



## TUBOS DE AÇO INOXIDÁVEL COM E SEM COSTURA - PADRÃO SCHEDULE

### ESPESSURA DE PAREDE (mm) / PESO TEÓRICO (Kg/m)

| DIÂMETRO         |                 | SCH 5S         |                  | SCH 10S        |                  | SCH 40S        |                  | SCH 80S        |                  | SCH 160S       |                  | SCH XXS        |                  |
|------------------|-----------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| Nominal<br>(pol) | Externo<br>(mm) | Parede<br>(mm) | peso<br>(kg / m) | Parede<br>(mm) | peso<br>(kg / m) | Parede<br>(mm) | peso<br>(kg / m) | Parede<br>(mm) | peso<br>(kg / m) | Parede<br>(mm) | peso<br>(kg / m) | Parede<br>(mm) | peso<br>(kg / m) |
| 1/8"             | 10,29           |                |                  | 1,24           | 0,281            | 1,73           | 0,371            | 2,41           | 0,475            |                |                  |                |                  |
| 1/4"             | 13,72           |                |                  | 1,65           | 0,498            | 2,24           | 0,644            | 3,02           | 0,809            |                |                  |                |                  |
| 3/8"             | 17,15           |                |                  | 1,65           | 0,640            | 2,31           | 0,858            | 3,20           | 1,117            |                |                  |                |                  |
| 1/2"             | 21,34           | 1,65           | 0,813            | 2,11           | 1,016            | 2,77           | 1,288            | 3,73           | 1,644            | 4,78           | 1,981            | 7,47           | 2,593            |
| 3/4"             | 26,67           | 1,65           | 1,033            | 2,11           | 1,297            | 2,87           | 1,710            | 3,91           | 2,227            | 5,56           | 2,938            | 7,82           | 3,690            |
| 1"               | 33,40           | 1,65           | 1,311            | 2,77           | 2,124            | 3,38           | 2,540            | 4,55           | 3,286            | 6,35           | 4,299            | 90,09          | 5,531            |
| 1.1/4"           | 42,16           | 1,65           | 1,673            | 2,77           | 2,731            | 3,56           | 3,440            | 4,85           | 4,529            | 6,35           | 5,692            | 9,70           | 7,881            |
| 1.1/2"           | 48,26           | 1,65           | 1,925            | 2,77           | 3,154            | 3,68           | 4,106            | 5,08           | 5,490            | 7,14           | 7,349            | 10,15          | 9,689            |
| 2"               | 60,33           | 1,65           | 2,423            | 2,77           | 3,991            | 3,91           | 5,522            | 5,54           | 7,598            | 8,74           | 11,286           | 11,07          | 13,649           |
| 2.1/2"           | 73,03           | 2,11           | 3,746            | 3,05           | 5,342            | 5,16           | 8,766            | 7,01           | 11,584           | 9,53           | 15,147           | 14,02          | 20,708           |
| 3"               | 88,90           | 2,11           | 4,584            | 3,05           | 6,554            | 5,49           | 11,462           | 7,62           | 15,502           | 11,13          | 21,665           | 15,24          | 28,098           |
| 3.1/2"           | 101,60          | 2,11           | 5,254            | 3,05           | 7,523            | 5,74           | 13,772           | 8,08           | 18,914           |                |                  | 16,15          | 34,542           |
