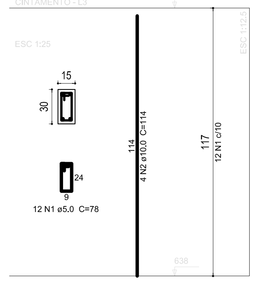
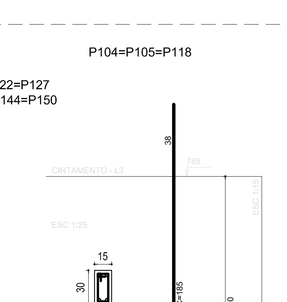
CRIADO POR UM PRODUTO EDUCACIONAL DA AUTODESK

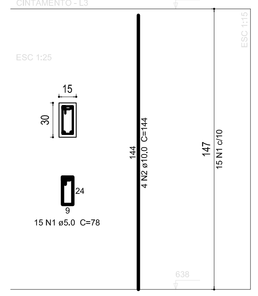
P101=P102=P103=P108=P109=P117=P122=P127
=P129=P130=P133=P138=P139=P143=P144=P150
=P152=P156



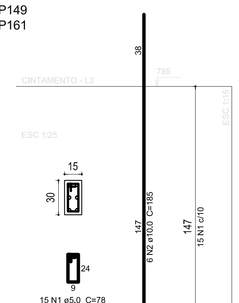

P104=P105=P118



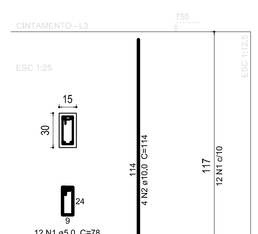

P106=P107=P110=P111=P112=P113=P114=P116
=P123=P125=P128=P134=P140=P145=P146=P149
=P151=P154=P155=P157=P158=P159=P160=P161
=P162



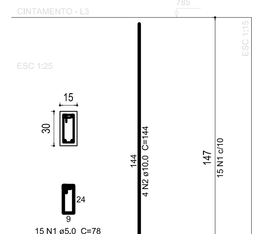

P119



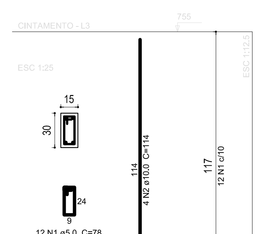

P121




P124=P135=P136=P147




P126=P132




Relação do aço

| ELEMENTO | AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|---|
| 18xP101 | CA60 | 1 | 5,0 | 216 | 78 | 16848 |
| | CA50 | 2 | 10,0 | 72 | 114 | 8208 |
| 3xP104 | CA60 | 1 | 5,0 | 45 | 78 | 3510 |
| | CA50 | 2 | 10,0 | 12 | 185 | 2220 |
| 25xP106 | CA60 | 1 | 5,0 | 375 | 78 | 29250 |
| | CA50 | 2 | 10,0 | 100 | 144 | 14400 |
| P119 | CA60 | 1 | 5,0 | 15 | 78 | 1170 |
| | CA50 | 2 | 10,0 | 6 | 185 | 1110 |
| P121 | CA60 | 1 | 5,0 | 12 | 78 | 936 |
| | CA50 | 2 | 10,0 | 4 | 114 | 456 |
| 4xP124 | CA60 | 1 | 5,0 | 60 | 78 | 4680 |
| | CA50 | 2 | 10,0 | 16 | 144 | 2304 |
| 2xP126 | CA60 | 1 | 5,0 | 24 | 78 | 1872 |
| | CA50 | 2 | 10,0 | 8 | 114 | 912 |

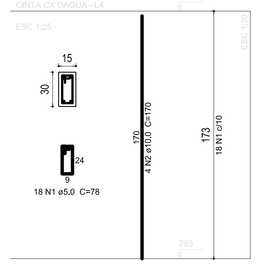
Resumo do aço

| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 10,0 | 296,1 | 200,8 |
| CA60 | 5,0 | 582,7 | 98,8 |
| PESO TOTAL | | | |
| CA50 | 200,8 | | |
| CA60 | 98,8 | | |

