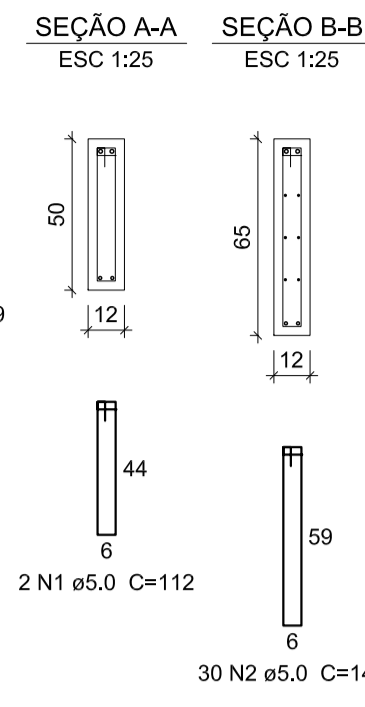
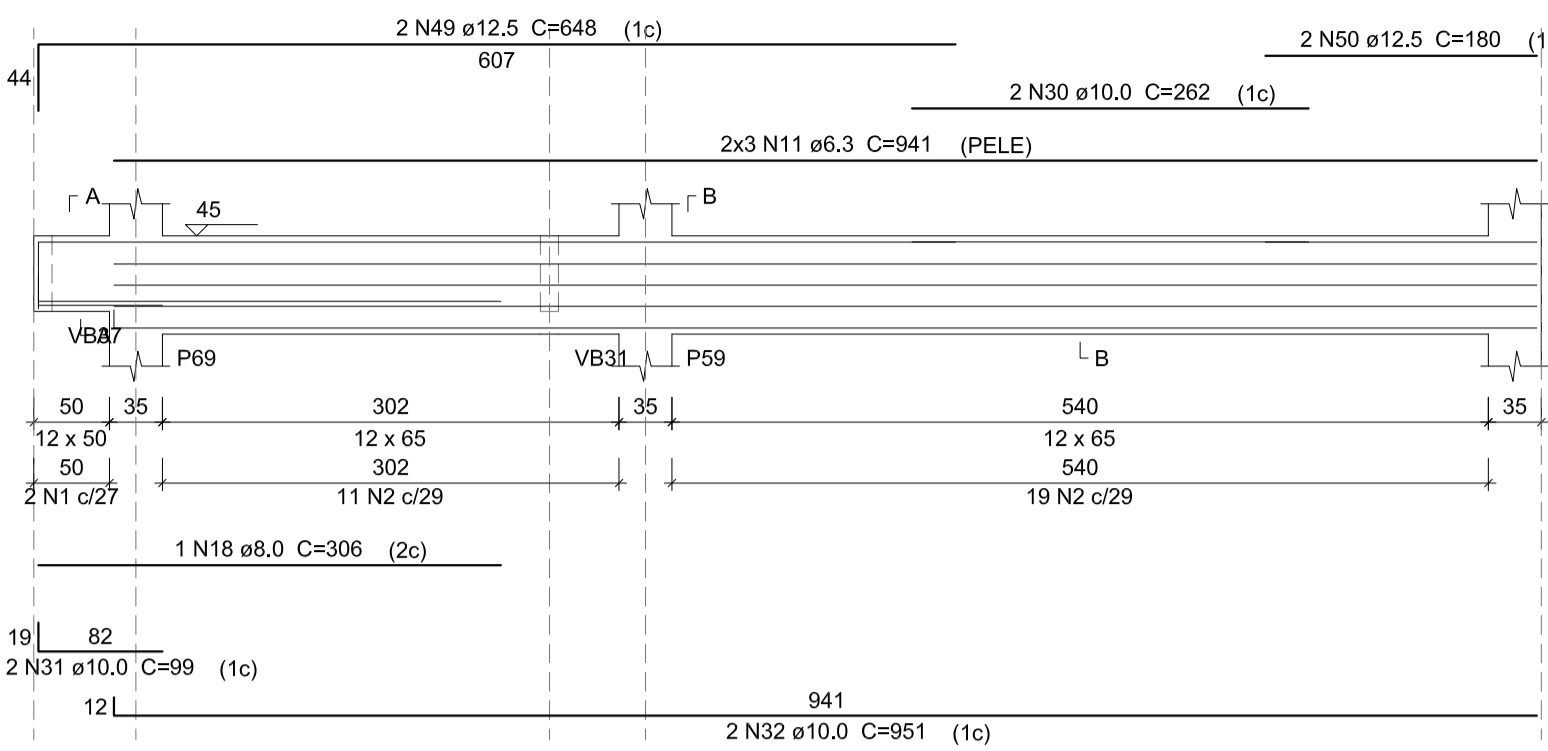
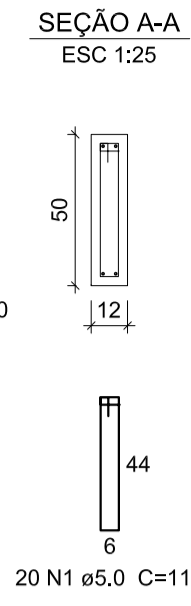
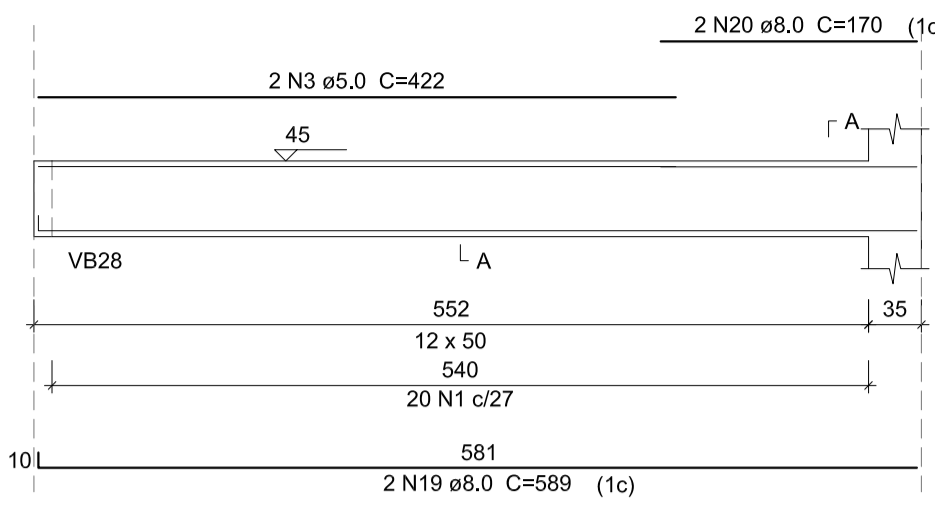


