

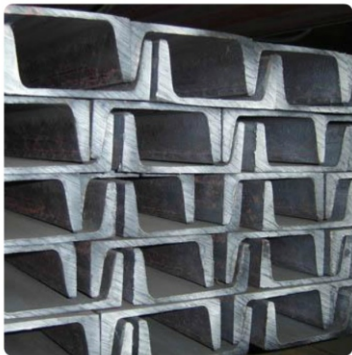
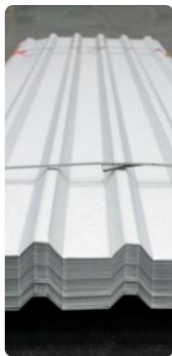
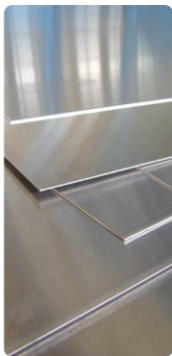
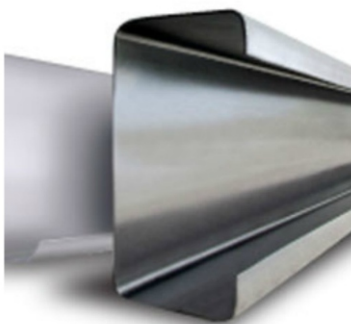


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SAMER

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CON ALMA DE ACERO

# CATÁLOGO





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**CON ALMA DE ACERO**

|          |         |            | Peso aprox. |                                 |          |                      | Peso aprox. |
|----------|---------|------------|-------------|---------------------------------|----------|----------------------|-------------|
| Pulgadas |         | Milímetros | kg/m        | Pulgadas                        |          | Milímetros           | kg/m        |
| 1/8 x    | 3/4     | 19.1       | 0.88        | 3/8 x                           | 4 x 6    | 9.5 x 101.6 x 152.4  | 18.30       |
|          | 1       | 25.4       | 1.19        | 1/2 x                           | 4 x 6    | 12.7 x 101.6 x 152.4 | 24.11       |
|          | 1 1/4   | 31.7       | 1.50        | 5/8 x                           | 4 x 6    | 15.9 x 101.6 x 152.4 | 29.76       |
|          | 1 1/2   | 38.1       | 1.83        | 3/4 x                           | 4 x 6    | 19.0 x 101.6 x 152.4 | 35.12       |
|          | 2       | 50.8       | 2.46        | 7/8 x                           | 4 x 6    | 22.2 x 101.6 x 152.4 | 40.48       |
| 3/16 x   | 1       | 25.4       | 1.73        | 1" x                            | 4 x 6    | 25.4 x 101.6 x 152.4 | 45.54       |
|          | 1 1/4   | 31.7       | 2.20        | <b>ALAMBRÓN</b>                 |          |                      |             |
|          | 1 1/2   | 38.1       | 2.68        | Pulg.                           | F. Pulg. | mm.                  | (kg/m)      |
|          | 2       | 50.8       | 3.63        | 0.218                           | 7/32"    | 5.55                 | 0.189       |
|          | 2 1/2   | 63.5       | 4.60        | 0.250                           | 1/4"     | 6.35                 | 0.249       |
| 1/4 x    | 3       | 76.2       | 5.52        | 0.312                           | 5/16"    | 7.94                 | 0.388       |
|          | 1       | 25.4       | 2.22        | 0.375                           | 3/8"     | 9.52                 | 0.559       |
|          | 1 1/4   | 31.7       | 2.86        | 0.500                           | 1/2"     | 12.70                | 0.994       |
|          | 1 1/2   | 38.1       | 3.49        | 0.625                           | 5/8"     | 15.9                 | 1.552       |
|          | 2       | 50.8       | 5.84        | 0.750                           | 3/4"     | 19.1                 | 2.235       |
| 5/16 x   | 2 1/2   | 76.2       | 9.08        | <b>ALAMBRE RECOCIDO CAL. 16</b> |          |                      |             |
|          | 3       | 101.6      | 12.20       | Rollos de 45 a 70 kg x pza.     |          |                      |             |
|          | 4       | 127.0      | 15.51       | <b>CANAL MON-TEN</b>            |          |                      |             |
|          | 5       | 152.4      | 20.00       | Peralte                         | largo m. | Calibre              | kg/Pz       |
|          | 2       | 50.8       | 6.99        | 4"                              | 4        | 14                   | 13.10       |
| 3/8 x    | 2 1/2   | 63.5       | 8.79        | 4"                              | 6        | 14                   | 19.70       |
|          | 3       | 76.2       | 10.72       | 4"                              | 4        | 12                   | 18.04       |
|          | 4       | 101.6      | 14.60       | 4"                              | 4        | 10                   | 23.00       |
|          | 5       | 127.0      | 18.30       | 5"                              | 5        | 14                   | 18.40       |
|          | 6       | 152.4      | 22.17       | 5"                              | 6        | 14                   | 22.10       |
| 1/2 x    | 2 1/2   | 63.5       | 12.03       | 5"                              | 5        | 12                   | 25.25       |
|          | 3       | 76.2       | 13.99       | 5"                              | 5        | 10                   | 32.40       |
|          | 4       | 101.6      | 19.05       | 6"                              | 6        | 14                   | 24.40       |
|          | 5       | 127.0      | 24.11       | 6"                              | 6        | 12                   | 33.50       |
|          | 6       | 152.4      | 29.17       | 6"                              | 6        | 10                   | 42.70       |
| 5/8 x    | 6       | 152.4      | 36.10       | 8"                              | 8        | 14                   | 43.00       |
|          | 8       | 203.2      | 48.40       | 8"                              | 8        | 12                   | 59.10       |
|          | 6       | 152.4      | 42.71       | 8"                              | 8        | 10                   | 75.70       |
|          | 3/4 x   | 8          | 203.2       | 58.08                           | 10"      | 10                   | 108.30      |
|          | 7/8 x   | 8          | 203.2       | 66.97                           | 10"      | 10                   | 108.30      |
| 3/4 x    | 8       | 203.2      | 66.97       | 12"                             | 12       | 14                   | 89.82       |
|          | 1 x     | 8          | 203.2       | 75.90                           | 12"      | 12                   | 124.50      |
|          | 1 1/8 x | 8          | 203.2       | 84.68                           | 12"      | 12                   | 124.50      |
|          | 1 1/8 x | 8          | 203.2       | 84.68                           | 12"      | 12                   | 124.50      |
|          | 1 1/8 x | 8          | 203.2       | 84.68                           | 12"      | 12                   | 124.50      |