| 4"               | 114,30          | 2,11           | 5,925            | 3,05           | 8,493            | 6,02           | 16,316           | 8,56           | 22,656           | 13,49          | 34,039           | 17,12          | 41,643           |
| 5"               | 141,30          | 2,77           | 9,605            | 3,40           | 11,736           | 6,55           | 22,092           | 9,53           | 31,432           | 15,88          | 49,851           | 19,05          | 58,291           |
| 6"               | 168,28          | 2,77           | 11,475           | 3,40           | 14,032           | 7,11           | 28,682           | 10,97          | 43,194           | 18,26          | 68,566           | 21,95          | 80,395           |
| 8"               | 219,08          | 2,77           | 14,997           | 3,76           | 20,264           | 8,18           | 43,181           | 12,70          | 65,604           | 23,01          | 112,925          | 22,23          | 109,531          |
| 10"              | 273,05          | 3,40           | 22,948           | 4,19           | 28,197           | 9,27           | 61,204           | 12,70          | 82,760           | 28,58          | 174,883          | 25,40          | 157,446          |
| 12"              | 323,85          | 3,96           | 31,707           | 4,57           | 36,522           | 9,53           | 74,977           | 12,70          | 98,909           | 33,32          | 242,302          | 25,40          | 189,743          |
| 14"              | 355,60          | 3,96           | 34,854           | 4,78           | 41,973           | 9,53           | 82,550           | 12,70          | 109,001          | 35,71          | 285,924          |                |                  |
| 16"              | 406,40          | 4,19           | 42,182           | 4,78           | 48,051           | 9,53           | 94,668           | 12,70          | 125,150          | 40,49          | 370,837          |                |                  |
| 18"              | 457,20          | 4,19           | 47,510           | 4,78           | 54,129           | 9,53           | 106,785          | 12,70          | 141,298          | 45,24          | 466,486          |                |                  |
| 20"              | 508,00          | 4,78           | 60,207           | 5,54           | 69,674           | 9,53           | 118,903          | 12,70          | 157,446          | 50,01          | 573,289          |                |                  |
| 22"              | 558,80          | 4,78           | 66,285           | 5,54           | 76,718           | 9,53           | 131,021          | 12,70          | 173,595          | 53,98          | 682,072          |                |                  |
| 24"              | 609,60          | 5,54           | 83,763           | 6,35           | 95,881           | 9,53           | 143,138          | 12,70          | 189,743          | 59,54          | 819,747          |                |                  |
| 26"              | 660,40          | 6,35           | 90,807           | 7,92           | 103,955          | 9,53           | 155,256          | 12,70          | 205,891          |                |                  |                |                  |
| 28"              | 711,20          | 6,35           | 112,029          | 7,92           | 139,416          | 9,53           | 167,373          | 12,70          | 222,040          |                |                  |                |                  |
| 30"              | 762,00          | 6,35           | 120,103          | 7,92           | 149,487          | 9,53           | 179,491          | 12,70          | 238,188          |                |                  |                |                  |

