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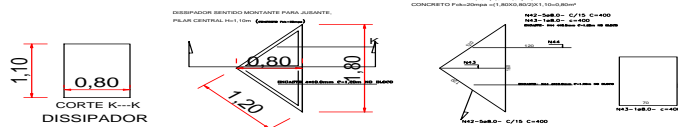
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| LISTA DE FERROS - AÇO CA-50 |     |   |                  |       | RESUMO GERAL |          |             |            |
|-----------------------------|-----|---|------------------|-------|--------------|----------|-------------|------------|
| POS.                        | Ø   | Q | COMPRIMENTO (cm) |       | Ø(mm)        | COMP.(m) | PESO (Kg/m) | TOTAL (Kg) |
|                             |     |   | UNIT.            | TOTAL |              |          |             |            |
| 42                          | 8.0 | 5 | 400              | 2000  | 8.0          | 28,80    | 0,395       | 11,38      |
| 43                          | 8.0 | 1 | 400              | 400   |              |          |             |            |
| 44                          | 8.0 | 4 | 120              | 480   |              |          |             |            |
|                             |     |   |                  | 2880  | TOTAL(Kg)    |          | 11,38       |            |

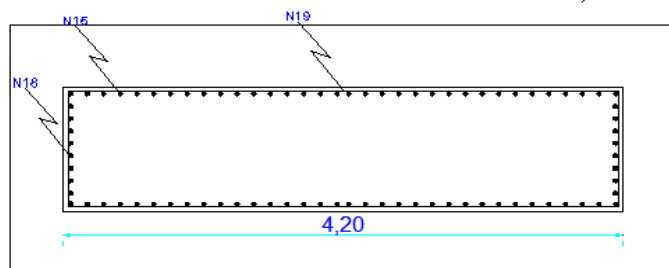


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| 2- | CABECEIRA |
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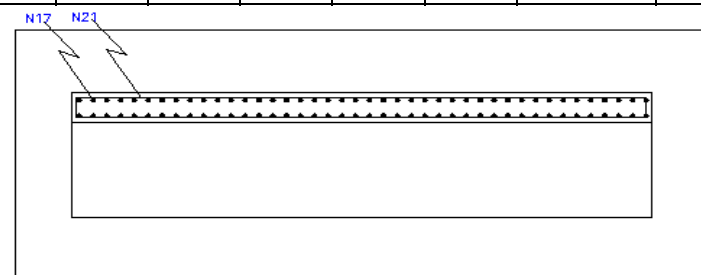
| LISTA DE FERROS - ACC CA-50 |      |     |                  | RESUMO GERAL |          |           |           | 2XN16-34ø12.5- C/12.5 C=1500 |  |
|-----------------------------|------|-----|------------------|--------------|----------|-----------|-----------|------------------------------|--|
| POS.                        | Ø    | Q   | COMPRIMENTO (cm) | Ø(mm)        | COMP.(m) | PESO (kg) | TOTAL (%) | 2XN17-34ø10.0- C/10 C=300    |  |
|                             |      |     | UNIT. TOTAL      |              |          |           |           | 2XN18-8ø12.5- C/10 C=1800    |  |
| 16                          | 12.5 | 88  | 1.500            | 102,40       | 6.3      | 704       | 0,245     | 2XN19-32ø6.3- C/15 C=1100    |  |
| 17                          | 10.0 | 88  | 300              | 20,00        | 12.5     | 540       | 0,617     | 2XN20-28ø10.0- C/15 C=300    |  |
| 18                          | 12.5 | 88  | 1.500            | 102,40       |          | 1788      | 0,987     | 1,729                        |  |
| 19                          | 6.3  | 84  | 1.100            | 70,40        |          |           |           |                              |  |
| 20                          | 10.0 | 112 | 300              | 33,60        |          |           |           |                              |  |
| 21                          | 12.5 | 18  | 900              | 14,40        |          |           |           |                              |  |
| 22                          | 12.5 | 32  | 300              | 16,00        |          |           |           |                              |  |
| 23                          | 12.5 | 18  | 900              | 14,40        |          |           |           |                              |  |
|                             |      |     |                  | TOTAL=10%    |          | 2.457,40  |           |                              |  |
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FORMA DA BASE MADEIRITE RESINADO  
 $= 2 \times (2,0 \times 0,80) + 2 \times (5,0 \times 0,80) = 11,20 \text{m}^2$   
 FORMA FRONTAL E LATERAL DA  
 CORTINA MADEIRITE PLASTIFICADO 18mm  
 $= 2 \times (2 \times 1,0 \times 5,15) + 2 \times (4,20 \times 5,15) = (20,60 + 43,26) = 63,86 \text{m}^2$   
 FORMA MADEIRITE RESINADO  
 FACHADA POSTERIOR DA CORTINA  
 $= 2 \times (4,20 \times 6,15) + 2 \times (4,20 \times 0,85) = 59,00 \text{m}^2$   
 CONCRETO  $F_{ck} = 25 \text{mpa}$   
 BLOCO  $= 2 \times (5,0 \times 0,80 \times 2,00) = 16,00 \text{m}^3$   
 CORTINA  $= 2 \times [(1,00 \times 5,15) + (0,24 \times 0,84 \times 4,20)] = 12,00 \text{m}^3$