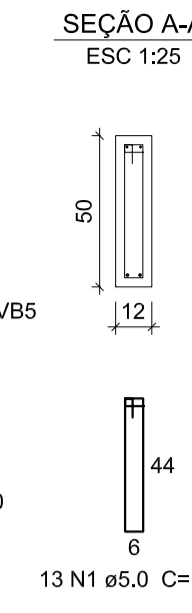
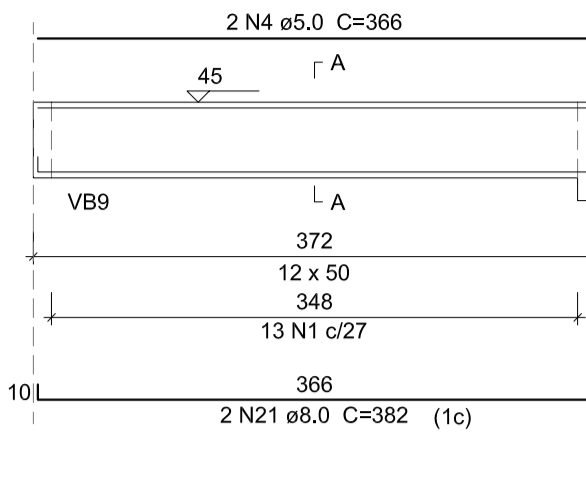
VB50
ESC 1:50



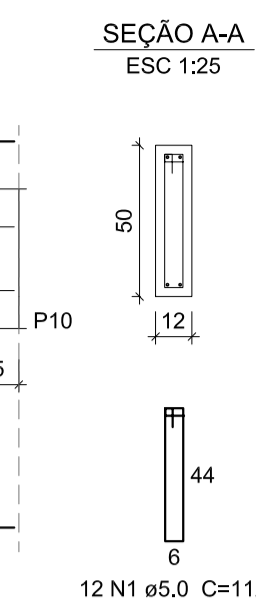
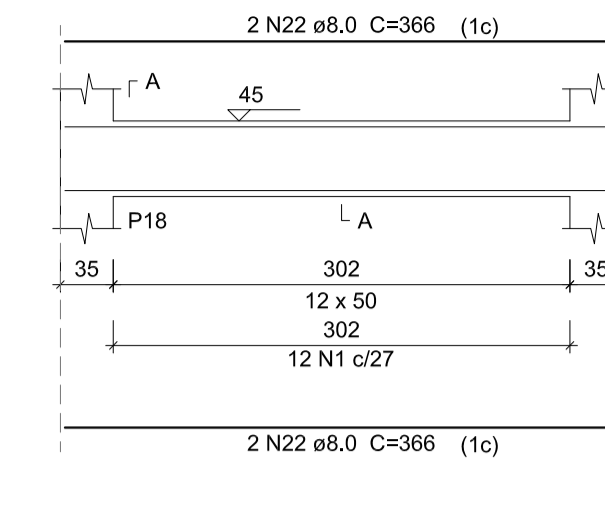
VB56
ESC 1:50



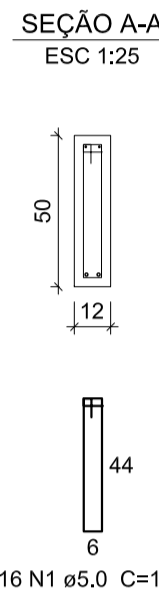
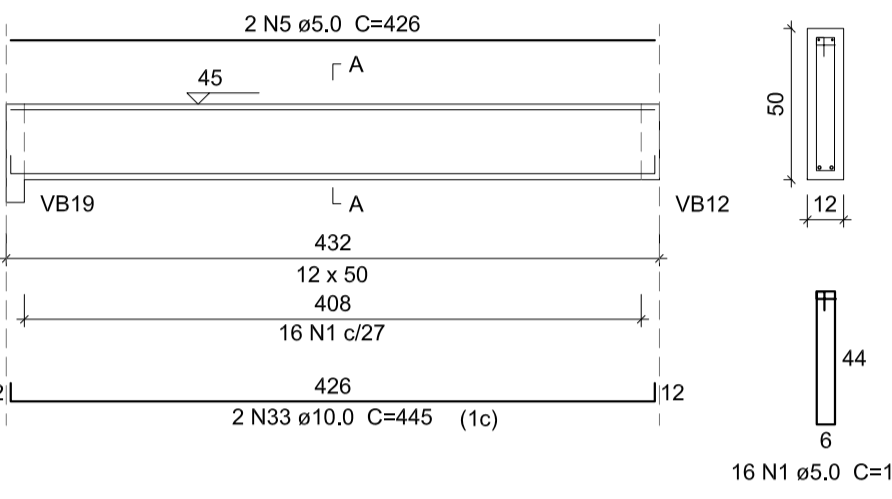
VB57
ESC 1:50



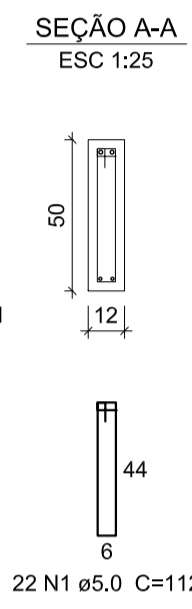
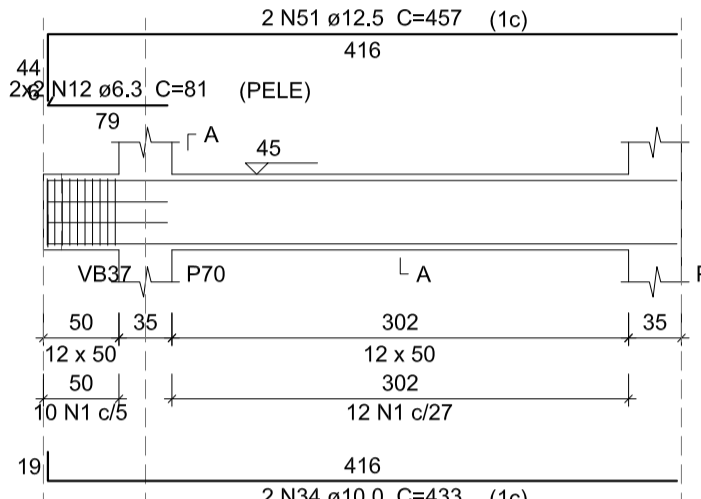
VB60
ESC 1:50



