  |  |  |  |
| F6 | 3 | 013 | 6 | 920 | 100 | 224 | 276 |  |  |  |


| trpe | diA | $\begin{gathered} \text { LENGTH } \\ \text { (mmi } \end{gathered}$ | numaek |  |  | $\begin{gathered} \text { Welight } \\ \text { (kgot) } \end{gathered}$ | shape |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 51 | 013 | 3380 | 4 | 1.040 | 5.993 | 22.334 | $\bigcirc$ |
| 52 | 013 | 2520 | 8 | 1.040 | 2.621 | 20.966 | - |
| ${ }^{3}$ | 04 | 970 | - | 1.040 | 1.009 | 8.012 | $\square$ |
| 54 | 013 | 2300 | - | 1.046 | ${ }^{2} .392$ | 19.436-, | $\Gamma$ |
| 55 | 013 | 1000 | 20 | 1.040 | 1.669 | 20.800 | -- |
| 56 | 013 | 870 | 6 | 1.040 | 0.905 | 5.129 | $\square$ |
| wi | 013 | 2850 | 8 | 1.090 | 2.652 | 21.246 | $\square$ |
| $\omega^{2}$ | $0+3$ | 1000 | 28 | 1.064 | 1.040 | 29.120 | - |
| *3 | 013 | 400 | 12 | 1.040 | 0.416 | 4.992 | L] |
| F1 | 013 | 3430 | 4 | 1.045 | 5:647 | 22.569 | $\bigcirc$ |
| $\mathrm{F}_{2}$ | 013 | 2320 | 8 | 2.010 | 2.624 | 20.966 | $\cdots$ |
| ${ }_{5} 3$ | 013 | 1010 | 8 | 1.040 | 1.050 | 8.403 | r |
| F4 | 013 | 2240 | 8 | 1.240 | 2.330 | ${ }^{18.931}$ | $\Gamma$ |
| ${ }_{5} 5$ | 013 | 1000 | 20 | 1.040 | 1.040 | 20.800 |  |
| $f 8$ | 013 | 920 | 6 | 1.040 | 0.957 | 5.741 | 5 |

BAR BENDING DETAIL

|  | $\mathrm{O}_{1} \mathrm{~A}$ | - | 。 | 1 | $\stackrel{1}{ }$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | OVERLAP |  |
|  | 013 | 66 | 156 | 222 | 42 | 455 | 0.473 |
|  | 016 | 75 | 193 | 288 | 48 | 380 | 0.9895 |
|  | - ${ }^{\text {otg }}$ | 94 | 236 | 330 | 60 | 663 | 1.483 |
|  | 022 | 104 | 272 | 376 | ${ }^{6}$ | 770 | 2.299 |
|  | 025 | 122 | 306 | 428 | 78 | 375 | ${ }^{3} .369$ |
|  | 029 | 14 | 349 | 490 | 90 | 1015 | ${ }^{3.268}$ |
|  | 032 | 151 | 385 | ${ }_{3} 38$ | 96 | 1120 |  |