2XN19-32@6.3- C/15 C=11000

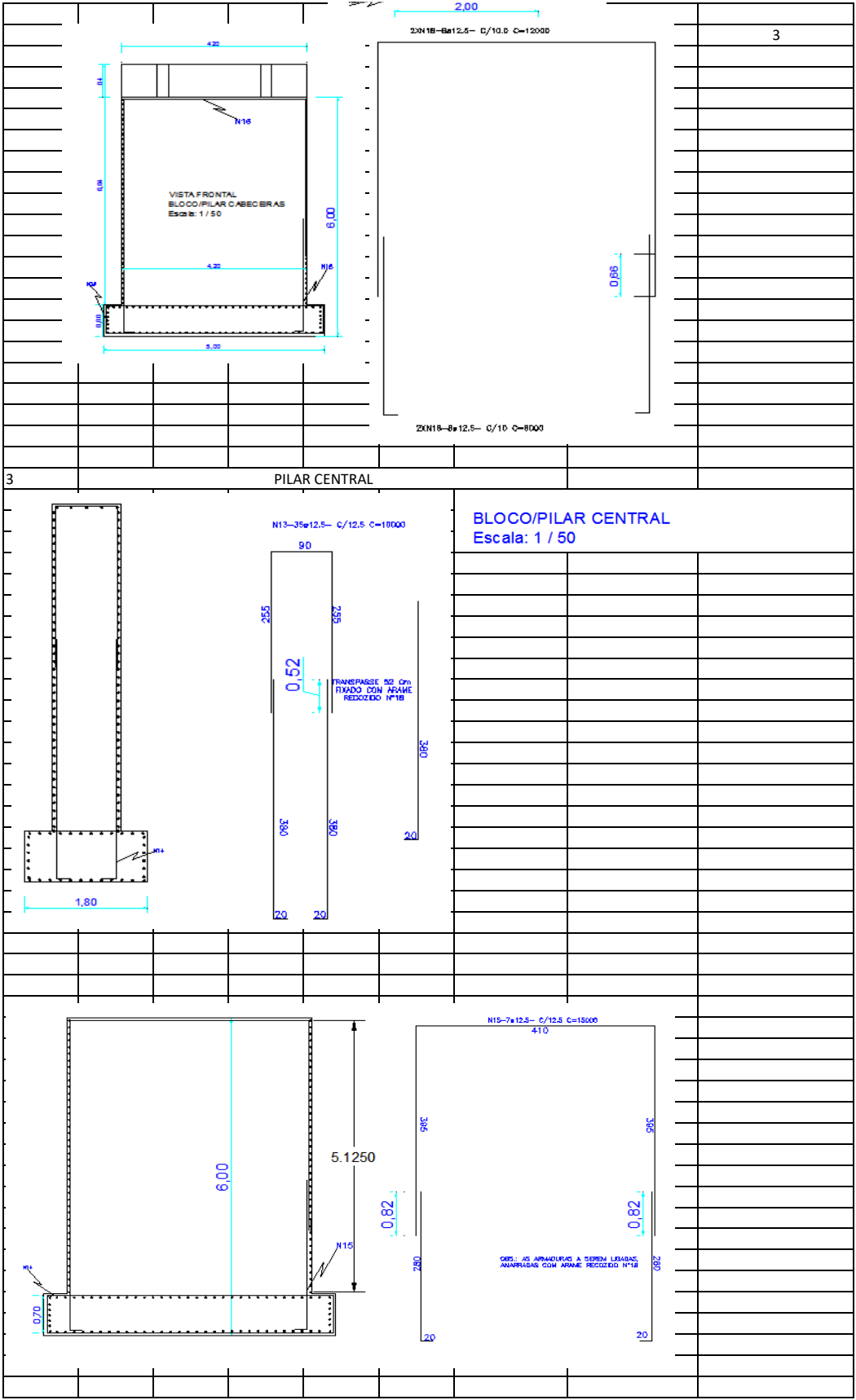


PLANTA BAIXA  
BLOCO/PILAR CABECEIRA NÍVEL 6,00m



PLANTA BAIXA  
BLOCO/PILAR CABECEIRA





|   |          | 4                           |                  |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
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| <p>PLANTA BAIXA<br/>BLOCO/PILAR CENTRAL</p> <p>4,75</p> <p>1,57</p> <p>N-12 ESTRIBO DO BLOCO<br/>10Ø6.3 A CADA 15 C=13000<br/>EMENDAS ALTERNADAS</p> <p>475</p>   |          |                             |                  |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| <p>475</p> <p>N10-12ø12.5- C/12.5 C=500</p> <p>BLOCO</p> <p>475</p> <p>N10-12ø12.5- C/12.5 C=800</p> <p>N11-32ø12.5- C/12.5 C=200</p> <p>155</p> <p>BLOCO</p> <p>155</p> <p>N11-32ø12.5- C/12.5 C=300</p> <p>100</p> <p>N-14 ESTRIBO DO PILAR<br/>CENTRAL 40Ø6.3 A CADA<br/>15 C=11000 EMENDAS<br/>ALTERNADAS<br/>TRANSPASSE DE 30+30</p> <p>420</p>  |          |                             |                  |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| <p>PILAR CENTRAL MOLDADO "IN LOCO"</p> <table><tr><th colspan="4">LISTA DE FERROS - AÇO CA-50</th></tr><tr><th>POS.</th><th>Ø</th><th>Q</th><th>COMPRIMENTO (cm)</th></tr><tr><th></th><th></th><th></th><th>UNIT. TOTAL</th></tr><tr><td>10</td><td>12.5</td><td>12</td><td>12000 144000</td></tr><tr><td>11</td><td>12.5</td><td>32</td><td>5000 160000</td></tr><tr><td>12</td><td>6.3</td><td>10</td><td>13000 130000</td></tr><tr><td>13</td><td>12.5</td><td>36</td><td>10000 360000</td></tr><tr><td>14</td><td>6.3</td><td>40</td><td>11000 440000</td></tr><tr><td>15</td><td>12.5</td><td>7</td><td>15000 105000</td></tr></table> <table><tr><th colspan="4">RESUMO GERAL</th></tr><tr><th>Ø(mm)</th><th>COMP (m)</th><th>PESO (Kg/m)</th><th>TOTAL (Kg)</th></tr><tr><td>6.3</td><td>570</td><td>0.245</td><td>140.00</td></tr><tr><td>12.5</td><td>759</td><td>0.967</td><td>754.00</td></tr><tr><td>20.0</td><td>96</td><td>2.466</td><td>237.00</td></tr><tr><td colspan="3">TOTAL+10%</td><td>1.222.00</td></tr></table> <p>OBS: As quantidades acima equivalem a uma Ponte de 24m, conforme projeto padrão. Serão usados 200 trepês TG-16 R com Ø306.3mm C=4.0m de Armadura Adicional.</p> <p>N10-12ø12.5- C/12.5 C=1200<br/>N11-32ø12.5- C/15 C=500<br/>N12-10ø 6.3- C/15 C=13000<br/>N13-35ø12.5- C/12.5 C=10000<br/>N14-40ø6.3- C/15 C=11000<br/>N15-7ø12.5- C/12.5 C=1500<br/>BROCAS/ESPERA Ø20.0 C=9600</p> |          | LISTA DE FERROS - AÇO CA-50 |                  |  |  | POS. | Ø | Q | COMPRIMENTO (cm) |  |  |  | UNIT. TOTAL | 10 | 12.5 | 12 | 12000 144000 | 11 | 12.5 | 32 | 5000 160000 | 12 | 6.3 | 10 | 13000 130000 | 13 | 12.5 | 36 | 10000 360000 | 14 | 6.3 | 40 | 11000 440000 | 15 | 12.5 | 7 | 15000 105000 | RESUMO GERAL |  |  |  | Ø(mm) | COMP (m) | PESO (Kg/m) | TOTAL (Kg) | 6.3 | 570 | 0.245 | 140.00 | 12.5 | 759 | 0.967 | 754.00 | 20.0 | 96 | 2.466 | 237.00 | TOTAL+10% |  |  | 1.222.00 |  |
