

| ACO | N   | DIAM | Q   | UNIT | C TOTAL (cm) |
|-----|-----|------|-----|------|--------------|
| 80  | 1   | 5,0  | 653 | 139  | 907,67       |
|     | 2   | 5,0  | 59  | 1762 | 879,50       |
|     | 3   | 5,0  | 148 | 1760 | 2600,00      |
| 50  | 4   | 6,3  | 148 | 1200 | 5760,00      |
|     | 5   | 6,3  | 730 | 4380 | 15954,00     |
|     | 6   | 6,3  | 30  | 78   | 468          |
|     | 7   | 6,3  | 6   | 71   | 435          |
|     | 8   | 6,3  | 18  | 80   | 1440         |
|     | 10  | 6,3  | 3   | 330  | 1800         |
|     | 11  | 6,3  | 3   | 670  | 3600         |
|     | 13  | 6,3  | 12  | 764  | 3600         |
|     | 14  | 6,3  | 3   | 35   | 36           |
|     | 16  | 6,3  | 3   | 96   | 36           |
|     | 17  | 6,3  | 3   | 345  | 2070         |
|     | 19  | 6,3  | 6   | 415  | 2490         |
|     | 20  | 6,3  | 6   | 610  | 3600         |
|     | 22  | 8,0  | 162 | 81   | 162          |
|     | 23  | 8,0  | 2   | 251  | 562,2        |
|     | 25  | 8,0  | 2   | 354  | 768          |
|     | 26  | 8,0  | 1   | 634  | 634          |
|     | 28  | 8,0  | 3   | 596  | 778          |
|     | 30  | 8,0  | 3   | 384  | 788          |
|     | 31  | 8,0  | 2   | 384  | 788          |
|     | 32  | 8,0  | 2   | 259  | 518          |
|     | 33  | 8,0  | 2   | 241  | 482          |
|     | 34  | 8,0  | 2   | 818  | 1836         |
|     | 35  | 8,0  | 2   | 205  | 420          |
|     | 37  | 10,0 | 1   | 189  | 288          |
|     | 38  | 10,0 | 2   | 205  | 420          |
|     | 39  | 10,0 | 2   | 79   | 316          |
|     | 40  | 10,0 | 2   | 168  | 1212         |
|     | 41  | 10,0 | 4   | 316  | 1212         |
|     | 43  | 10,0 | 1   | 158  | 316          |
|     | 44  | 10,0 | 4   | 107  | 428          |
|     | 46  | 10,0 | 6   | 108  | 648          |
|     | 47  | 10,0 | 6   | 108  | 648          |
|     | 49  | 10,0 | 3   | 358  | 716          |
|     | 50  | 10,0 | 2   | 565  | 1130         |
|     | 52  | 10,0 | 2   | 526  | 1052         |
|     | 53  | 10,0 | 2   | 511  | 1024         |
|     | 54  | 10,0 | 2   | 511  | 1024         |
|     | 55  | 10,0 | 2   | 225  | 450          |
|     | 58  | 10,0 | 2   | 225  | 450          |
|     | 59  | 10,0 | 2   | 225  | 450          |
|     | 60  | 10,0 | 2   | 225  | 450          |
|     | 61  | 10,0 | 4   | 821  | 3284         |
|     | 62  | 10,0 | 2   | 558  | 1136         |
|     | 64  | 10,0 | 2   | 145  | 290          |
|     | 65  | 10,0 | 2   | 270  | 540          |
|     | 67  | 10,0 | 2   | 95   | 190          |
|     | 68  | 10,0 | 12  | 544  | 6528         |
|     | 69  | 10,0 | 2   | 548  | 1096         |
