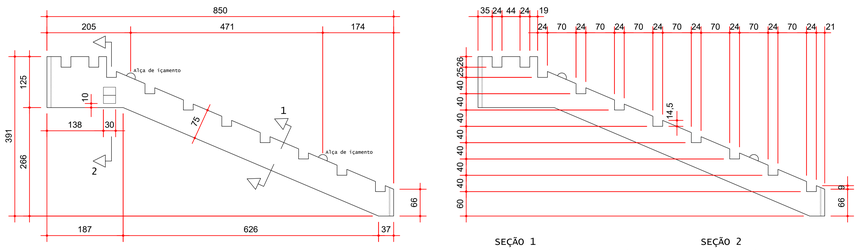
## VJ05 (x2)

ELEVAÇÃO

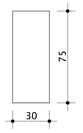




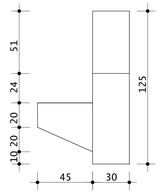


PLANTA

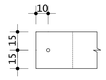
SEÇÃO 1



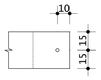

SEÇÃO 2




FURO INICIAL
(38 mm)




FURO FINAL
(38 mm)




| AÇO | POS | BIT (mm) | QUANT | COMPRIMENTO UNIT (cm) | COMPRIMENTO TOTAL (cm) |
|---|---|---|---|---|---|
| VJ05 | | | | | |
| 50A | 1 | 25,0 | 5 | 915 | 4575 |
| 50A | 2 | 10,0 | 5 | 310 | 1550 |
| 50A | 3 | 8,0 | 4 | 216 | 864 |
| 50A | 4 | 10,0 | 4 | 931 | 3724 |
| 50A | 5 | 8,0 | 4 | 119 | 476 |
| 50A | 6 | 8,0 | 4 | 130 | 520 |
| 50A | 7 | 8,0 | 28 | 151 | 4228 |
| 50A | 8 | 8,0 | 4 | 107 | 428 |
| 50A | 9 | 10,0 | 4 | 890 | 3560 |
| 50A | 11 | 8,0 | 3 | 123 | 369 |
| 50A | 12 | 8,0 | 24 | 70 | 1680 |
| 50A | 13 | 8,0 | 40 | 214 | 8560 |
| 50A | 14 | 8,0 | 6 | VAR | 1170 |
| 50A | 15 | 8,0 | 12 | 176 | 2112 |
| 50A | 16 | 8,0 | 2 | 200 | 400 |
| 50A | 17 | 8,0 | 4 | 248 | 992 |
| 50A | 18 | 8,0 | 9 | 300 | 2700 |
| 50A | 21 | 16,0 | 4 | 111 | 444 |
| 50A | 22 | 16,0 | 1 | 25 | 25 |
| 50A | 23 | 10,0 | 3 | 238 | 714 |
| 50A | 24 | 10,0 | 1 | 200 | 200 |
| 50A | 25 | 10,0 | 1 | 164 | 164 |
| 50A | 26 | 6,3 | 1 | 124 | 124 |
| 50A | 27 | 6,3 | 1 | 112 | 112 |
| 50A | 28 | 6,3 | 1 | 98 | 98 |
| 50A | 29 | 6,3 | 2 | 79 | 158 |
| 50A | 30 | 12,5 | 1 | 71 | 71 |

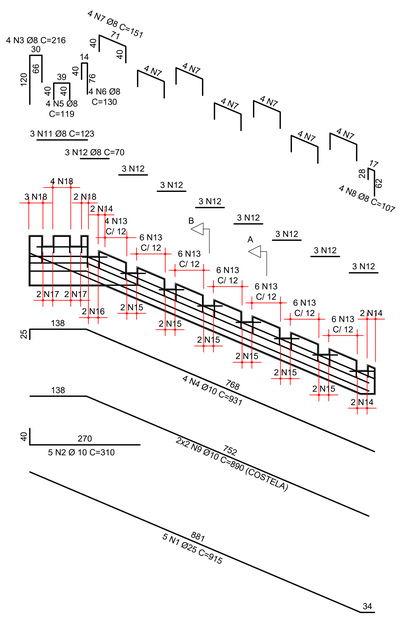
| RESUMO AÇO CA 50-60 | | | |
|---|---|---|---|
| AÇO | BIT (mm) | COMP. (m) | PESO (kg) |
| 50A | 6,3 | 5 | 2 |
| 50A | 8,0 | 245 | 98 |
| 50A | 10,0 | 100 | 63 |
| 50A | 12,5 | 1 | 1 |
| 50A | 16,0 | 5 | 8 |
| 50A | 25,0 | 46 | 183 |