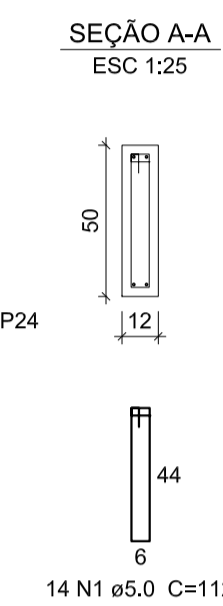
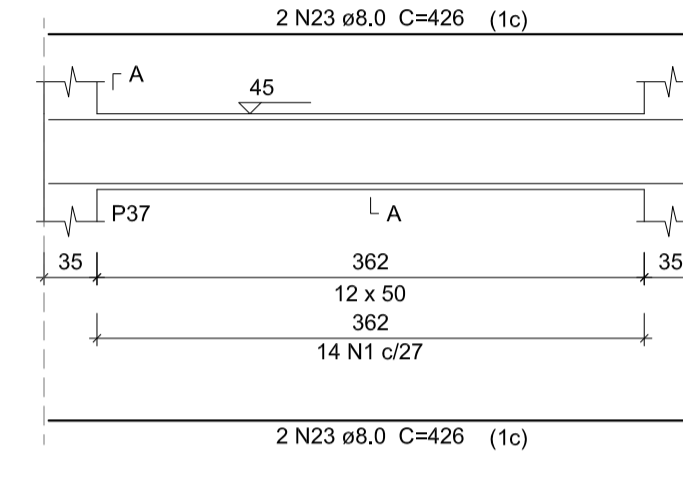
VB58
ESC 1:50



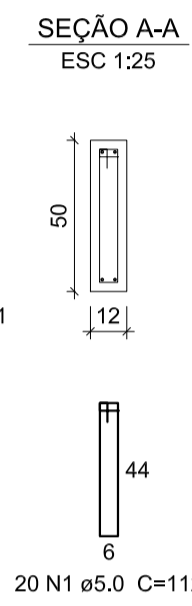
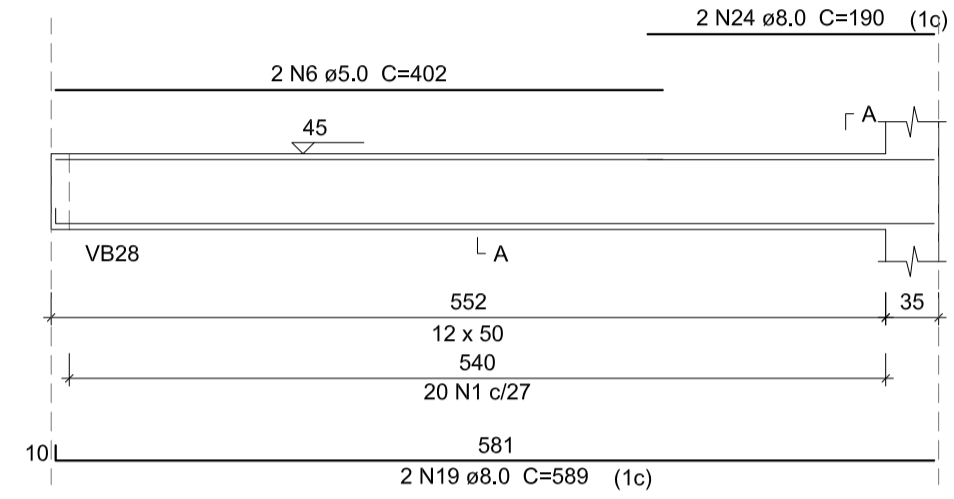
VB59
ESC 1:50



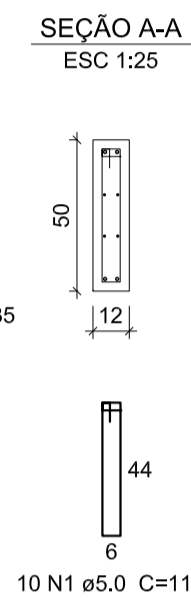
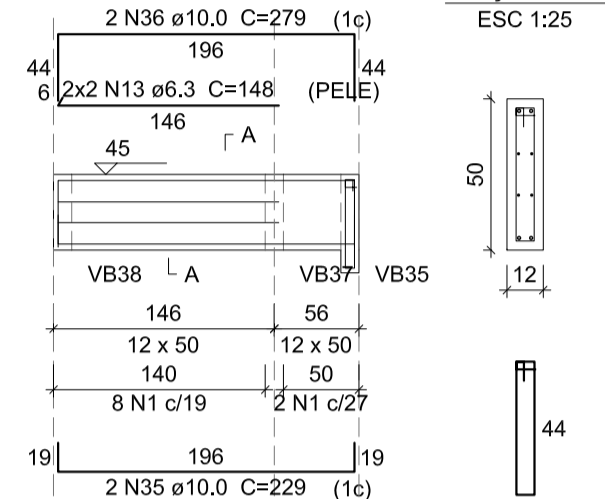
VB61
ESC 1:50