|     | 70  | 10,0 | 2   | 548  | 1096         |
|     | 71  | 10,0 | 2   | 148  | 296          |
|     | 72  | 10,0 | 2   | 180  | 360          |
|     | 73  | 10,0 | 2   | 180  | 360          |
|     | 74  | 10,0 | 2   | 332  | 664          |
|     | 75  | 10,0 | 2   | 188  | 376          |
|     | 76  | 10,0 | 2   | 525  | 1050         |
|     | 77  | 10,0 | 2   | 378  | 756          |
|     | 78  | 10,0 | 1   | 378  | 756          |
|     | 79  | 10,0 | 1   | 378  | 756          |
|     | 80  | 10,0 | 2   | 562  | 1124         |
|     | 82  | 10,0 | 6   | 550  | 3300         |
|     | 83  | 10,0 | 2   | 553  | 1106         |
|     | 84  | 10,0 | 2   | 553  | 1106         |
|     | 85  | 10,0 | 2   | 1055 | 2110         |
|     | 86  | 10,0 | 2   | 647  | 1294         |
|     | 88  | 10,0 | 2   | 200  | 600          |
|     | 89  | 10,0 | 2   | 107  | 214          |
|     | 90  | 10,0 | 2   | 159  | 318          |
|     | 91  | 10,0 | 2   | 159  | 318          |
|     | 92  | 12,5 | 3   | 345  | 690          |
|     | 93  | 12,5 | 3   | 345  | 690          |
|     | 94  | 12,5 | 2   | 1200 | 2400         |
|     | 95  | 12,5 | 2   | 228  | 456          |
|     | 96  | 12,5 | 2   | 765  | 1530         |
|     | 97  | 12,5 | 2   | 888  | 1776         |
|     | 98  | 12,5 | 2   | 1197 | 2394         |
|     | 99  | 12,5 | 2   | 463  | 926          |
|     | 100 | 12,5 | 2   | 521  | 1042         |
|     | 101 | 12,5 | 2   | 813  | 1626         |
|     | 102 | 12,5 | 2   | 118  | 236          |
|     | 103 | 12,5 | 2   | 359  | 718          |
|     | 104 | 12,5 | 2   | 728  | 1456         |
|     | 105 | 12,5 | 3   | 354  | 708          |
|     | 106 | 16,0 | 2   | 2310 | 4620         |
|     | 107 | 16,0 | 2   | 810  | 1620         |
|     | 108 | 16,0 | 2   | 3114 | 6228         |
|     | 109 | 16,0 | 2   | 745  | 1490         |
|     | 110 | 16,0 | 2   | 505  | 1010         |
|     | 111 | 16,0 | 2   | 505  | 1010         |
|     | 112 | 16,0 | 2   | 505  | 1010         |
|     | 113 | 16,0 | 2   | 505  | 1010         |
|     | 114 | 16,0 | 2   | 505  | 1010         |
|     | 115 | 16,0 | 2   | 505  | 1010         |
|     | 116 | 16,0 | 2   | 505  | 1010         |
|     | 117 | 16,0 | 2   | 505  | 1010         |
|     | 118 | 16,0 | 2   | 505  | 1010         |
|     | 119 | 16,0 | 2   | 505  | 1010         |
|     | 120 | 16,0 | 2   | 505  | 1010         |
|     | 121 | 16,0 | 2   | 505  | 1010         |
|     | 122 | 16,0 | 2   | 505  | 1010         |
|     | 123 | 16,0 | 2   | 505  | 1010         |
|     | 124 | 16,0 | 2   | 505  | 1010         |
|     | 125 | 16,0 | 2   | 505  | 1010         |