**CLAVO**

| Pulgadas | Milímetros | kg/caja |
|----------|------------|---------|
| 1"       | 25.4       | 25      |
| 1 1/2"   | 38.1       | 25      |
| 2"       | 50.8       | 25      |
| 2 1/2"   | 63.5       | 25      |
| 3"       | 76.2       | 25      |
| 3 1/2"   | 88.9       | 25      |
| 4"       | 101.6      | 25      |

# LÁMINA NEGRA EN HOJA ROLADA EN CALIENTE Y EN FRÍO

3

## Peso aprox. por hoja en kilogramos

| Calibre | Espesor |       | 3' x 8'     | 3' x 10'    | 4' x 8'     | 4' x 10'    | Peso aprox. |
|---------|---------|-------|-------------|-------------|-------------|-------------|-------------|
|         | mm.     | pulg. | .914 x 2.44 | .914 x 3.05 | 1.22 x 2.44 | 1.22 x 3.05 | kg/m2       |
| 10      | 3.42    | .1345 | 61.234      | 76.542      | 81.646      | 102.058     | 27.46       |
| 1/8"    | 3.17    | .125  | 56.911      | 71.140      | 75.866      | 94.832      | 25.53       |
| 11      | 3.04    | .1196 | 54.432      | 68.040      | 72.574      | 90.718      | 24.41       |
| 12      | 2.66    | .1046 | 47.628      | 59.535      | 63.503      | 79.373      | 21.36       |
| 13      | 2.28    | .0897 | 40.824      | 51.030      | 54.431      | 68.039      | 18.30       |
| 14      | 1.91    | .0747 | 34.020      | 42.525      | 45.359      | 56.699      | 15.25       |
| 15      | 1.71    | .0673 | 30.617      | 38.271      | 40.823      | 51.029      | 13.73       |
| 16      | 1.52    | .0598 | 27.216      | 34.020      | 36.287      | 45.359      | 12.20       |
| 17      | 1.37    | .0538 | 24.494      | 30.618      | 32.659      | 40.823      | 10.98       |
| 18      | 1.21    | .0478 | 21.773      | 27.216      | 29.030      | 36.287      | 9.76        |
| 19      | 1.06    | .0418 | 19.051      | 23.814      | 25.401      | 31.751      | 8.54        |
| 20      | 0.91    | .0359 | 16.330      | 20.412      | 21.772      | 27.215      | 7.32        |
| 21      | 0.84    | .0329 | 14.969      | 18.711      | 19.958      | 24.947      | 6.71        |
| 22      | 0.76    | .0299 | 13.608      | 17.010      | 18.144      | 22.680      | 6.10        |
| 23      | 0.68    | .0269 | 12.247      | 15.309      | 16.326      | 20.412      | 5.49        |
| 24      | 0.61    | .0239 | 10.886      | 13.608      | 14.515      | 18.144      | 4.88        |
| 25      | 0.53    | .0209 | 9.526       | 11.907      | 12.701      | 15.876      | 4.27        |
| 26      | 0.45    | .0179 | 8.165       | 10.206      | 10.886      | 13.608      | 3.66        |