TUBOS REDONDOS OD

| DIÂMETRO      |              | ESPESSURA DE PAREDE (mm) / PESO TEÓRICO (Kg/m) |               |             |               |             |               |             |               |             |               |
|---------------|--------------|------------------------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| Nominal (pol) | Externo (mm) | Parede (mm)                                    | peso (kg / m) | Parede (mm) | peso (kg / m) | Parede (mm) | peso (kg / m) | Parede (mm) | peso (kg / m) | Parede (mm) | peso (kg / m) |
| 1/4"          | 6,35         | 0,70                                           | 0,10          | 1,00        | 0,13          | 1,20        | 0,15          | 1,50        | 0,18          |             |               |
| 3/8"          | 9,53         | 0,70                                           | 0,15          | 1,00        | 0,21          | 1,20        | 0,25          | 1,50        | 0,30          |             |               |
| 1/2"          | 12,70        | 0,70                                           | 0,21          | 1,00        | 0,29          | 1,20        | 0,34          | 1,50        | 0,42          | 2,00        | 0,54          |
| 5/8"          | 15,87        | 0,70                                           | 0,27          | 1,00        | 0,37          | 1,20        | 0,44          | 1,50        | 0,54          | 2,00        | 0,69          |
| 3/4"          | 19,05        | 1,00                                           | 0,45          | 1,20        | 0,54          | 1,50        | 0,66          | 2,00        | 0,85          |             |               |
| 7/8"          | 22,22        | 1,00                                           | 0,53          | 1,20        | 0,63          | 1,50        | 0,78          | 2,00        | 1,01          |             |               |
| 1"            | 25,40        | 1,00                                           | 0,61          | 1,20        | 0,73          | 1,50        | 0,90          | 2,00        | 1,17          | 3,00        | 1,68          |
| 1.1/4"        | 31,75        | 1,00                                           | 0,77          | 1,20        | 0,92          | 1,50        | 1,14          | 2,00        | 1,49          | 3,00        | 2,16          |
| 1.1/2"        | 38,10        | 1,00                                           | 0,93          | 1,20        | 1,11          | 1,50        | 1,37          | 2,00        | 1,81          | 3,00        | 2,64          |
| 1.3/4"        | 44,45        | 1,00                                           | 1,09          | 1,20        | 1,30          | 1,50        | 1,61          | 2,00        | 2,12          | 3,00        | 3,11          |
| 2"            | 50,80        | 1,00                                           | 1,25          | 1,20        | 1,49          | 1,50        | 1,85          | 2,00        | 2,44          | 3,00        | 3,59          |
| 2.1/2"        | 63,50        |                                                |               | 1,20        | 1,87          | 1,50        | 2,33          | 2,00        | 3,08          | 3,00        | 4,54          |
| 3"            | 76,20        |                                                |               | 1,20        | 2,25          | 1,50        | 2,80          | 2,00        | 3,71          | 3,00        | 5,50          |
| 4"            | 101,60       |                                                |               |             |               | 1,50        | 3,76          | 2,00        | 4,99          | 3,00        | 7,40          |
| 5"            | 127,00       |                                                |               |             |               |             |               | 2,00        | 6,26          | 3,00        | 9,31          |
| 6"            | 152,40       |                                                |               |             |               |             |               | 2,00        | 7,53          | 3,00        | 11,22         |
| 8"            | 203,20       |                                                |               |             |               |             |               | 2,00        | 10,07         | 3,00        | 15,03         |
| 10"           | 254,00       |                                                |               |             |               |             |               | 2,00        | 12,61         | 3,00        | 18,85         |
| 12"           | 304,80       |                                                |               |             |               |             |               | 2,00        | 15,16         | 3,00        | 22,66         |

TUBOS ESTRUTURAIS QUADRADOS E RETANGULARES

| TUBOS ESTRUTURAIS QUADRADOS     |                |      |      |      |       |
|---------------------------------|----------------|------|------|------|-------|
| PESO EM QUILOS POR METRO (KG/M) |                |      |      |      |       |
| Bitola (mm)                     | Espessura (mm) |      |      |      |       |
|                                 | 1,00           | 1,20 | 1,50 | 2,00 | 3,00  |
| 10 x 10                         | 0,29           | 0,34 | 0,41 | 0,54 | 0,73  |
| 15 x 15                         | 0,45           | 0,53 | 0,65 | 0,84 | 1,19  |
| 20 x 20                         | 0,60           | 0,72 | 0,89 | 1,16 | 1,66  |
| 25 x 25                         | 0,76           | 0,90 | 1,12 | 1,47 | 2,13  |
| 30 x 30                         | 0,92           | 1,09 | 1,36 | 1,78 | 2,60  |
| 35 x 35                         | 1,07           | 1,28 | 1,59 | 2,10 | 3,07  |
| 40 x 40                         | 1,23           | 1,47 | 1,83 | 2,41 | 3,54  |
| 50 x 50                         | 1,56           | 1,85 | 2,30 | 3,04 | 4,48  |
| 60 x 60                         | 1,88           | 2,22 | 2,77 | 3,66 | 5,42  |
| 70 x 70                         | 2,20           | 2,60 | 3,24 | 4,29 | 6,36  |
| 80 x 80                         | 2,52           | 2,97 | 3,71 | 4,92 | 7,30  |
| 100 x 100                       | 3,15           | 3,73 | 4,65 | 6,17 | 9,18  |
| 120 x 120                       | 3,79           | 4,54 | 5,67 | 7,53 | 11,22 |
| 150 x 150                       | 4,74           | 5,69 | 7,10 | 9,44 | 14,08 |
|                                 |                |      |      |      |       |
|                                 |                |      |      |      |       |

