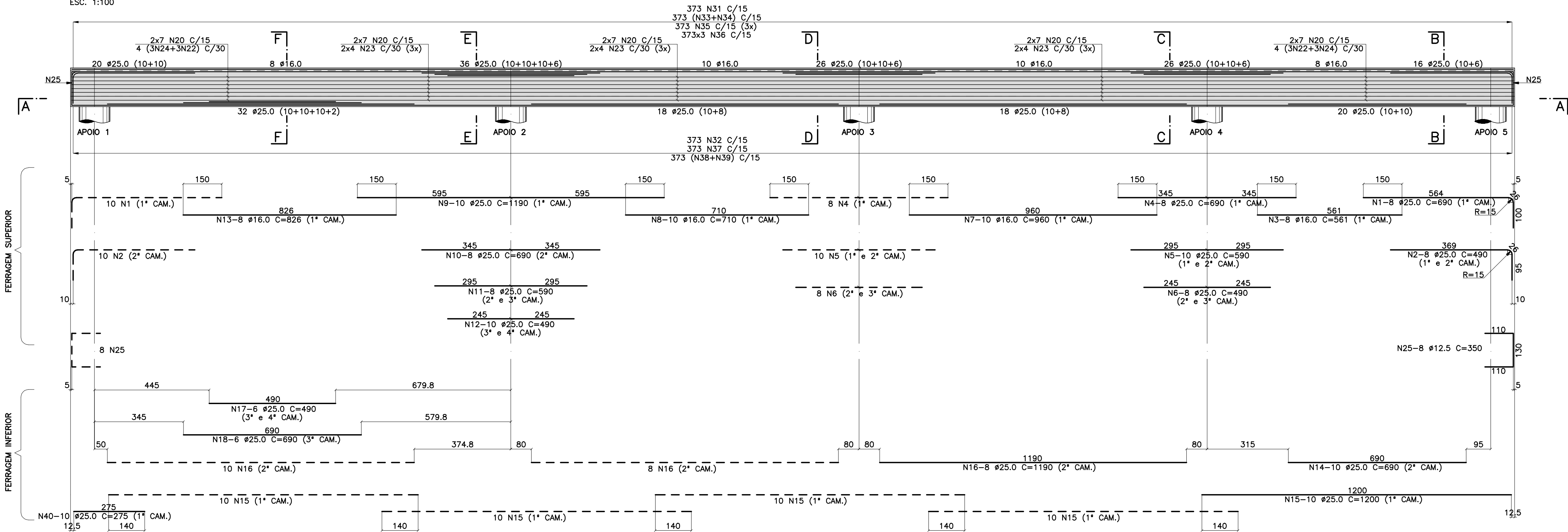


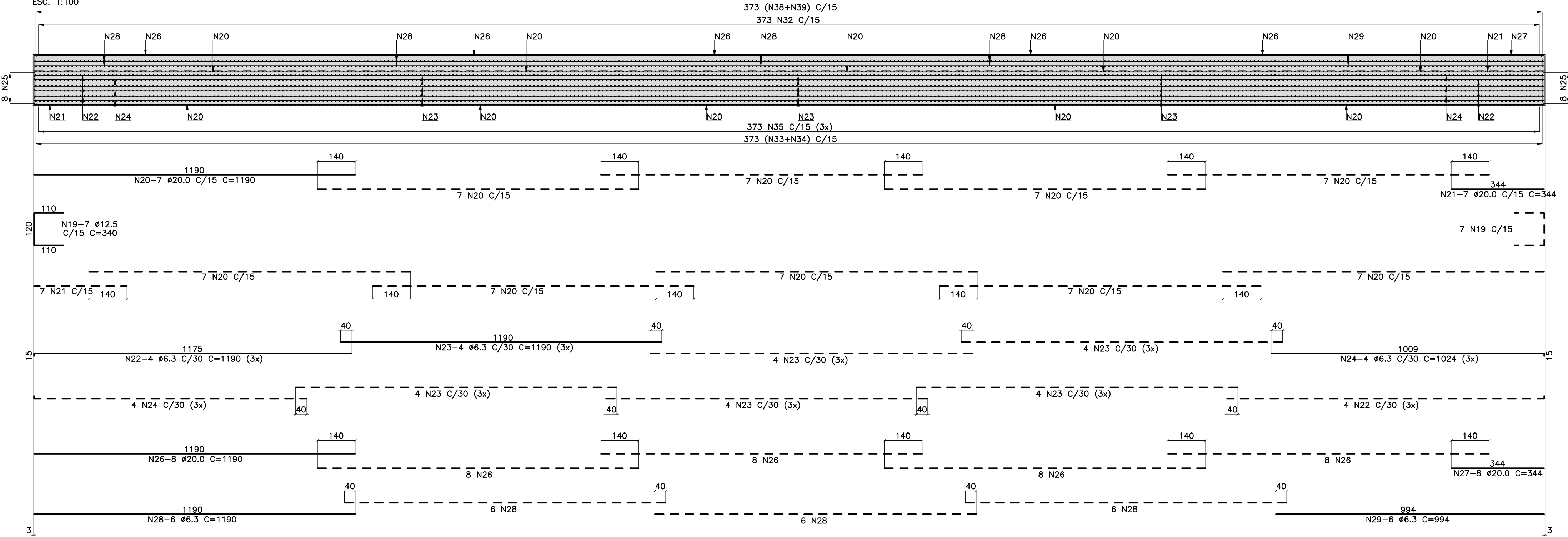
ELEVÇÃO LONGITUDINAL

ESC. 1:100



CORTE A-A / PLANTA

ESC. 1:100

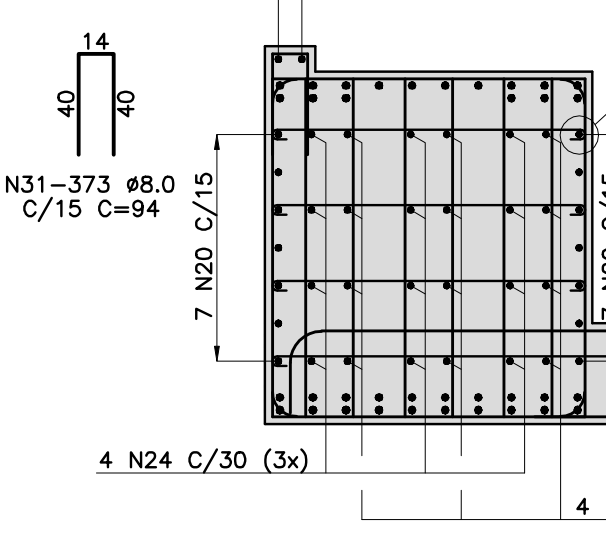


CORTE B-B

ESC. 1:30

| | | | | | | | | | | | | |
|----|---|---|---|---|---|---|---|---|---|---|---|---|
| N. | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

N30-2 Ø10.0 C=CORR. + 4 EMENDAS DE 60cm. (C.T.=5834)

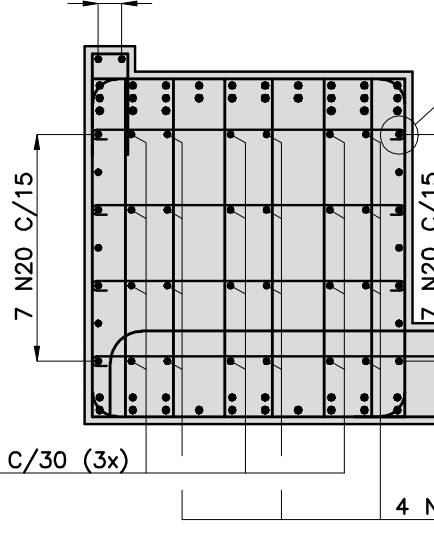


CORTE C-C

ESC. 1:30

| | | | | | | | | | | | | |
|----|---|---|---|---|---|---|---|---|---|---|---|---|
| N. | 4 | 4 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

N35-373 Ø10.0 C/15 C=318 (3x)