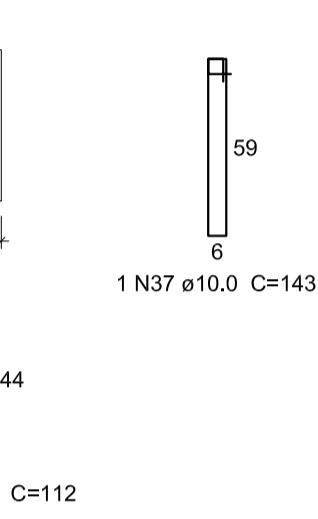
VB62
ESC 1:50



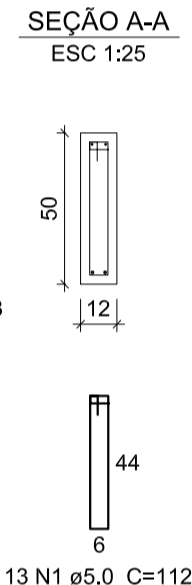
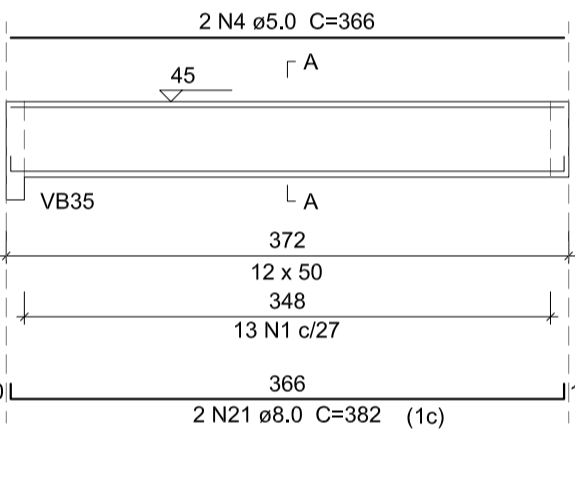
VB68
ESC 1:50



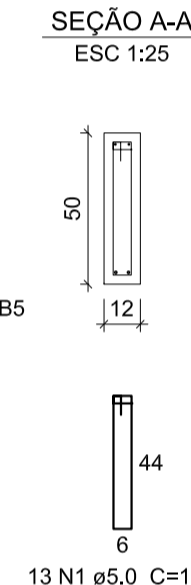
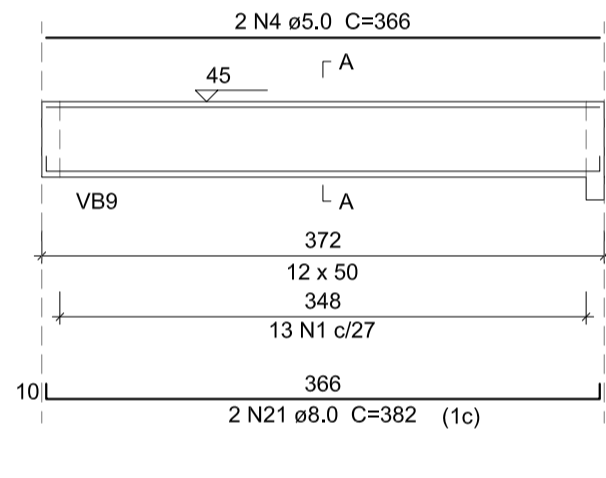
SUSPENSÃO VB35
ESC 1:25



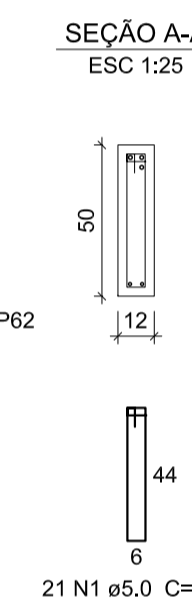
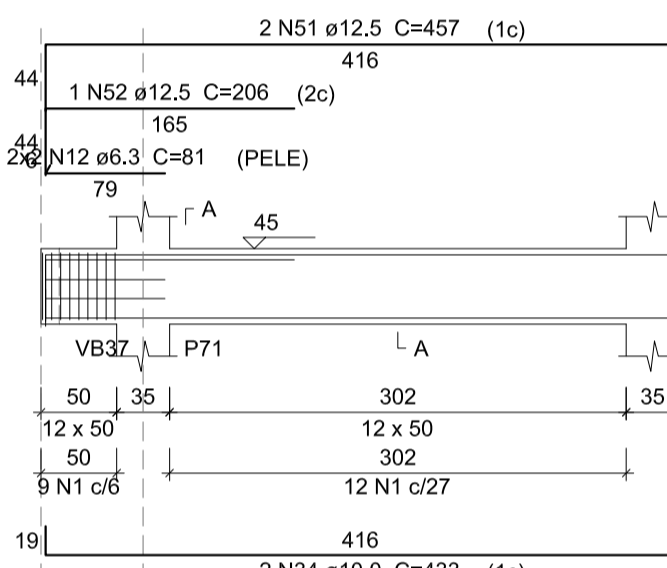
VB63
ESC 1:50



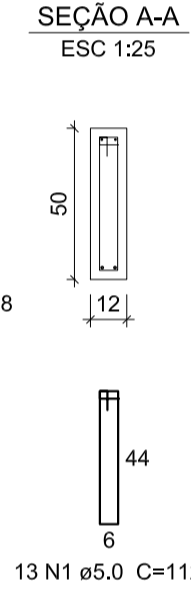
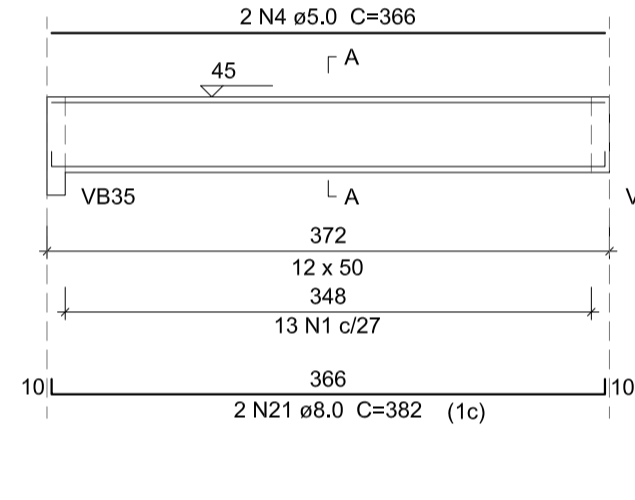
VB64
ESC 1:50