## LÁMINA GALVANIZADA LISA EN HOJA

| Calibre | Espesor |       | ---kgs/m--- |       | -----Peso aprox. por hoja----- |         |          |         |          |  |
|---------|---------|-------|-------------|-------|--------------------------------|---------|----------|---------|----------|--|
|         | mm      | Pulg. | 3'          | 4'    | 3' x 6'                        | 3' x 8' | 3' x 10' | 4' x 8' | 4' x 10' |  |
| 10      | 3.454   | .1360 | 24.77       | 33.80 | 45.33                          | 60.44   | 75.55    | 83.00   | 103.00   |  |
| 12      | 2.695   | .1061 | 19.32       | 25.76 | 35.36                          | 47.14   | 58.93    | 62.85   | 78.57    |  |
| 14      | 1.936   | .0762 | 13.87       | 18.50 | 25.38                          | 33.84   | 42.30    | 45.14   | 56.33    |  |
| 16      | 1.557   | .0613 | 11.15       | 14.87 | 20.40                          | 27.21   | 34.01    | 36.28   | 45.35    |  |
| 18      | 1.252   | .0493 | 8.97        | 11.96 | 16.42                          | 21.89   | 27.36    | 29.18   | 36.48    |  |
| 20      | .950    | .0374 | 6.80        | 9.06  | 12.44                          | 16.59   | 20.74    | 22.11   | 27.63    |  |
| 22      | .798    | .0314 | 5.70        | 7.60  | 10.43                          | 13.91   | 17.39    | 18.54   | 23.18    |  |
| 24      | .569    | .0224 | 4.06        | 5.42  | 8.32                           | 11.10   | 13.88    | 14.81   | 18.51    |  |
| 26      | .493    | .0194 | 3.52        | 4.69  | 6.44                           | 8.59    | 10.74    | 11.44   | 14.30    |  |
| 28      | .417    | .0164 | 2.97        | 3.96  | 5.44                           | 7.25    | 9.06     | 9.66    | 12.08    |  |
| 30      | .343    | .0135 | 2.44        |       | 4.47                           | 5.95    | 7.44     |         |          |  |

## MALLA ELECTROSOLDADA

| Diseño  | Ancho (m) | Largo (m) | Peso aprox.(kg/m2) |
|---------|-----------|-----------|--------------------|
| 66-44   | 2.50      | 40        | 2.71               |
| 66-66   | 2.50      | 40        | 1.98               |
| 66-88   | 2.50      | 40        | 1.41               |
| 66-1010 | 2.50      | 40        | .98                |



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Pesos teóricos calculados según especificaciones del fabricante de lámina

| Dimensiones   |               | Calibre | Color  | Espesor<br>(mm) | Peso Aprox.<br>Kg/Pz. de<br>6.00mts | Pzas. x<br>atado |
|---------------|---------------|---------|--------|-----------------|-------------------------------------|------------------|
| Pulgadas      | Milímetros    |         |        |                 |                                     |                  |
| 1 x 1         | 25.4 x 25.4   | 14      | Azul   | 1.89            | 8.65                                | 120              |
|               |               | 12      | Verde  | 2.66            | 11.22                               | 100              |
|               |               | 10      | Rojo   | 3.42            | 13.62                               | 81               |
| 1 1/4 x 1 1/4 | 31.7 x 31.7   | 14      | Azul   | 1.89            | 10.70                               | 100              |
| 1 1/2 x 1 1/2 | 38.1 x 38.1   | 14      | Azul   | 1.89            | 13.10                               | 72               |
|               |               | 12      | Blanco | 2.66            | 17.76                               | 56               |
|               |               | 11      | Verde  | 3.04            | 19.98                               | 49               |
|               |               | 9       | Rojo   | 3.80            | 24.12                               | 42               |
| 2 x 1         | 50.8 x 25.4   | 14      | Azul   | 1.89            | 13.00                               | 64               |
| 2 x 2         | 50.8 x 50.8   | 14      | Azul   | 1.89            | 17.70                               | 56               |
|               |               | 12      | Blanco | 2.66            | 24.30                               | 42               |
|               |               | 11      | Verde  | 3.04            | 27.30                               | 36               |
|               |               | 9       | Rojo   | 3.80            | 33.36                               | 30               |
| 2 1/2 x 1 1/4 | 63.5 x 31.7   | 14      | Azul   | 1.89            | 15.85                               | 50               |
| 2 1/2 x 1 1/2 | 63.5 x 38.1   | 14      | Azul   | 1.89            | 18.00                               | 50               |
| 2 1/2 x 2 1/2 | 63.5 x 63.5   | 14      | Azul   | 1.89            | 22.19                               | 42               |
|               |               | 11      | Blanco | 3.04            | 34.92                               | 30               |
|               |               | 9       | Verde  | 3.80            | 42.78                               | 25               |
|               |               | 7       | Rojo   | 4.55            | 50.22                               | 20               |
| 3 x 1 1/2     | 76.2 x 38.1   | 14      | Azul   | 1.89            | 19.00                               | 50               |
| 3 x 3         | 76.2 x 76.2   | 14      | Azul   | 1.89            | 27.59                               | 36               |
|               |               | 11      | Blanco | 3.04            | 42.54                               | 25               |
|               |               | 9       | Verde  | 3.80            | 52.32                               | 20               |
|               |               | 7       | Rojo   | 4.55            | 61.68                               | 16               |
|               |               | 14      | Azul   | 1.89            | 31.65                               | 36               |
| 3 1/2 x 3 1/2 | 88.9 x 88.9   | 11      | Blanco | 3.04            | 50.04                               | 20               |
|               |               | 9       | Verde  | 3.80            | 61.68                               | 16               |
|               |               | 7       | Rojo   | 4.55            | 72.96                               | 16               |
|               |               | 14      | Azul   | 1.89            | 22.14                               | 42               |
| 3 x 2         | 76.2 x 50.8   | 11      | Blanco | 3.04            | 34.92                               | 30               |
| 4 x 1 1/2     | 101.6 x 38.1  | 9       | Verde  | 3.80            | 42.78                               | 25               |
|               |               | 7       | Rojo   | 4.55            | 50.22                               | 20               |
|               |               | 14      | Azul   | 1.89            | 25.00                               | 50               |
|               |               | 14      | Azul   | 1.89            | 27.59                               | 36               |
| 4 x 2         | 101.6 x 50.8  | 11      | Blanco | 3.04            | 42.54                               | 25               |
|               |               | 9       | Verde  | 3.80            | 52.32                               | 20               |
|               |               | 7       | Rojo   | 4.55            | 61.68                               | 18               |
|               |               | 14      | Azul   | 1.89            | 31.65                               | 36               |
| 4 x 3         | 101.6 x 76.2  | 11      | Blanco | 3.04            | 50.04                               | 20               |
|               |               | 9       | Verde  | 3.80            | 61.68                               | 16               |
|               |               | 7       | Rojo   | 4.55            | 72.96                               | 16               |
|               |               | 14      | Azul   | 1.89            | 36.20                               | 30               |
| 4 x 4         | 101.6 x 101.6 | 11      | Blanco | 3.04            | 57.60                               | 20               |
|               |               | 9       | Verde  | 3.80            | 72.18                               | 16               |
|               |               | 7       | Rojo   | 4.55            | 85.80                               | 16               |