| TUBOS ESTRUTURAIS RETANGULARES  |                |      |      |      |      |
|---------------------------------|----------------|------|------|------|------|
| PESO EM QUILOS POR METRO (KG/M) |                |      |      |      |      |
| Bitola (mm)                     | Espessura (mm) |      |      |      |      |
|                                 | 1,00           | 1,20 | 1,50 | 2,00 | 3,00 |
| 15 x 30                         | 0,69           | 0,83 | 1,02 | 1,34 | 1,93 |
| 20 x 10                         | 0,45           | 0,54 | 0,66 | 0,86 | 1,21 |
| 25 x 15                         | 0,61           | 0,73 | 0,90 | 1,18 | 1,69 |
| 30 x 10                         | 0,61           | 0,73 | 0,90 | 1,18 | 1,69 |
| 30 x 15                         | 0,69           | 0,83 | 1,02 | 1,34 | 1,93 |
| 30 x 20                         | 0,77           | 0,92 | 1,14 | 1,49 | 2,17 |
| 35 x 15                         | 0,77           | 0,92 | 1,14 | 1,49 | 2,17 |
| 35 x 20                         | 0,85           | 1,02 | 1,26 | 1,65 | 2,41 |
| 40 x 10                         | 0,77           | 0,92 | 1,14 | 1,49 | 2,17 |
| 40 x 15                         | 0,85           | 1,02 | 1,26 | 1,65 | 2,41 |
| 40 x 20                         | 0,93           | 1,11 | 1,38 | 1,81 | 2,65 |
| 40 x 30                         | 1,09           | 1,30 | 1,62 | 2,13 | 3,12 |
| 50 x 15                         | 1,01           | 1,21 | 1,50 | 1,97 | 2,89 |
| 50 x 20                         | 1,09           | 1,30 | 1,62 | 2,13 | 3,12 |
| 50 x 25                         | 1,17           | 1,40 | 1,74 | 2,29 | 3,36 |
| 50 x 30                         | 1,25           | 1,50 | 1,86 | 2,45 | 3,60 |

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|-----------|------|------|------|------|-------|
| 60 x 10   | 1,09 | 1,30 | 1,62 | 2,13 | 3,12  |
| 60 x 30   | 1,41 | 1,69 | 2,10 | 2,77 | 4,08  |
| 60 x 40   | 1,57 | 1,88 | 2,34 | 3,09 | 4,56  |
| 70 x 20   | 1,41 | 1,69 | 2,10 | 2,77 | 4,08  |
| 70 x 25   | 1,49 | 1,78 | 2,22 | 2,93 | 4,32  |
| 70 x 30   | 1,57 | 1,89 | 2,34 | 3,09 | 4,56  |
| 70 x 50   | 1,89 | 2,26 | 2,82 | 3,73 | 5,52  |
| 80 x 20   | 1,57 | 1,88 | 2,34 | 3,09 | 4,56  |
| 80 x 40   | 1,89 | 2,26 | 2,82 | 3,73 | 5,52  |
| 80 x 60   | 2,21 | 2,64 | 3,29 | 4,37 | 6,48  |
| 100 x 40  | 2,21 | 2,64 | 3,29 | 4,37 | 6,48  |
| 100 x 50  | 2,37 | 2,84 | 3,53 | 4,69 | 6,95  |
| 100 x 60  | 2,53 | 3,03 | 3,77 | 5,01 | 7,43  |
| 150 x 50  | 3,17 | 3,79 | 4,73 | 6,28 | 9,35  |
| 150 x 100 | 3,95 | 4,73 | 5,91 | 7,85 | 11,70 |