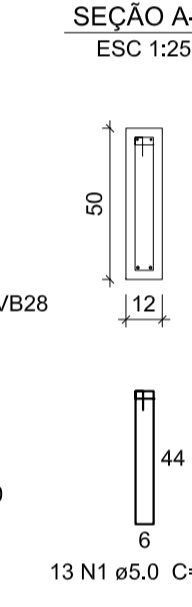
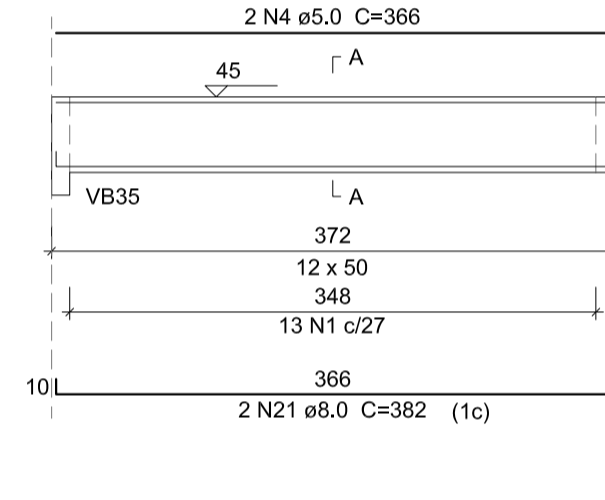
VB65
ESC 1:50



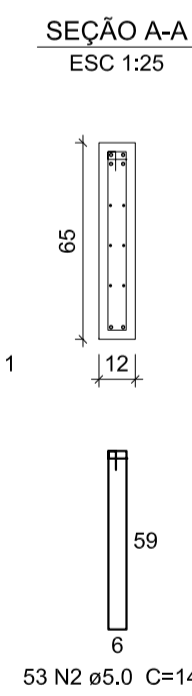
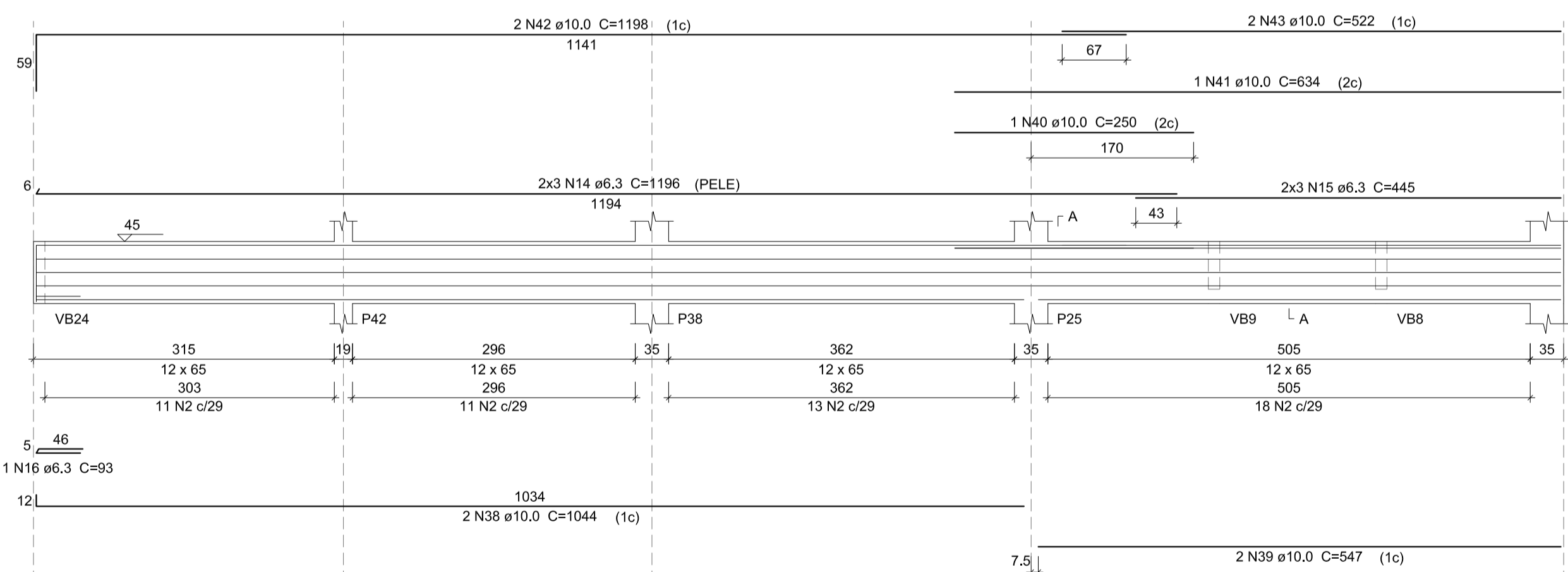
VB67
ESC 1:50