| LISTA DE FERROS - AÇO CA-50   |          |                             |                  |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| POS.  | Ø        | Q                           | COMPRIMENTO (cm) |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
|   |          |                             | UNIT. TOTAL      |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| 10  | 12.5     | 12                          | 12000 144000     |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| 11  | 12.5     | 32                          | 5000 160000      |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| 12  | 6.3      | 10                          | 13000 130000     |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| 13  | 12.5     | 36                          | 10000 360000     |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| 14  | 6.3      | 40                          | 11000 440000     |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| 15  | 12.5     | 7                           | 15000 105000     |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| RESUMO GERAL  |          |                             |                  |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| Ø(mm)   | COMP (m) | PESO (Kg/m)                 | TOTAL (Kg)       |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| 6.3   | 570      | 0.245                       | 140.00           |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| 12.5  | 759      | 0.967                       | 754.00           |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| 20.0  | 96       | 2.466                       | 237.00           |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| TOTAL+10%   |          |                             | 1.222.00         |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |
| <p>Forma bloco Central madeirite 18mm plastificada:<br/><math>4,20 \times 6 \times 2,0) + (1,00 \times 6,0 \times 2) = 62,40m^2</math></p> <p>Forma bloco Fundação central madeirite Resinada:<br/><math>(0,80 \times 4,20 \times 2,0) + (0,80 \times 2,0 \times 1,40) = 9,00m^2</math></p> <p>CONCRETO FCK=25mpa <math>= (0,8 \times 5,0 \times 1,80) + (4,20 \times 1,0 \times 6,0) = 32,40m^3</math></p>   |          |                             |                  |  |  |      |   |   |                  |  |  |  |             |    |      |    |              |    |      |    |             |    |     |    |              |    |      |    |              |    |     |    |              |    |      |   |              |              |  |  |  |       |          |             |            |     |     |       |        |      |     |       |        |      |    |       |        |           |  |  |          |  |