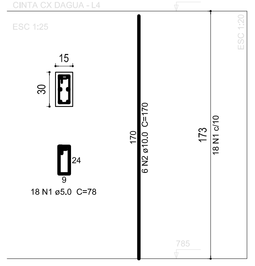
Vol. de concreto total (C-25) = 3,29 m³
Área de forma total = 65,77 m²

PILARES CINTAMENTO

P104=P105=P118




P119




Relação do aço

| ELEMENTO | AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|---|
| 3xP104 | CA60 | 1 | 5,0 | 54 | 78 | 4212 |
| | CA50 | 2 | 10,0 | 12 | 170 | 2040 |
| P119 | CA60 | 1 | 5,0 | 18 | 78 | 1404 |
| | CA50 | 2 | 10,0 | 6 | 170 | 1020 |

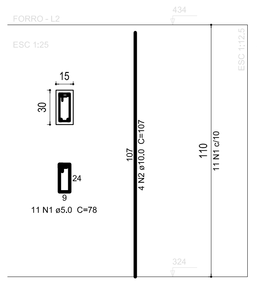
Resumo do aço

| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 10,0 | 30,6 | 20,8 |
| CA60 | 5,0 | 56,2 | 9,5 |
| PESO TOTAL | | | |
| CA50 | 20,8 | | |
| CA60 | 9,5 | | |

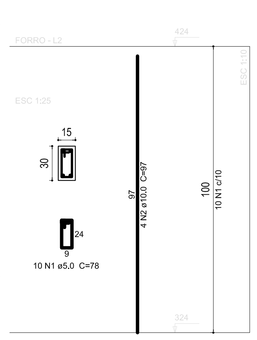
Vol. de concreto total (C-25) = 0,31 m³
Área de forma total = 6,23 m²

PILARES CXA D'ÁGUA

P115=P120=P131=P141=P142




P137=P148=P153=P163=P164=P165




Relação do aço

| ELEMENTO | AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|---|
| 5xP115 | CA60 | 1 | 5,0 | 55 | 78 | 4290 |
| | CA50 | 2 | 10,0 | 20 | 107 | 2140 |
| 6xP137 | CA60 | 1 | 5,0 | 60 | 78 | 4680 |
| | CA50 | 2 | 10,0 | 24 | 97 | 2328 |

Resumo do aço

| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 10,0 | 44,7 | 30,3 |
| CA60 | 5,0 | 89,7 | 15,2 |
| PESO TOTAL | | | |
| CA50 | 30,3 | | |
| CA60 | 15,2 | | |

Vol. de concreto total (C-25) = 0,52 m³
Área de forma total = 10,35 m²

PILARES PLATIBANDA BAIXA

# ENGENHARIA

RESPONSAVEL TÉCNICO: ENGENHEIRO CIVIL ATALIBA MACHADO ALMIRON - CREA 121.346 D
Rua Guilherme Gewehr, 31 - CEP 96820-000 - Santa Cruz do Sul/RS - Fone: (51) 8002-4949 - e-mail: ataliba@vivavile.com.br

OBRA
CONSÓRCIO INTERMUNICIPAL DE SERVIÇOS
DO VALE DO RIO PARDO - CISVALE

PRESIDENTE DO CONSELHO DE ADMINISTRAÇÃO DO CISVALE
PREFEITO TELMO KIRST

RESPONSAVEL PROJETO
ATALIBA MACHADO ALMIRON
ENG.CIVIL - CREA 121.346 D

| LOCAL | DATA | AREA |
|---|---|---|
| RUA ERNESTO ALVES, Nº 675 SANTA CRUZ DO SUL | OUTUBRO/2015 | 880,57 m² |

| DESCRIMINAÇÃO | ESCALA | PRANCHA |
|---|---|---|
| PILARES DO CINTAMENTO | 1/50 | EST 15 |

CRIADO POR UM PRODUTO EDUCACIONAL DA AUTODESK
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