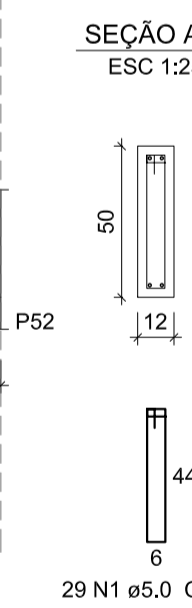
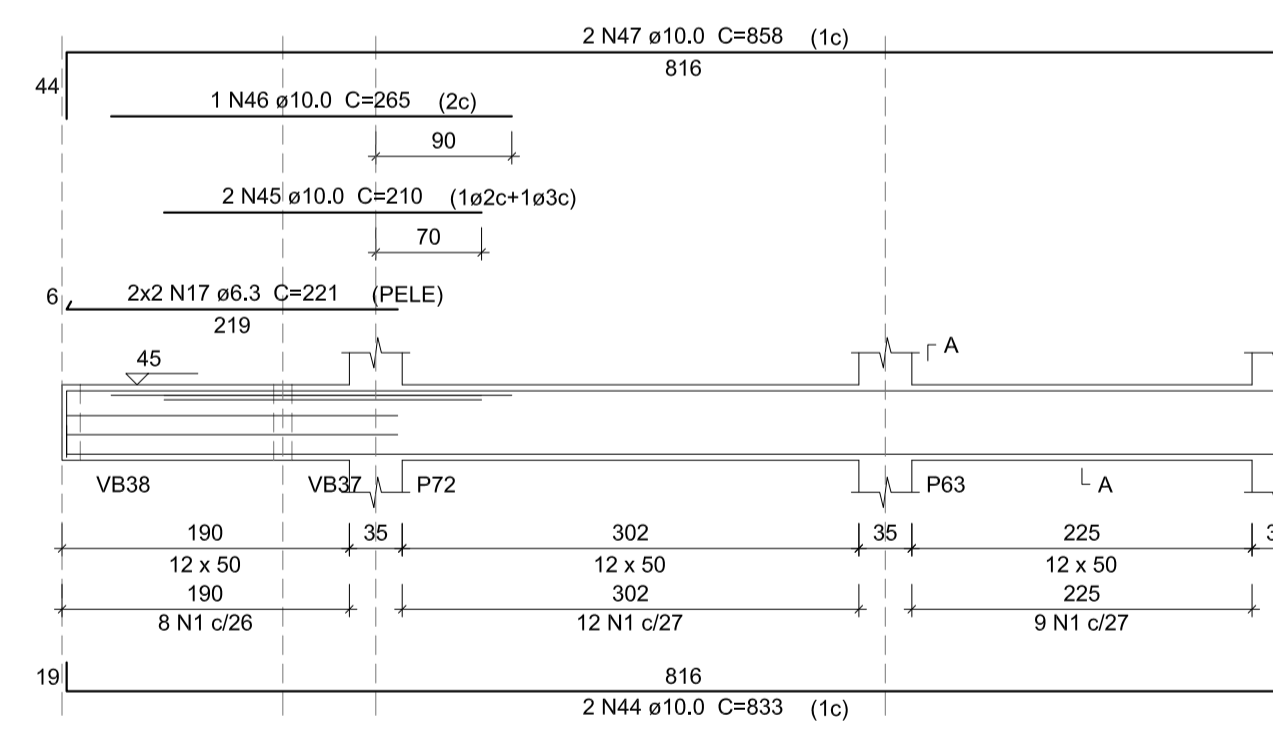
VB70
ESC 1:50



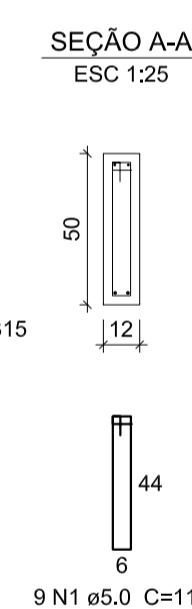
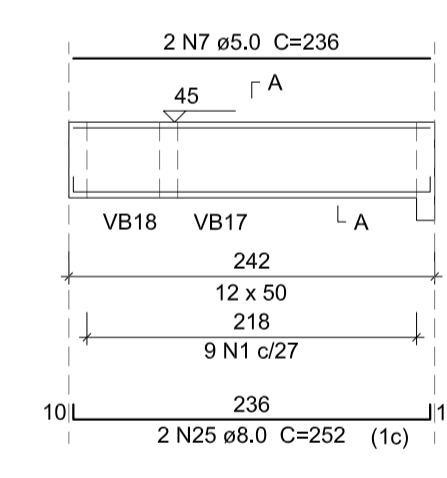
VB69
ESC 1:50



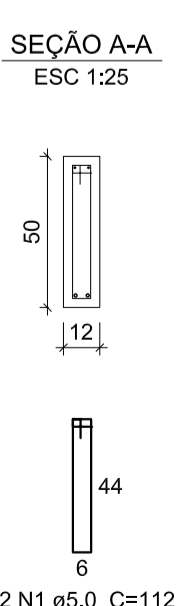
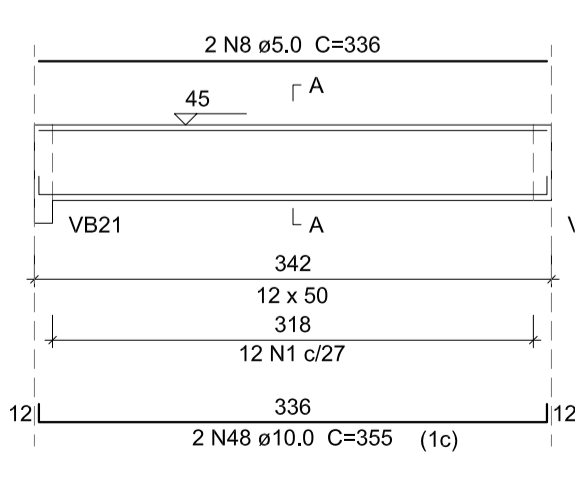
VB71
ESC 1:50



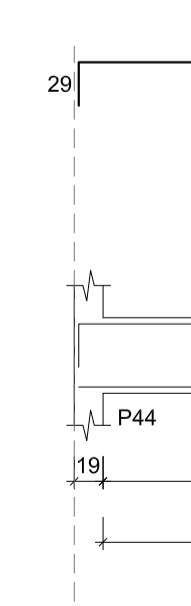
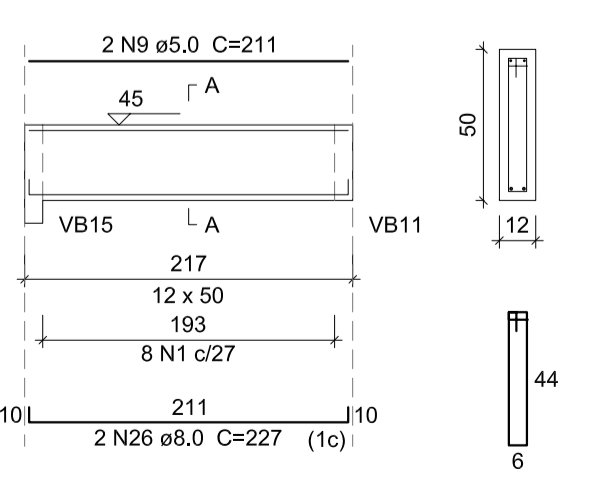
VB73
ESC 1:50