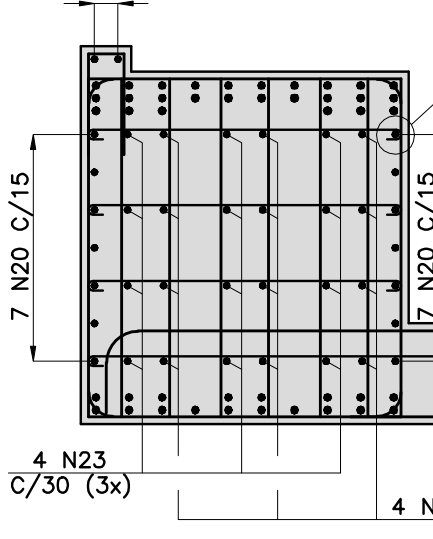


CORTE D-D

ESC. 1:30

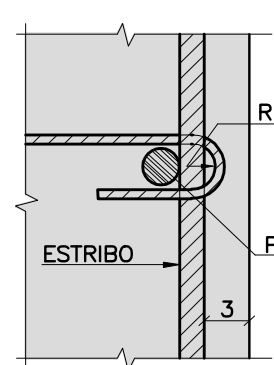
| | | | | | | | | | | | | |
|----|---|---|---|---|---|---|---|---|---|---|---|---|
| N. | 4 | 4 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 |
| | 5 | 5 | 5 | 5 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

N36-373 Ø10.0 C/15 C=318 (3x)



DETALHE "A"

ESC. 1:5

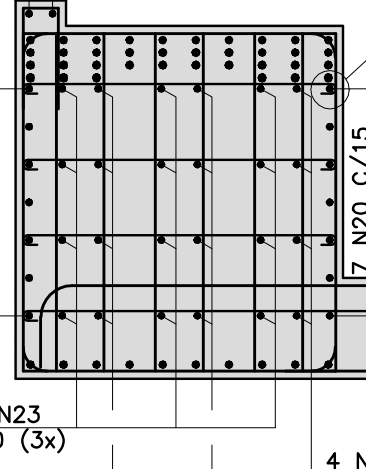


CORTE E-E

ESC. 1:30

| | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| N. | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 10 | 10 | 10 | 10 | 10 |
| | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 11 | 11 | 11 | 11 |
| | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

N20-7 Ø20.0 C/15 C=1190



CORTE F-F

ESC. 1:30

| | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| N. | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |

N27-8 Ø20.0 C=344

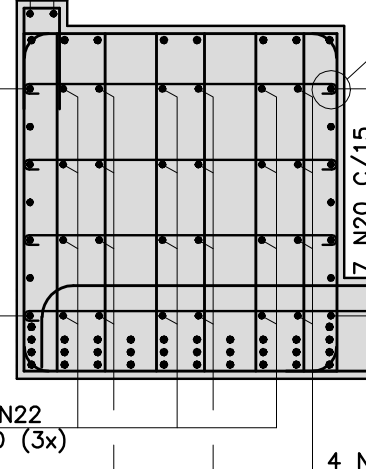


TABELA DE FERROS

| N | Ø | Q | COMPRIMENTO (m) | |
|----|------|------|-----------------|---------|
| | | | UNITÁRIO | TOTAL |
| 1 | 25.0 | 18 | 6,90 | 124,20 |
| 2 | 25.0 | 18 | 4,90 | 88,20 |
| 3 | 16.0 | 8 | 5,61 | 44,88 |
| 4 | 25.0 | 16 | 6,90 | 110,40 |
| 5 | 25.0 | 20 | 5,90 | 118,00 |
| 6 | 25.0 | 16 | 4,90 | 78,40 |
| 7 | 16.0 | 10 | 9,60 | 96,00 |
| 8 | 16.0 | 10 | 7,10 | 71,00 |
| 9 | 25.0 | 10 | 11,90 | 119,00 |
| 10 | 25.0 | 8 | 6,90 | 55,20 |
| 11 | 25.0 | 8 | 5,90 | 47,20 |
| 12 | 25.0 | 10 | 4,90 | 49,00 |
| 13 | 16.0 | 8 | 8,26 | 66,08 |
| 14 | 25.0 | 10 | 6,90 | 69,00 |
| 15 | 25.0 | 50 | 12,00 | 600,00 |
| 16 | 25.0 | 26 | 11,90 | 309,40 |
| 17 | 25.0 | 6 | 4,90 | 29,40 |
| 18 | 25.0 | 6 | 6,90 | 41,40 |
| 19 | 12.5 | 14 | 3,40 | 47,60 |
| 20 | 20.0 | 70 | 11,90 | 833,00 |
| 21 | 20.0 | 14 | 3,44 | 48,16 |
| 22 | 6.3 | 24 | 11,90 | 285,60 |
| 23 | 6.3 | 72 | 11,90 | 856,80 |
| 24 | 6.3 | 24 | 10,24 | 245,76 |
| 25 | 12.5 | 16 | 3,50 | 56,00 |
| 26 | 20.0 | 40 | 11,90 | 476,00 |
| 27 | 20.0 | 8 | 3,44 | 27,52 |
| 28 | 6.3 | 24 | 11,90 | 285,60 |
| 29 | 6.3 | 6 | 9,94 | 59,64 |
| 30 | 10.0 | 2 | CORR. | 116,68 |
| 31 | 8.0 | 373 | 0,94 | 350,62 |
| 32 | 8.0 | 373 | 1,28 | 477,44 |
| 33 | 16.0 | 373 | 4,21 | 1570,33 |
| 34 | 10.0 | 373 | 8,14 | 3036,22 |
| 35 | 10.0 | 1119 | 3,16 | 3536,04 |
| 36 | 6.3 | 1119 | 1,37 | 1533,03 |
| 37 | 6.3 | 373 | 1,97 | 734,81 |
| 38 | 10.0 | 373 | 2,14 | 798,22 |
| 39 | 25.0 | 373 | 2,75 | 1025,75 |
| 40 | 25.0 | 10 | 2,75 | 27,50 |

RESUMO DO AÇO CA-50

| Ø | COMPRIMENTOS (m) | PESOS (kg) | |
|-------|------------------|------------|-------|
| | | p/m | TOTAL |
| 6,3 | 4001,24 | 0,25 | 1000 |
| 8,0 | 828,06 | 0,40 | 331 |
| 10,0 | 7487,16 | 0,63 | 4717 |
| 12,5 | 103,60 | 1,00 | 104 |
| 16,0 | 1848,29 | 1,60 | 2957 |
| 20,0 | 1384,68 | 2,50 | 3462 |
| 25,0 | 2892,05 | 4,00 | 11568 |
| TOTAL | | | 24139 |

MATERIAIS:

- CONCRETO $f_{ck} = 30$ MPa;
- 1.1) RELAÇÃO ÁGUA/CEMENTO $\leq 0,50$ ℓ/kg
- 1.2) CONSUMO MÍNIMO DE CIMENTO 280 kg/m^3 DE CONCRETO.
- AÇO CA-50

NOTAS:

- COBRIMENTO MÍNIMO: 3cm (EXCETO ONDE INDICADO).
- MEDIDAS EM CENTÍMETROS, NÍVEIS EM METRO.
- CLASSE DE AGRESSIVIDADE II, CONFORME NORMA NBR-6118.
- VALORES MÍNIMOS DE f_{cj} E DO MÓDULO DE ELASTICIDADE DO CONCRETO NAS ETAPAS CONSTRUTIVAS:
- 1) PARA DESFORMA: $f_{cj} \geq 15$ MPa, $E_{ci} \geq 21689$ MPa.
- 2) PARA RETIRADA DE CIMBRAMENTOS: $f_{cj} \geq 20$ MPa, $E_{ci} \geq 25044$ MPa.
- 3) PARA MOVIMENTAÇÃO DE PRÉ-MOLDADOS: $f_{cj} \geq 25$ MPa, $E_{ci} \geq 28000$ MPa.