RESUMO DO AÇO

| ACO        | DIAM | C TOTAL (cm) | PESO-0% |
|------------|------|--------------|---------|
| CA50       | 6,3  | 239,0        | 2,0     |
| CA50       | 8,0  | 135,0        | 1,1     |
| CA50       | 10,0 | 652,4        | 5,3     |
| CA50       | 12,5 | 188,8        | 1,6     |
| CA50       | 16,0 | 116,1        | 1,1     |
| CA50       | 5,0  | 171,9        | 1,4     |
| PESO TOTAL |      | 1250,1       | 11,5    |

VAL de concreto (C25) = 17,4 n°

Área da forma total = 270,36 m²

| ITEM | QUANTIDADE | UNIDADE | VALOR UNITÁRIO | VALOR TOTAL |
|------|------------|---------|----------------|-------------|
| 01   | 20,0       | m³      | 17,4           | 348,0       |
| 02   | 20,0       | m³      | 17,4           | 348,0       |
| 03   | 20,0       | m³      | 17,4           | 348,0       |
| 04   | 20,0       | m³      | 17,4           | 348,0       |
| 05   | 20,0       | m³      | 17,4           | 348,0       |
| 06   | 20,0       | m³      | 17,4           | 348,0       |
| 07   | 20,0       | m³      | 17,4           | 348,0       |
| 08   | 20,0       | m³      | 17,4           | 348,0       |
| 09   | 20,0       | m³      | 17,4           | 348,0       |
| 10   | 20,0       | m³      | 17,4           | 348,0       |
| 11   | 20,0       | m³      | 17,4           | 348,0       |
| 12   | 20,0       | m³      | 17,4           | 348,0       |
| 13   | 20,0       | m³      | 17,4           | 348,0       |
| 14   | 20,0       | m³      | 17,4           | 348,0       |
| 15   | 20,0       | m³      | 17,4           | 348,0       |
| 16   | 20,0       | m³      | 17,4           | 348,0       |
| 17   | 20,0       | m³      | 17,4           | 348,0       |
| 18   | 20,0       | m³      | 17,4           | 348,0       |
| 19   | 20,0       | m³      | 17,4           | 348,0       |
| 20   | 20,0       | m³      | 17,4           | 348,0       |
| 21   | 20,0       | m³      | 17,4           | 348,0       |
| 22   | 20,0       | m³      | 17,4           | 348,0       |
| 23   | 20,0       | m³      | 17,4           | 348,0       |
| 24   | 20,0       | m³      | 17,4           | 348,0       |
| 25   | 20,0       | m³      | 17,4           | 348,0       |
| 26   | 20,0       | m³      | 17,4           | 348,0       |
| 27   | 20,0       | m³      | 17,4           | 348,0       |
| 28   | 20,0       | m³      | 17,4           | 348,0       |
| 29   | 20,0       | m³      | 17,4           | 348,0       |
| 30   | 20,0       | m³      | 17,4           | 348,0       |
| 31   | 20,0       | m³      | 17,4           | 348,0       |
| 32   | 20,0       | m³      | 17,4           | 348,0       |
| 33   | 20,0       | m³      | 17,4           | 348,0       |
| 34   | 20,0       | m³      | 17,4           | 348,0       |
| 35   | 20,0       | m³      | 17,4           | 348,0       |
| 36   | 20,0       | m³      | 17,4           | 348,0       |
| 37   | 20,0       | m³      | 17,4           | 348,0       |
| 38   | 20,0       | m³      | 17,4           | 348,0       |
| 39   | 20,0       | m³      | 17,4           | 348,0       |
| 40   | 20,0       | m³      | 17,4           | 348,0       |
| 41   | 20,0       | m³      | 17,4           | 348,0       |
| 42   | 20,0       | m³      | 17,4           | 348,0       |
| 43   | 20,0       | m³      | 17,4           | 348,0       |
| 44   | 20,0       | m³      | 17,4           | 348,0       |
| 45   | 20,0       | m³      | 17,4           | 348,0       |
| 46   | 20,0       | m³      | 17,4           | 348,0       |
| 47   | 20,0       | m³      | 17,4           | 348,0       |
| 48   | 20,0       | m³      | 17,4           | 348,0       |
| 49   | 20,0       | m³      | 17,4           | 348,0       |
| 50   | 20,0       | m³      | 17,4           | 348,0       |
| 51   | 20,0       | m³      | 17,4           | 348,0       |
| 52   | 20,0       | m³      | 17,4           | 348,0       |
| 53   | 20,0       | m³      | 17,4           | 348,0       |
| 54   | 20,0       | m³      | 17,4           | 348,0       |
| 55   | 20,0       | m³      | 17,4           | 348,0       |
| 56   | 20,0       | m³      | 17,4           | 348,0       |
| 57   | 20,0       | m³      | 17,4           | 348,0       |
| 58   | 20,0       | m³      | 17,4           | 348,0       |
| 59   | 20,0       | m³      | 17,4           | 348,0       |
| 60   | 20,0       | m³      | 17,4           | 348,0       |
| 61   | 20,0       | m³      | 17,4           | 348,0       |
| 62   | 20,0       | m³      | 17,4           | 348,0       |
| 63   | 20,0       | m³      | 17,4           | 348,0       |
| 64   | 20,0       | m³      | 17,4           | 348,0       |