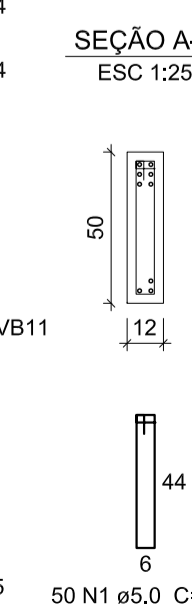
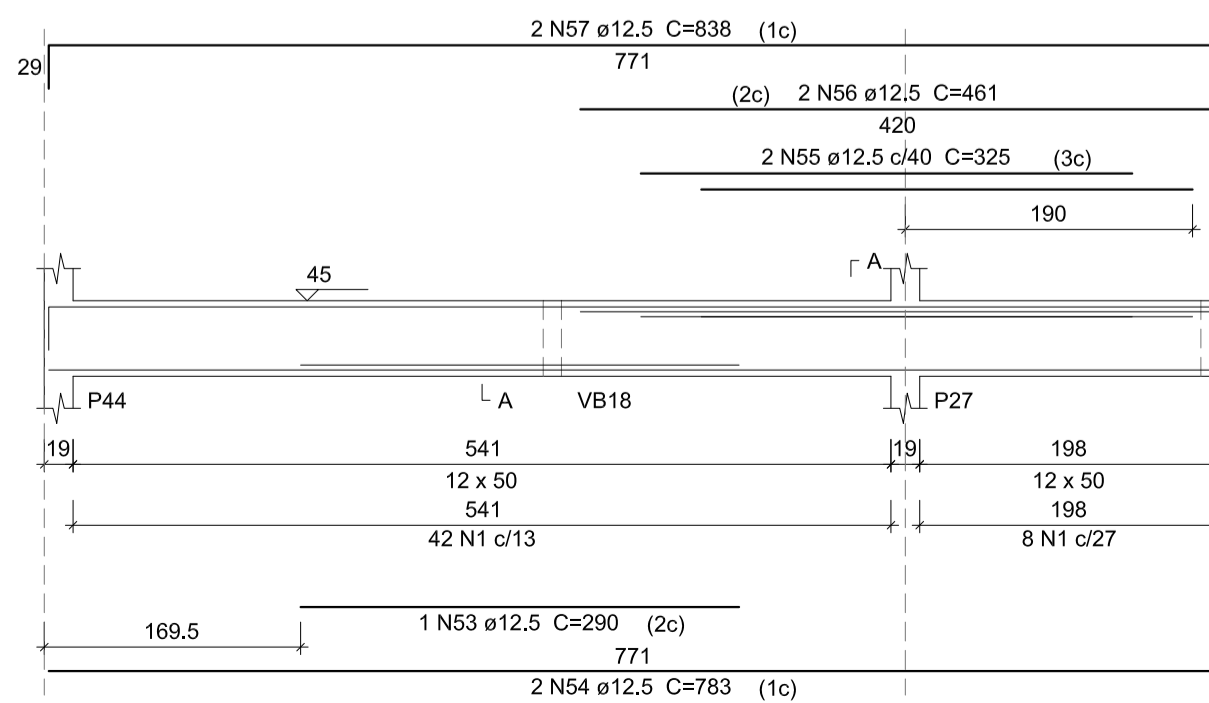
VB74
ESC 1:50



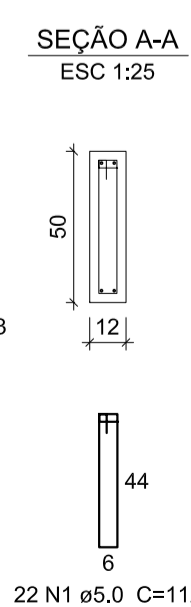
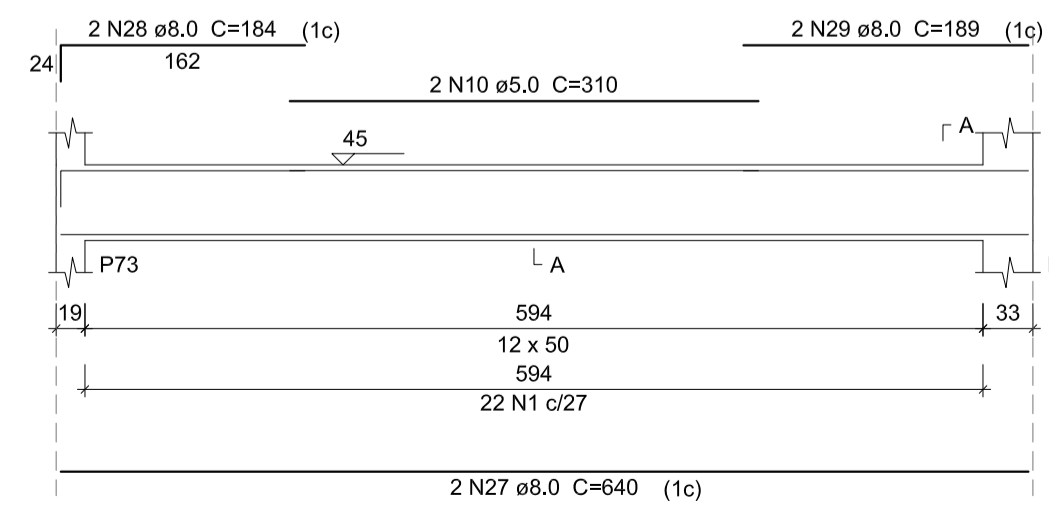
VB75
ESC 1:50