### PESOS POR PLACA EN KILOGRAMOS

| Espesor                                | Pulgadas | 2"     | 1 1/2" | 1 1/4" | 1"     | 7/8"   | 3/4"   | 5/8"   | 1/2"  | 3/8"  | 5/16" | 1/4"  | 3/16" |
|----------------------------------------|----------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
|                                        |          |        |        |        |        |        |        |        |       |       |       |       |       |
| Milímetros                             |          | 50.8   | 38.1   | 31.8   | 25.4   | 22.2   | 19.1   | 15.9   | 12.7  | 9.5   | 7.9   | 6.4   | 4.8   |
| Peso aprox./<br>kg. por m <sup>2</sup> |          | 398.78 | 299.08 | 249.63 | 199.39 | 174.27 | 149.94 | 124.82 | 99.70 | 74.58 | 62.01 | 50.24 | 37.68 |

### Medidas

| Pies   | Metros       |       |       |       |       |       |       |       |       |       |     |     |     |
|--------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|
| 3 x 8  | 0.914 x 2.44 | 889   | 667   | 557   | 445   | 389   | 334   | 278   | 222   | 167   | 139 | 112 | 84  |
| 3 x 10 | 0.914 x 3.05 | 1,112 | 834   | 696   | 556   | 486   | 418   | 348   | 278   | 208   | 173 | 140 | 104 |
| 3 x 20 | 0.914 x 6.10 | 2,223 | 1,667 | 1,392 | 1,112 | 972   | 836   | 696   | 556   | 416   | 346 | 280 | 210 |
| 4 x 8  | 1.22 x 2.44  | 1,187 | 890   | 743   | 594   | 519   | 446   | 372   | 297   | 222   | 185 | 150 | 112 |
| 4 x 10 | 1.22 x 3.05  | 1,484 | 1,113 | 929   | 742   | 648   | 558   | 464   | 371   | 278   | 231 | 187 | 140 |
| 4 x 20 | 1.22 x 6.10  | 2,968 | 2,226 | 1,858 | 1,484 | 1,297 | 1,116 | 929   | 742   | 555   | 461 | 373 | 280 |
| 5 x 20 | 1.52 x 6.10  | 3,697 | 2,773 | 2,315 | 1,849 | 1,616 | 1,390 | 1,157 | 924   | 694   | 578 | 466 | 349 |
| 6 x 20 | 1.83 x 6.10  | 4,452 | 3,339 | 2,787 | 2,226 | 1,945 | 1,674 | 1,393 | 1,113 | 833   | 694 | 561 | 420 |
| 8 x 20 | 2.44 x 6.10  | 5,935 | 4,452 | 3,715 | 2,968 | 2,594 | 2,232 | 1,858 | 1,484 | 1,110 | 923 | 748 | 552 |

### Tipos de acero que manejamos:

|          |           |         |         |     |          |          |          |          |
|----------|-----------|---------|---------|-----|----------|----------|----------|----------|
| SAE 1010 | ASTM A-36 | A-283-C | A-285-C | H50 | A-709-50 | A-572-50 | A-515-70 | A-516-70 |
|----------|-----------|---------|---------|-----|----------|----------|----------|----------|

| Calibre | Espesor  |            | Peso aprox. por Hoja |          |         |          |
|---------|----------|------------|----------------------|----------|---------|----------|
|         | Pulgadas | Milímetros | 3' x 8'              | 3' x 10' | 4' x 8' | 4' x 10' |
| 10      | .134"    | 3.42       | 61.24                | 76.54    | 81.66   | 102.06   |
| 11      | .119"    | 3.04       | 54.43                | 68.04    | 72.57   | 90.72    |
| 12      | .104"    | 2.66       | 47.63                | 59.53    | 63.50   | 79.38    |
| 13      | .089"    | 2.28       | 40.82                | 51.03    | 54.43   | 68.04    |
| 14      | .074"    | 1.91       | 34.19                | 42.52    | 45.36   | 56.67    |
| 1/8"    | .125"    | 3.17       | 59.91                | 71.14    | 74.80   | 93.60    |
| 3/16"   | .187"    | 4.76       | 85.36                | 106.71   | 113.81  | 142.26   |
| 1/4"    | .250"    | 6.35       | 113.80               | 142.26   | 151.70  | 189.60   |