| 65   | 20,0       | m³      | 17,4           | 348,0       |
| 66   | 20,0       | m³      | 17,4           | 348,0       |
| 67   | 20,0       | m³      | 17,4           | 348,0       |
| 68   | 20,0       | m³      | 17,4           | 348,0       |
| 69   | 20,0       | m³      | 17,4           | 348,0       |
| 70   | 20,0       | m³      | 17,4           | 348,0       |
| 71   | 20,0       | m³      | 17,4           | 348,0       |
| 72   | 20,0       | m³      | 17,4           | 348,0       |
| 73   | 20,0       | m³      | 17,4           | 348,0       |
| 74   | 20,0       | m³      | 17,4           | 348,0       |
| 75   | 20,0       | m³      | 17,4           | 348,0       |
| 76   | 20,0       | m³      | 17,4           | 348,0       |
| 77   | 20,0       | m³      | 17,4           | 348,0       |
| 78   | 20,0       | m³      | 17,4           | 348,0       |
| 79   | 20,0       | m³      | 17,4           | 348,0       |
| 80   | 20,0       | m³      | 17,4           | 348,0       |
| 81   | 20,0       | m³      | 17,4           | 348,0       |
| 82   | 20,0       | m³      | 17,4           | 348,0       |
| 83   | 20,0       | m³      | 17,4           | 348,0       |
| 84   | 20,0       | m³      | 17,4           | 348,0       |
| 85   | 20,0       | m³      | 17,4           | 348,0       |
| 86   | 20,0       | m³      | 17,4           | 348,0       |
| 87   | 20,0       | m³      | 17,4           | 348,0       |
| 88   | 20,0       | m³      | 17,4           | 348,0       |
| 89   | 20,0       | m³      | 17,4           | 348,0       |
| 90   | 20,0       | m³      | 17,4           | 348,0       |
| 91   | 20,0       | m³      | 17,4           | 348,0       |
| 92   | 20,0       | m³      | 17,4           | 348,0       |
| 93   | 20,0       | m³      | 17,4           | 348,0       |
| 94   | 20,0       | m³      | 17,4           | 348,0       |
| 95   | 20,0       | m³      | 17,4           | 348,0       |
| 96   | 20,0       | m³      | 17,4           | 348,0       |
| 97   | 20,0       | m³      | 17,4           | 348,0       |
| 98   | 20,0       | m³      | 17,4           | 348,0       |
| 99   | 20,0       | m³      | 17,4           | 348,0       |
| 100  | 20,0       | m³      | 17,4           | 348,0       |
| 101  | 20,0       | m³      | 17,4           | 348,0       |
| 102  | 20,0       | m³      | 17,4           | 348,0       |
| 103  | 20,0       | m³      | 17,4           | 348,0       |
| 104  | 20,0       | m³      | 17,4           | 348,0       |
| 105  | 20,0       | m³      | 17,4           | 348,0       |
| 106  | 20,0       | m³      | 17,4           | 348,0       |
| 107  | 20,0       | m³      | 17,4           | 348,0       |
| 108  | 20,0       | m³      | 17,4           | 348,0       |
| 109  | 20,0       | m³      | 17,4           | 348,0       |
| 110  | 20,0       | m³      | 17,4           | 348,0       |
| 111  | 20,0       | m³      | 17,4           | 348,0       |
| 112  | 20,0       | m³      | 17,4           | 348,0       |
| 113  | 20,0       | m³      | 17,4           | 348,0       |
| 114  | 20,0       | m³      | 17,4           | 348,0       |
| 115  | 20,0       | m³      | 17,4           | 348,0       |
| 116  | 20,0       | m³      | 17,4           | 348,0       |
| 117  | 20,0       | m³      | 17,4           | 348,0       |
| 118  | 20,0       | m³      | 17,4           | 348,0       |
| 119  | 20,0       | m³      | 17,4           | 348,0       |
| 120  | 20,0       | m³      | 17,4           | 348,0       |
| 121  | 20,0       | m³      | 17,4           | 348,0       |
| 122  | 20,0       | m³      | 17,4           | 348,0       |
| 123  | 20,0       | m³      | 17,4           | 348,0       |
| 124  | 20,0       | m³      | 17,4           | 348,0       |
| 125  | 20,0       | m³      | 17,4           | 348,0       |

| ITEM | QUANTIDADE | UNIDADE | VALOR UNITÁRIO | VALOR TOTAL |
|------|------------|---------|----------------|-------------|
| 01   | 20,0       | m³      | 17,4           | 348,0       |
| 02   | 20,0       | m³      | 17,4           | 348,0       |
| 03   | 20,0       | m³      | 17,4           | 348,0       |
| 04   | 20,0       | m³      | 17,4           | 348,0       |
| 05   | 20,0       | m³      | 17,4           | 348,0       |
| 06   | 20,0       | m³      | 17,4           | 348,0       |
| 07   | 20,0       | m³      | 17,4           | 348,0       |
| 08   | 20,0       | m³      | 17,4           | 348,0       |
| 09   | 20,0       | m³      | 17,4           | 348,0       |
| 10   | 20,0       | m³      | 17,4           | 348,0       |
| 11   | 20,0       | m³      | 17,4           | 348,0       |
|      |            |         |                |             |