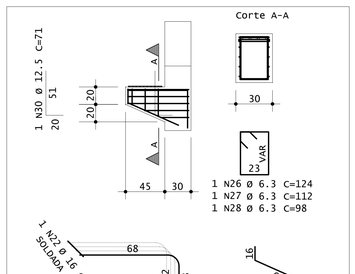
| | |
|---|---|
| Peso Total (1x) = | 355 kg |
| Peso Total (2x) = | 710 kg |

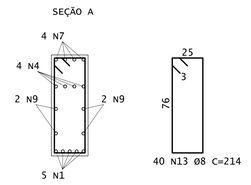
| Pavimento | Quant | Volume m3 | Área de forma m2 |
|---|---|---|---|
| ARQUIBANCADA | 1 | 2,12 | 18,75 |
| TOTAIS | 2 | 4,24 | 37,5 |

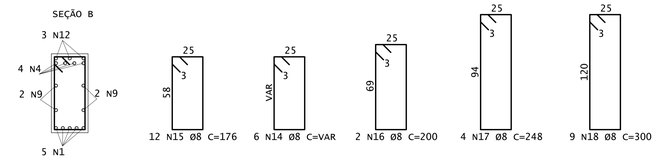
## VJ05 (x2)

ARMADURA



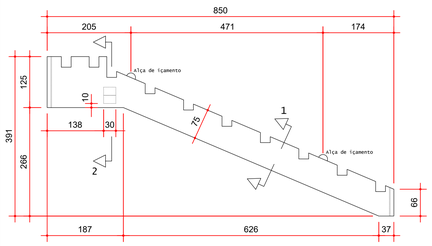



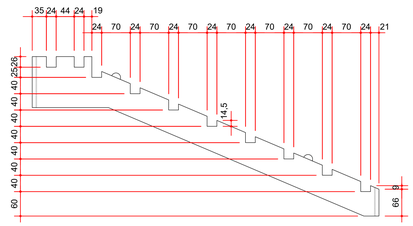




## VJ15 (x2)

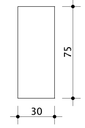
ELEVAÇÃO



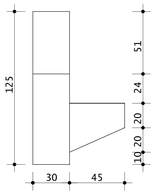




PLANTA

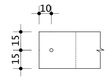
SEÇÃO 1



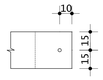

SEÇÃO 2




FURO INICIAL
(38 mm)




FURO FINAL
(38 mm)




| AÇO | POS | BIT (mm) | QUANT | COMPRIMENTO UNIT (cm) | COMPRIMENTO TOTAL (cm) |
|---|---|---|---|---|---|
| VJ15 | | | | | |
| 50A | 1 | 25,0 | 5 | 915 | 4575 |
| 50A | 2 | 10,0 | 5 | 310 | 1550 |
| 50A | 3 | 8,0 | 4 | 216 | 864 |
| 50A | 4 | 10,0 | 4 | 931 | 3724 |
| 50A | 5 | 8,0 | 4 | 119 | 476 |
| 50A | 6 | 8,0 | 4 | 130 | 520 |
| 50A | 7 | 8,0 | 28 | 151 | 4228 |
| 50A | 8 | 8,0 | 4 | 107 | 428 |
| 50A | 9 | 10,0 | 4 | 890 | 3560 |
| 50A | 11 | 8,0 | 3 | 123 | 369 |
| 50A | 12 | 8,0 | 24 | 70 | 1680 |
| 50A | 13 | 8,0 | 40 | 214 | 8560 |
| 50A | 14 | 8,0 | 6 | VAR | 1170 |
| 50A | 15 | 8,0 | 12 | 176 | 2112 |
| 50A | 16 | 8,0 | 2 | 200 | 400 |
| 50A | 17 | 8,0 | 4 | 248 | 992 |
| 50A | 18 | 8,0 | 9 | 300 | 2700 |
| 50A | 21 | 16,0 | 4 | 111 | 444 |
| 50A | 22 | 16,0 | 1 | 25 | 25 |
| 50A | 23 | 10,0 | 3 | 238 | 714 |
| 50A | 24 | 10,0 | 1 | 200 | 200 |
| 50A | 25 | 10,0 | 1 | 164 | 164 |
| 50A | 26 | 6,3 | 1 | 124 | 124 |
| 50A | 27 | 6,3 | 1 | 112 | 112 |
| 50A | 28 | 6,3 | 1 | 98 | 98 |
| 50A | 29 | 6,3 | 2 | 79 | 158 |
| 50A | 30 | 12,5 | 1 | 71 | 71 |