## REDONDO

| Pulgadas | Milímetros | Peso aprox. |               |
|----------|------------|-------------|---------------|
|          |            | kg/m        | kgs Pz. 6.10m |
| 3/8      | 9.5        | .559        | 3.41          |
| 7/16     | 11.1       | .760        | 4.64          |
| 1/2      | 12.7       | .994        | 6.06          |
| 9/16     | 14.3       | 1.257       | 7.67          |
| 5/8      | 15.9       | 1.552       | 9.47          |
| 11/16    | 17.5       | 1.878       | 11.46         |
| 3/4      | 19.1       | 2.235       | 13.63         |
| 13/16    | 20.6       | 2.624       | 16.01         |
| 7/8      | 22.2       | 3.042       | 18.56         |
| 15/16    | 23.8       | 3.493       | 21.31         |
| 1        | 25.4       | 3.974       | 24.24         |
| 1 1/8    | 28.6       | 5.029       | 30.68         |
| 1 1/4    | 31.8       | 6.211       | 37.89         |
| 1 3/8    | 34.9       | 7.552       | 46.07         |
| 1 1/2    | 38.1       | 9.000       | 54.90         |
| 1 5/8    | 41.3       | 10.494      | 64.01         |
| 1 3/4    | 44.5       | 12.170      | 74.24         |
| 1 7/8    | 47.7       | 13.970      | 85.22         |
| 2        | 50.8       | 15.900      | 96.99         |

## REDONDO PULIDO (SEMIFLECHA)

| Pulgadas | Milímetros | Peso aprox. |               |
|----------|------------|-------------|---------------|
|          |            | kg/m        | kgs Pz. 6.00m |
| 3/16     | 4.8        | .143        | 0.858         |
| 1/4      | 6.3        | .249        | 1.494         |
| 5/16     | 7.9        | .388        | 2.328         |
| 3/8      | 9.5        | .559        | 3.354         |
| 1/2      | 12.7       | .994        | 5.964         |



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| Peso aprox. |          |      |        |         | Peso aprox. |          |      |        |         |
|-------------|----------|------|--------|---------|-------------|----------|------|--------|---------|
| TERNIUM     | R.PY TSA | Cal. | kgs    | Piezas  | TERNIUM     | R.PY TSA | Cal. | kgs    | Pieza   |
|             |          |      | Pz.    | x Atado |             |          |      | Pz.    | x Atado |
| ZV131       | 101      | 20   | 3.600  | 10      | ZV144       | 224      | 20   | 7.000  | 10      |
| ZV120       | 104      | 20   | 5.800  | 10      | ZV144       | 224      | 18   | 9.000  | 10      |
| ZV120       | 104      | 18   | 7.500  | 10      |             | 225      | 20   | 6.600  | 10      |
| ZM225       | 112      | 20   | 5.600  | 10      |             | 225      | 18   | 8.700  | 10      |
| ZM225       | 112      | 18   | 7.500  | 10      | ZP1500      |          | 14   | 17.630 | 2       |
| ZM350       | 113      | 20   | 6.400  | 6       | ZP1500      | 227      | 16   | 14.250 | 2       |
| ZV154       | 114      | 20   | 1.100  | 50      | ZR125       | 228      | 18   | 5.600  | 10      |
| ZV154       | 114      | 18   | 1.500  | 50      | ZR125       | 228      | 20   | 4.300  | 10      |
| ZV155       | 117      | 20   | 1.650  | 30      | ZR175       | 230      | 20   | 5.400  | 10      |
| ZC100       | 121      | 20   | 4.300  | 10      | ZR175       | 230      | 18   | 7.200  | 10      |
| ZC100       | 121      | 18   | 5.600  | 10      | ZV106       | 233      | 20   | 6.600  | 10      |
| ZP1400      | 127      | 18   | 7.300  | 10      | ZV106       | 233      | 18   | 8.700  | 10      |
| ZD170       | 132      | 20   | 9.500  | 10      | ZP150       | 234      | 20   | 7.450  | 8       |
| ZM138       | 139      | 20   | 5.200  | 10      | ZP150       | 234      | 18   | 9.700  | 8       |
| ZM138       | 139      | 18   | 6.800  | 10      | ZP015       | 235      | 18   | 11.260 | 6       |
| ZM525       | 145      | 20   | 8.700  | 6       | ZP015       | 235      | 20   | 8.500  | 6       |
| ZM525       | 145      | 18   | 11.500 | 6       | ZP100       | 236      | 20   | 6.100  | 10      |
| ZM600       | 146      | 20   | 9.400  | 6       | ZP100       | 236      | 18   | 8.000  | 10      |
| ZM600       | 146      | 18   | 12.400 | 6       |             | 237      | 18   | 9.000  | 6       |
| ZV101       | 201      | 20   | 5.600  | 10      |             | 237      | 20   | 7.000  | 6       |
| ZV101       | 201      | 18   | 7.400  | 10      |             | 238      | 18   | 12.600 | 6       |
| ZV121       | 204      | 20   | 5.800  | 10      | ZP020       | 238      | 20   | 9.300  | 6       |
| ZV121       | 204      | 18   | 7.600  | 10      | ZR249       | 241      | 20   | 8.000  | 6       |
| ZV123       | 205      | 20   | 6.500  | 10      | ZR249       | 241      | 18   | 10.500 | 6       |
| ZV123       | 205      | 18   | 8.500  | 10      | ZV127       | 242      | 20   | 8.500  | 7       |
| ZV122       | 206      | 20   | 5.800  | 10      | ZV127       | 242      | 18   | 11.200 | 7       |
| ZV122       | 206      | 18   | 7.600  | 10      | ZV126       | 243      | 20   | 7.800  | 6       |
| ZC150       | 207      | 20   | 6.600  | 10      | ZV126       | 243      | 18   | 10.200 | 6       |
| ZC150       | 207      | 18   | 8.700  | 10      | ZP200       | 261      | 20   | 8.200  | 6       |
| ZC150       | 207      | 16   | 10.650 | 8       | ZP200       | 261      | 18   | 10.800 | 6       |
| ZC150       | 207      | 14   | 13.100 | 6       | ZP250       | 268      | 20   | 9.300  | 6       |
| ZC125       | 208      | 20   | 5.400  | 10      | ZP250       | 268      | 18   | 12.000 | 6       |
| ZC125       | 208      | 18   | 7.200  | 10      | ZC200       | 307      | 18   | 11.500 | 8       |
| ZC125       | 208      | 16   | 8.800  | 10      | ZC200       | 307      | 16   | 14.300 | 6       |
| ZC125       | 208      | 14   | 10.700 | 8       | ZC200       | 307      | 14   | 17.700 | 6       |
| ZR225       | 209      | 20   | 6.600  | 10      | ZP300       | 310      | 20   | 10.500 | 6       |
| ZR225       | 209      | 18   | 8.700  | 10      | ZP300       | 310      | 18   | 13.800 | 6       |
| ZC075       | 210      | 20   | 3.150  | 20      | ZR300       | 322      | 20   | 9.600  | 6       |
| ZC075       | 210      | 18   | 4.200  | 20      | ZR300       | 322      | 18   | 12.700 | 6       |
| ZV124       | 211      | 18   | 3.900  | 10      | ZR300       | 322      | 16   | 15.600 | 6       |
| ZC050       | 212      | 20   | 2.200  | 20      | ZR300       | 322      | 14   | 19.200 | 4       |
| ZC050       | 212      | 18   | 2.800  | 20      | ZR250       | 368      | 20   | 8.500  | 6       |
| ZR100       | 215      | 20   | 3.150  | 15      | ZP250       | 368      | 18   | 11.200 | 6       |
| ZR100       | 215      | 18   | 4.200  | 15      | ZP400       | 410      | 20   | 12.700 | 6       |
| ZR200       | 216      | 20   | 6.500  | 10      | ZR400       | 410      | 18   | 16.800 | 6       |
| ZR200       | 216      | 18   | 8.700  | 10      | ZR400       | 422      | 20   | 11.800 | 6       |
| ZR200       | 216      | 14   | 13.100 | 6       | ZR400       | 422      | 18   | 15.600 | 6       |
| ZV103       | 219      | 20   | 6.600  | 10      | ZR400       | 422      | 16   | 19.300 | 4       |
| ZV103       | 219      | 18   | 8.700  | 10      | ZR400       | 422      | 14   | 23.800 | 4       |