| Shape |  | PE 1 |  |  |  |  |  | $\sqrt[12]{1} \int^{13}$ <br> SHAPE 4 |  |  |  <br> SHAPE \$ <br> BOX CULVERT |  | SHAPE 6 <br> PORTION |  | Shape 7 |  |  | SHAPE 8 |  | $=5 \int_{1}^{12}$ <br> SHAPE 9 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| type | SHAPE | 014 | mumer | Lenath | (mm) | ${ }_{(\mathrm{tm})^{\text {(2) }} \text { ) }}$ | ${ }_{\text {chm }}$ | ${ }_{(6)}^{\text {(m) }}$ | (mm) | ( ${ }_{\text {R }}$ | TYPE | Shape | OIA | NU4EER | $\underset{\substack{\text { Lengrit }}}{\substack{\text { Endr }}}$ | $\stackrel{4}{\text { (mm) }}$ | (tmint | (tmm | (mm) | $\stackrel{\left({ }_{(m)}^{N}\right)}{ }$ | $\stackrel{\text { R }}{\text { (mm) }}$ |
| ${ }_{51}$ | 5 | ${ }^{13}$ | 1 | 5380 | (1515 | 220 | 2,240 | 41.20 |  | 140 | 51 | 5 | ${ }^{13}$ | ? | 3,380 | 4.575 | 220 | 2,240 | 8.120 |  | 140 |
| s5 | 1 | 13 | 16 | 1.100 |  |  |  |  |  |  | 52 | 1 | 13 | 24 | 2.520 | 2.520 |  |  |  |  |  |
| Stit | 4 | is | 12 | 2,330 | 4,375 | 220 | 380 |  |  | 140 | 53 | 6 | 13 | 10 | 950 | 100 | 768 | $\infty$ |  | 543 |  |
| S2T | 1 | ${ }^{13}$ | 24 | 710 |  |  |  |  |  |  | ${ }_{5} 4$ | - | 13. | 10 | 2,300 | 1.146 | 220 | 989 |  |  | 140 |
| 54 Ti | 4 | ${ }^{13}$ | 12 | 1,910 | 1.146 | 220 | 570. |  |  | 140 | 53 | 1 | 13 | 20 | 2,700 | 2,700 |  |  |  |  |  |
|  | 1 | ${ }^{3}$ | 20 | 2.550 | 2.545 |  |  |  |  |  | 56 | 3 | 13 | 16 | 870 | 100 | 196 | 276 |  |  |  |
| ${ }^{\text {w }} 2$ | , | 13 | 21 | 2.320 |  |  |  |  |  |  | st | 1 | 13 | 8 | 96 | 920 |  |  |  |  |  |
| ${ }^{*} 3$ | 2 | 13 | 32 | 400 | 100 | 196 | 100 |  |  |  | ${ }^{\text {sf }}$ | 1 | 13. | 12 | 910 | 96 |  |  |  |  |  |
| $F_{1}$ | s | ${ }^{13}$ | - | 5,430 | 1,145 | 220 | 2.240 | 1,600 |  | 140 | StI | 5 | 13 | 10 | 4,340 | 1.375 | 220 | 2,240 | 80 |  | 140 |
| 82 | 1 | 13 | 11 | 2.520 | 2.520 |  |  |  |  |  | 54 r | 4 | 13 | 6 | 1.260 | 957 | 220 | 80 |  |  | 140 |
| ${ }_{5}$ | 6 | 13 | 12 | 1,010 | 100 | 803 | 100 |  | 568 |  | w1 | 1 | ${ }^{3}$ | 10 | 2.350 | 2,943 |  |  |  |  |  |
| ${ }_{54}$ | 4 | 13 | 10 | 2,240 | 1.071 | 220 | 944 |  |  | 140 | W2 | 1 | 13 | 17 | 2,200 | 2,700 |  |  |  |  |  |
| ${ }^{5}$ | 1 | ${ }^{3}$ | 10 | 4.700 | 1,700 |  |  |  |  |  | w3 | 2 | 13 | 16 | 400 | 100 | 196 | $\infty$ |  |  |  |
| F6 | 3 | 13 | 16 | 920 | 100 | 221 | 276 |  |  |  | F2 | , | 13 | 22 | 2,520 | 2,520 |  |  |  |  |  |
| M1 | 7 | 13 | 8 | 6,440 | 1,254 | 220 | 50 |  |  | 140 | ${ }_{5}$ | 6 | 13 | 4 | 1,010 | 160 | 233 | $\infty$ |  | 568 |  |
| M2 | 7 | 13 | 7 | 4,760 | 1.000 | 110 | 50 |  |  | 70 | ${ }_{5}$ | 4 | 13 | 10 | 2,240 | 1,074 | 220 | 94 |  |  | 140 |
| ${ }_{4}$ | 8 | 13 | 27. | 4,120 | 170 | 1,573 | 250 | 50 |  |  | ${ }_{5}$ | 1 | 13 | 20 | 2,700 | 2,700 |  |  |  |  |  |
| ${ }^{44}$ | 6 | 13 |  | 970 | 100 | 768 |  |  | 543 |  | ${ }_{6} 6$ | 3 | 13 | 16 | 920 | 100 | ${ }^{221}$ | $2 \pi$ |  |  |  |
| ms | 6 | 13 | 10 | 1.130 | 100 | 948 | 100 |  | 670 |  | ${ }^{1}$ | 1 | 13 | - | $9{ }^{9}$ | 9 |  |  |  |  |  |
| M6 | 9 | 13 | 10 | 2,050 | 1,945 | 200 |  |  |  |  | ${ }^{\text {fe }}$ | . | ${ }^{3}$ | 12 | 920 | 910 |  |  |  |  |  |
| m7 | 9 | 13 | 10 | 2, 250 | 2,008 | 50 |  |  |  |  | ${ }_{6} 11$ | 5 | 13 | 10 | 3,930 | 4.145 | 220 | 2,240 | 20s |  | 140 |
| M8 | $\bigcirc$ | ${ }^{3}$ | $\bigcirc$ | 1.125 |  |  |  |  |  |  | 54 | 3 | ${ }^{13}$ | 10 | 9,400 | 1.071 | 220 | 100 |  |  | 140 |