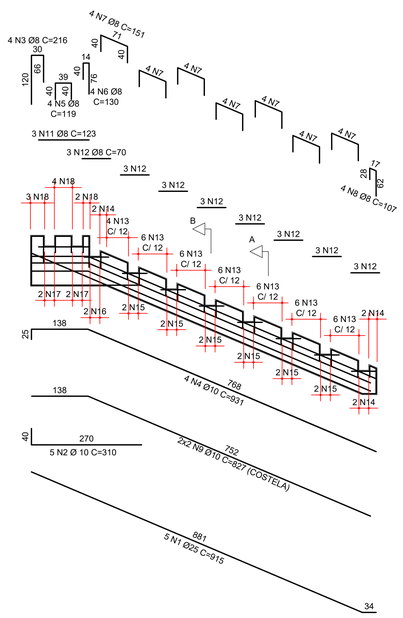
| RESUMO AÇO CA 50-60 | | | |
|---|---|---|---|
| AÇO | BIT (mm) | COMP. (m) | PESO (kg) |
| 50A | 6,3 | 5 | 2 |
| 50A | 8,0 | 245 | 98 |
| 50A | 10,0 | 100 | 63 |
| 50A | 12,5 | 1 | 1 |
| 50A | 16,0 | 5 | 8 |
| 50A | 25,0 | 46 | 183 |

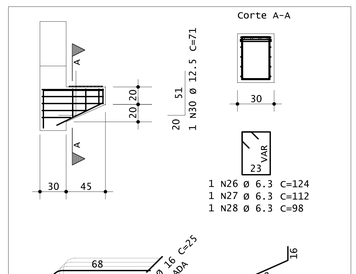
| | |
|---|---|
| Peso Total (1x) = | 355 kg |
| Peso Total (2x) = | 710 kg |

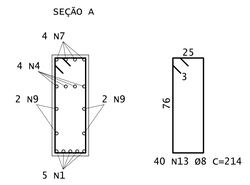
| Pavimento | Quant | Volume m3 | Área de forma m2 |
|---|---|---|---|
| ARQUIBANCADA | 1 | 2,12 | 18,75 |
| TOTAIS | 2 | 4,24 | 37,5 |

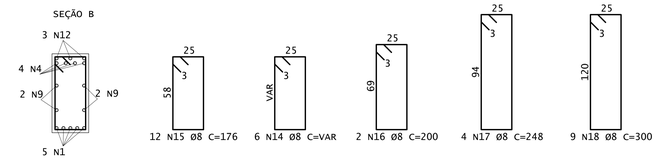
## VJ15 (x2)

ARMADURA




WELIGTONN RENANN TAVARES: 00959132970

Assinado digitalmente por WELIGTONN RENANN TAVARES:00959132970
DN: C=BR, O=ICP-Brasil, OU=VideoConferencia, OU=29196550000100, OU=Secretaria da Receita Federal do Brasil - RFB, OU=RFB e-CPF A1, OU=(em branco), CN=WELIGTONN RENANN TAVARES: 00959132970
Razão: Eu sou o autor deste documento
Data: 2022-04-05 14:36:54

NOTAS DE PROJETO:

1. DIMENSÕES EM CM, EXCETO ONDE INDICADO.
2. O CONCRETO UTILIZADO DEVERÁ SER DA CLASSE C30 CONFORME DISCRIMINADO NA NBR 6118 (ABNT, 2014).
3. A MOVIMENTAÇÃO DAS LAJES DE ARQUIBANCADA SOMENTE PODE SER REALIZADA QUANDO O CONCRETO ATINGIR RESISTÊNCIA À COMPRESSÃO (fcj) DE 21 MPa.
4. A ESTABILIDADE DAS ARQUIBANCADAS E DA ESTRUTURA, DURANTE O PROCESSO CONSTRUTIVO, DEVERÁ SER AVALIADA PELO CONSTRUTOR.

| REV | DESCRIÇÃO | DESENHO | APROV. | DATA |
|---|---|---|---|---|
| 2 | TABELA DE VOLUME E ÁREA DE FORMA | PJC | PJC | 25/03/2022 |
| 1 | REVISÃO GERAL | PJC | PJC | 20/09/2019 |
| 0 | INICIAL | PJC | PJC | 23/08/2019 |

Projeto estrutural

PROJECALC ENGENHARIA

CURITIBA - PR (41) 3013-4787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CREA PR 134229/D
contato: matheus@projecalc.com.br


Obra

GINÁSIO DE ESPORTES PATO BRANCO

PROJETO EXECUTIVO

FORMAS E ARMADURAS - VIGAS JACARÉ

VJ05 E VJ15

Proprietário
PREFEITURA MUNICIPAL DE PATO BRANCO

Endereço
RUA BENJAMIN BORGES, BAIRRO FRARON, PATO BRANCO - PR

Escala: INDICADA
Data: 09/2019

NÚMERO
D-032-CJ-002