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**CON ALMA DE ACERO**

# 10 TABLERO PINTADO Y ZINTRO

# CUADRADO

| Figuras 147, 148 y 149 |                  |         |                         | Dimensión |            | Peso aprox.<br>Kgs. x |          |
|------------------------|------------------|---------|-------------------------|-----------|------------|-----------------------|----------|
| Ancho<br>Pies-m        | Largo<br>Pies-m. | Calibre | Peso aprox.<br>Kg./Pza. | Pulg      | mm.        | Metro                 | Pz.6.1m. |
| 3 (0.91)               | 3 (0.91)         | 20      | 6.06                    | 3/8       | 9.5        | .712                  | 4.34     |
| 3 (0.91)               | 4 (1.22)         | 20      | 8.01                    | 1/2       | 12.7       | 1.266                 | 7.72     |
| 3 (0.91)               | 6 (1.83)         | 20      | 12.12                   | 5/8       | 15.9       | 1.978                 | 12.07    |
| 3 (0.91)               | 8 (2.44)         | 20      | 16.18                   | 3/4       | 19.1       | 2.849                 | 17.38    |
| 3 (0.91)               | 10 (3.05)        | 20      | 20.21                   | 1         | 25.4       | 5.065                 | 30.90    |
| 4 (1.22)               | 3 (0.91)         | 20      | 8.08                    | 1 1/4     | 31.8       | 7.913                 | 48.27    |
| 4 (1.22)               | 4 (1.22)         | 20      | 10.78                   | 1 1/2     | 38.1       | 11.395                | 69.51    |
| 4 (1.22)               | 6 (1.83)         | 20      | 16.17                   |           |            |                       |          |
| 4 (1.22)               | 8 (2.44)         | 20      | 21.56                   |           |            |                       |          |
| 4 (1.22)               | 10 (3.05)        | 20      | 26.95                   |           |            |                       |          |
| 3 (0.91)               | 3 (0.91)         | 22      | 5.05                    | 1/8 x 1   | 3.2 x 25.4 | 1.32                  | 7.92     |
| 3 (0.91)               | 4 (1.22)         | 22      | 6.74                    |           |            |                       |          |
| 3 (0.91)               | 6 (1.83)         | 22      | 10.10                   |           |            |                       |          |
| 3 (0.91)               | 8 (2.44)         | 22      | 13.47                   |           |            |                       |          |
| 3 (0.91)               | 10 (3.05)        | 22      | 16.84                   |           |            |                       |          |
| 4 (1.22)               | 3 (0.91)         | 22      | 6.74                    |           |            |                       |          |
| 4 (1.22)               | 4 (1.22)         | 22      | 8.98                    |           |            |                       |          |
| 4 (1.22)               | 6 (1.83)         | 22      | 13.48                   |           |            |                       |          |
| 4 (1.22)               | 8 (2.44)         | 22      | 17.97                   |           |            |                       |          |
| 4 (1.22)               | 10 (3.05)        | 22      | 22.46                   |           |            |                       |          |