| m9 | 1 | 13 | , | 880 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 3 | ${ }_{9}$ | 9 | 1,150 | 50 | 426 | 200 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| trpe | dia | $\begin{array}{\|c} \substack{\text { Lenam } \\ (\mathrm{mm})} \end{array}$ | number |  |  | welgh <br> (kg 1 ) | stupg | ${ }_{\text {upe }}$ | -1. | LENGTH <br> 1 mm | NUWER |  | WELGMT/BAR OG IJ | WEIGHit <br> (tar | SHAPE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 51 | 13 | 8,380 | 2 | 1.040 | 5.995 | 11.190 | 5 | si | 13 | 3.380 | 1 | 1.040 | 5.595 | 5.995 | 5 |
| s2 | 13 | 2,520 | 21 | 1.090 | 2.624 | 05.037 | 1 | ss | ${ }^{13}$ | 1,700 | ¢ | 1.040 | 1.768 | 17.680 | 1 |
| 53 | 13 | 970 | 10 | 1.040 | 1.009 | 0.068 | 6 | ${ }_{\text {Siti }}$ | ${ }^{13}$. | 2,330 | 12 | 1.040 | 2.423 | 29.078 | 4 |
| ${ }_{5}$ | 13 | 2,300 | 10 | 1040 | 2.392 | . 28930 | 4 | 522 | 13 | 170 | 24 | 1.040 | 0.738 | 17.722 | $!$ |
| 55 | 13 | 2,700 | 20 | 1.040 | 2.808 | 36.160 | 1 | 54 | 13 | 1.90 | 12 | 1.040 | 1.988 | ${ }^{23.337}$ | 4 |
| 56 | 13 | 870 | 16 | 1040 | 0.905 | $44.47 \%$ | 3 | wi | 13 | 2,550 | 20 | 1.040 | 2652 | ${ }^{\text {53,040 }}$ | 1 |
| ${ }_{5} 5$ | 13 | 910 | 8 | 1.040 | 0946 | 7.671 | 1 | *2 | 13 | 2,520 | 21 | 1.040 | 2.621 | 55.037 | 1 |
| ss | 13. | 90 | 12 | 1.040 | 0946 | ${ }^{14.307}$ | 1 | *3 | 13. | 40 | 32 | 1.040 | 0.416 | 13.312 | ? |
| Str | 13 | 4,340 | 10 | 1.040 | 4.514 | 45.136 | 5 | F1 | 13 | 5,430 | 6 | 1.040 | 3.647 | 33.883 | 5 |
| 544 | 13. | 1,260 | 10 | 1.040 | 1.36 | 13.104 | 4 | F2 | 13 | 2,500 | 4 | 1.040 | 2.621 | ${ }^{28.820}$ | 1 |
| wi | 13 | 2,530 | 10 | 1.040 | 2682 | 26.520 | 1 | ${ }^{5}$ | 13 | 1.00 | 12 | 1040 | 1.050 | 12.805 | 6 |
| W2 | 13 | 2,200 | 17 | 1.040 | 2808 | $4{ }^{4}, 736$ | 1 | ${ }_{5}$ | ${ }^{1}$ | 2,260 | 10 | 1.050 | 2.329 | 23.258 | 4 |
| w3 | 13 | 400 | 16 | 1.040 | 0.416 | 6.565 | 2 | ${ }^{5}$ | 13 | 1.700 | to | 1.040 | ${ }^{4} .768$ | 17.600 | 1 |
| ${ }^{\text {F }}$ | 3 | 2,520 | 22 | 1.040 | 2.621 | 557.656 | 1 | 66 | 13. | 920 | 16 | 1.040 | 0.937 | B. 309 | 3 |
| ${ }_{6}$ | 13 | 1.010 | 11 | 1.040 | 10.00 | H. 1354 | 6 | m | 13 | 6.440 | - | 1.040 | 6.959 | 33.581 | 1 |
| ${ }^{\text {f4 }}$ | 13 | 2,240 | $\cdots$ | 1.040 | 2.330 | 23.296 | 4 | ${ }^{\text {m }}$ | ${ }^{3} 3$ | 4.800 | 7 | 1.040 | 4.950 | 34.053 | 7 |
| ${ }^{6}$ | 13. | 2,700 | 20 | 1.046 | 2.808 | 06.60 | 1 | $\cdots$ | 13 | 44120 | 27 | 1.040 | 4.295 | 115.500 | 8 |
| F6 | ${ }^{13}$ | 920. | 15 | 1.040 | 0.937 | tis 309 | 3 | M | 13 | 970 | 3 | 1.040 | 1.009 | 5.045 | $\bigcirc$ |
| ${ }_{7} 7$ | 13 | 910. | 8 | 1.040 | 0.946 | 7.871 | 1 | ns | ${ }_{3}$ | 1,150 | 10 | 1.040 | 1.900 | H1.980 | 6 |
| ${ }_{\text {fi }}$ | 13 | 990 | 12 | 1.040 | 0.946 | Hisin | 1 | me | 13 | 2,000 | 9 | 1040 | 2.332 | 10.108 | 9 |
| Fit | ${ }^{3}$ | 3,930 | 10 | 1.000 | 4.097 | 40872 | ${ }^{5}$ | m | 13 | 2,450 | - | 1.040 | 2235 | 20.24 | 9 |
| ${ }^{6} 4$ | 13 | 1,400 | 10 | 1.040 | 1.456 | 14.500 | 3 | me | 13. | 1.123 | 8 | 1040 | 1.50 | 0.300 | 1 |
|  |  |  |  |  |  |  |  | m9 | 13 | to | - | 1040 | 0780 | 0.240 | 1 |
|  |  |  |  |  |  |  |  | $L$ | - | 4,130 | 9 | 2.230 | 240 | 23.000 | 3 |

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