VB76
ESC 1:50



VB77
ESC 1:50



Relação do aço

| CAO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|------|----|-----------|-------|-------------|--------------|
| CA60 | 1 | 5.0 | 332 | 112 | 37194 |
| | 2 | 5.0 | 83 | 142 | 11786 |
| | 3 | 5.0 | 2 | 422 | 844 |
| | 4 | 5.0 | 10 | 366 | 3660 |
| | 5 | 5.0 | 2 | 426 | 852 |
| | 6 | 5.0 | 2 | 402 | 804 |
| | 7 | 5.0 | 4 | 148 | 592 |
| | 8 | 5.0 | 2 | 236 | 472 |
| | 9 | 5.0 | 2 | 336 | 672 |
| | 10 | 5.0 | 2 | 211 | 422 |
| | 11 | 6.3 | 6 | 941 | 5646 |
| | 12 | 6.3 | 8 | 81 | 648 |
| | 13 | 6.3 | 4 | 148 | 592 |
| | 14 | 6.3 | 6 | 1196 | 7176 |
| | 15 | 6.3 | 6 | 445 | 2670 |
| | 16 | 6.3 | 1 | 93 | 93 |
| | 17 | 6.3 | 4 | 221 | 884 |
| | 18 | 8.0 | 1 | 306 | 306 |
| | 19 | 8.0 | 4 | 589 | 2356 |
| | 20 | 8.0 | 2 | 170 | 340 |
| | 21 | 8.0 | 10 | 382 | 3820 |
| | 22 | 8.0 | 4 | 366 | 1464 |
| | 23 | 8.0 | 4 | 426 | 1704 |
| | 24 | 8.0 | 2 | 190 | 380 |
| | 25 | 8.0 | 2 | 252 | 504 |
| | 26 | 8.0 | 2 | 227 | 454 |
| | 27 | 8.0 | 2 | 640 | 1280 |
| | 28 | 8.0 | 2 | 184 | 368 |
| | 29 | 8.0 | 2 | 189 | 378 |
| | 30 | 10.0 | 2 | 262 | 524 |
| | 31 | 10.0 | 2 | 99 | 198 |
| | 32 | 10.0 | 2 | 951 | 1902 |
| | 33 | 10.0 | 2 | 445 | 890 |
| | 34 | 10.0 | 4 | 433 | 1732 |
| | 35 | 10.0 | 2 | 229 | 458 |
| | 36 | 10.0 | 2 | 279 | 558 |
| | 37 | 10.0 | 1 | 143 | 143 |
| | 38 | 10.0 | 2 | 1044 | 2088 |
| | 39 | 10.0 | 2 | 547 | 1094 |
| | 40 | 10.0 | 1 | 250 | 250 |
| | 41 | 10.0 | 1 | 634 | 634 |
| | 42 | 10.0 | 2 | 1198 | 2396 |
| | 43 | 10.0 | 2 | 522 | 1044 |
| | 44 | 10.0 | 2 | 833 | 1666 |
| | 45 | 10.0 | 2 | 210 | 420 |
| | 46 | 10.0 | 1 | 265 | 265 |
| | 47 | 10.0 | 2 | 858 | 1716 |
| | 48 | 10.0 | 2 | 355 | 710 |
| | 49 | 12.5 | 2 | 648 | 1296 |
| | 50 | 12.5 | 2 | 180 | 360 |
| | 51 | 12.5 | 4 | 457 | 1828 |
| | 52 | 12.5 | 1 | 206 | 206 |
| | 53 | 12.5 | 1 | 290 | 290 |
| | 54 | 12.5 | 2 | 783 | 1566 |
| | 55 | 12.5 | 2 | 325 | 650 |
| | 56 | 12.5 | 2 | 461 | 922 |
| | 57 | 12.5 | 2 | 838 | 1676 |

Resumo do aço

| CAO | DIAM (mm) | C.TOTAL (m) | PESO + 5 % (kg) |
|-----------------|-----------|-------------|-----------------|
| CA50 | 6.3 | 177.1 | 45.5 |
| | 8.0 | 133.6 | 55.3 |
| | 10.0 | 198.9 | 121 |
| | 12.5 | 88 | 89 |
| CA60 | 5.0 | 573.2 | 92.8 |
| PESO TOTAL (kg) | | | |
| CA50 | | 310.8 | |
| CA60 | | 92.8 | |

Volume de concreto (C-30) = 7.03 m³
Área de forma = 130.36 m²

- NOTAS:**
- CLASSE DE AGRESSIVIDADE AMBIENTAL III (FORTE)
 - CONCRETO C30 (f_{cd} = 300 kgf/cm²)
 - MÓDULO DE ELASTICIDADE DO CONCRETO E_{cs} = 28000 kgf/cm²
 - FATOR ALPHA CIMENTO EM MASSA = 0.85
 - CONTROLE DE PROCEDOIMENTOS NAS OPERAÇÕES DOS ELEMENTOS
 - A ESTRUTURA DEVERÁ RECEBER REVESTIMENTO EM ARGAMASSA E FERRUGEM
 - REFORÇAMENTO DAS ARMADURAS DE VIGAS, PILARES E LAJEIS (SEM) FERRUGEM 4.00%
 - CONFERRIR TODAS AS MEDIDAS NO LOCAL
 - TODAS AS COTAS ESTÃO EM CENTÍMETROS
 - MODO DE CARREGAMENTO PRETENDIDO: 2R, 2S
 - EM CASO DE DÚVIDAS CONSULTE O AUTOR DO PROJETO
 - ESTE PROJETO NÃO PODERÁ SER UTILIZADO SEM AUTORIZAÇÃO DE SEU RESPONSÁVEL TÉCNICO

| | | | |
|--|---|--------------|------------------|
| Rev_00 | Emissão Inicial do Projeto Executivo | eng. Marcos | Setembro/2017 |
| Nº | REGISTRO DE MODIFICAÇÕES | VISTO | DATA |
| Cliente: ESTADO DE SANTA CATARINA PREFEITURA MUNICIPAL DE BOMBINHAS | | | |
| Empreendimento: UPA - Policlínica Municipal José Olímpio | | | |
| Endereço: Avenida Falcão, 755 - Bairro José Amândio - Bombinhas/SC | | | |
| Projeto: | Projeto Estrutural | Data: | setembro/2017 |
| Coordenado: | Detalhamento das Vigas - Pav. Térreo | Desenho: | Eng. Marcos |
| Elaboração: | | Coordenação: | Arq. Sérgio |
| | | Responsável: | Eng. Marcos |
| | | Software: | Eberick V10 Next |
| Responsáveis Técnicos: SÉRGIO GUILHERME GOLLNICK (PROJETISTA SENIAL) DAVIS NASS DOS SANTOS (PROJETISTA SENIAL) MARCOS ROBERTO STRAMARI (PROJETISTA SENIAL) | | | |

Detalhamento das Vigas

escala 1:50 e 1:25