## TE

| Peso aprox.<br>kg/m |            | kg pz.6 m |      |
|---------------------|------------|-----------|------|
| Pulg.               | mm         |           |      |
| 1/8 x 1             | 3.2 x 25.4 | 1.32      | 7.92 |

## VIGAS I.P.S.

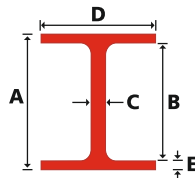
| Peralte | Patín (mm) | Alma        | Peso<br>aprox.<br>Kg./mtr. |
|---------|------------|-------------|----------------------------|
| Pulg    | mm         | Ancho<br>mm |                            |
| 3       | 76.2       | 59.23       | 4.3                        |
| 4       | 101.6      | 67.64       | 4.9                        |
| 5       | 127.0      | 76.30       | 5.4                        |
| 6       | 152.4      | 84.63       | 5.9                        |
| 8       | 200.0      | 89.99       | 7.5                        |

## CANAL C.P.S

| Altura o Peralte |            | Peso aprox. |        | Patín (mm) |         | Alma (mm) |
|------------------|------------|-------------|--------|------------|---------|-----------|
| Pulgadas         | Milímetros | lb/ft.      | kg/mt. | Ancho      | Espesor |           |
| 3                | 76.2       | 4.1         | 6.10   | 35.8       | 7       | 4         |
| 4                | 101.6      | 5.4         | 8.04   | 40.2       | 8       | 5         |
| 5                | 127.0      | 6.7         | 9.96   | 44.4       | 6       | 4         |
| 6                | 152.4      | 8.2         | 12.20  | 48.7       | 9       | 5         |
| 6                | 152.4      | 10.5        | 15.63  | 51.5       | 9       | 8         |
| 6                | 152.4      | 13.0        | 19.36  | 55.0       | 9       | 11        |
| 8                | 203.8      | 11.5        | 17.11  | 57.4       | 10      | 6         |
| 8                | 203.8      | 13.8        | 20.48  | 60.0       | 10      | 8         |
| 8                | 203.8      | 18.8        | 27.93  | 64.0       | 10      | 12        |
| 10               | 254.0      | 15.3        | 22.80  | 66.1       | 11      | 6         |
| 10               | 254.0      | 20.0        | 29.80  | 69.8       | 11      | 10        |
| 10               | 254.0      | 25.0        | 37.20  | 73.3       | 11      | 13        |
| 10               | 254.0      | 30.0        | 44.70  | 77.1       | 11      | 17        |
| 12               | 304.8      | 20.7        | 30.80  | 74.3       | 11      | 7         |
| 12               | 304.8      | 25.0        | 37.20  | 77.4       | 11      | 10        |
| 12               | 304.8      | 30.0        | 44.70  | 80.6       | 11      | 13        |
| 15               | 381.0      | 33.9        | 50.60  | 85.7       | 11      | 10        |
| 15               | 381.0      | 40.0        | 59.53  | 88.9       | 11      | 13        |
| 15               | 381.0      | 50.0        | 74.41  | 90.4       | 12      | 18        |

| Dimensiones<br>pulgadas | Peso aprox. |           | Dimensiones en mm.       |                          |                         |                     |                       |
|-------------------------|-------------|-----------|--------------------------|--------------------------|-------------------------|---------------------|-----------------------|
|                         | lb/<br>ft   | kg/<br>mt | Peralte<br>Exterior<br>A | Peralte<br>Interior<br>B | Espesor<br>Peralte<br>C | Ancho<br>Patin<br>D | Espesor<br>Patin<br>E |
| 4 X 4                   | 13          | 19.3      | 106                      | 88                       | 7.1                     | 103                 | 8.8                   |
| 5 X 5                   | 16          | 23.8      | 127                      | 109                      | 6.1                     | 127                 | 9.1                   |
| 5 X 5                   | 19          | 28.3      | 131                      | 109                      | 6.9                     | 128                 | 10.9                  |
| 6 X 4                   | 8.5         | 12.6      | 152                      | 140                      | 4.5                     | 100                 | 4.6                   |
| 6 X 4                   | 9           | 13.5      | 150                      | 139                      | 4.3                     | 100                 | 5.5                   |
| 6 X 4                   | 12          | 17.9      | 153                      | 138                      | 5.8                     | 102                 | 7.1                   |
| 6 X 4                   | 16          | 23.8      | 160                      | 139                      | 6.6                     | 102                 | 10.3                  |
| 6 X 6                   | 15          | 22.3      | 152                      | 139                      | 5.8                     | 152                 | 6.6                   |
| 6 X 6                   | 20          | 29.8      | 157                      | 138                      | 6.6                     | 153                 | 9.3                   |
| 6 X 6                   | 25          | 37.2      | 162                      | 139                      | 8.1                     | 154                 | 11.6                  |
| 8 X 4                   | 10          | 14.9      | 200                      | 190                      | 4.3                     | 100                 | 5.2                   |
| 8 X 4                   | 13          | 19.3      | 203                      | 190                      | 5.8                     | 102                 | 6.5                   |
| 8 X 4                   | 15          | 22.3      | 206                      | 190                      | 6.2                     | 102                 | 8.0                   |
| 8 X 5 1/4"              | 18          | 26.8      | 207                      | 190                      | 5.8                     | 133                 | 8.4                   |
| 8 X 5 1/4"              | 21          | 31.3      | 210                      | 190                      | 6.4                     | 134                 | 10.2                  |
| 8 X 6 1/2"              | 24          | 35.7      | 201                      | 181                      | 6.2                     | 201                 | 10.2                  |
| 8 X 6 1/2"              | 28          | 41.7      | 205                      | 181                      | 7.2                     | 205                 | 11.8                  |
| 8 X 8                   | 31          | 46.1      | 203                      | 181                      | 7.2                     | 203                 | 11.0                  |
| 8 X 8                   | 35          | 52.1      | 206                      | 181                      | 7.9                     | 204                 | 12.6                  |
| 8 X 8                   | 40          | 59.5      | 210                      | 182                      | 9.1                     | 205                 | 14.2                  |
| 8 X 8                   | 48          | 71.4      | 216                      | 181                      | 10.2                    | 206                 | 17.4                  |
| 8 X 8                   | 58          | 86.3      | 222                      | 181                      | 13.0                    | 209                 | 20.6                  |
| 8 X 8                   | 67          | 99.7      | 229                      | 182                      | 14.5                    | 210                 | 23.7                  |
| 10 X 4                  | 12          | 17.9      | 251                      | 240                      | 4.8                     | 101                 | 5.3                   |
| 10 X 4                  | 15          | 22.3      | 254                      | 240                      | 5.8                     | 102                 | 6.9                   |
| 10 X 4                  | 17          | 25.3      | 257                      | 240                      | 6.1                     | 102                 | 8.4                   |
| 10 X 4                  | 19          | 28.3      | 260                      | 240                      | 6.4                     | 102                 | 10.0                  |
| 10 X 5 3/4"             | 22          | 32.7      | 258                      | 240                      | 6.1                     | 146                 | 9.1                   |
| 10 X 5 3/4"             | 26          | 38.7      | 262                      | 240                      | 6.6                     | 147                 | 11.2                  |
| 10 X 5 3/4"             | 30          | 44.6      | 266                      | 240                      | 7.6                     | 147                 | 13.0                  |
| 10 X 8                  | 33          | 49.1      | 247                      | 225                      | 7.4                     | 202                 | 11.0                  |
| 10 X 8                  | 39          | 58.0      | 252                      | 225                      | 8.0                     | 203                 | 13.5                  |
| 10 X 8                  | 45          | 67.0      | 257                      | 226                      | 8.9                     | 204                 | 15.7                  |
| 10 X 10                 | 49          | 72.9      | 253                      | 225                      | 8.6                     | 254                 | 14.2                  |
| 10 X 10                 | 54          | 80.4      | 256                      | 225                      | 9.4                     | 255                 | 15.6                  |

- A** Peralte Exterior  
**B** Peralte Interior  
**C** Espesor Peralte  
**D** Ancho Patin  
**E** Espesor Patin



| Dimensiones<br>pulgadas | Peso aprox.<br>lb/<br>ft | kg/<br>mt | Dimensiones en mm.       |                          |                         |                     | Espeso<br>Patin<br>E |
|-------------------------|--------------------------|-----------|--------------------------|--------------------------|-------------------------|---------------------|----------------------|
|                         |                          |           | Peralte<br>Exterior<br>A | Peralte<br>Interior<br>B | Espesor<br>Peralte<br>C | Ancho<br>Patin<br>D |                      |
| 10 X 10                 | 60                       | 89.3      | 260                      | 225                      | 10.7                    | 256                 | 17.3                 |
| 10 X 10                 | 68                       | 101       | 264                      | 225                      | 11.9                    | 257                 | 19.6                 |
| 10 X 10                 | 77                       | 115       | 269                      | 225                      | 13.5                    | 259                 | 22.1                 |
| 10 X 10                 | 88                       | 131       | 275                      | 225                      | 15.4                    | 261                 | 25.1                 |
| 10 X 10                 | 100                      | 149       | 282                      | 225                      | 17.3                    | 263                 | 28.4                 |
| 10 X 10                 | 112                      | 167       | 289                      | 225                      | 19.2                    | 265                 | 31.8                 |
| 12 X 4                  | 14                       | 20.8      | 303                      | 292                      | 5.1                     | 101                 | 5.7                  |
| 12 X 4                  | 16                       | 23.8      | 305                      | 292                      | 5.6                     | 101                 | 6.7                  |
| 12 X 4                  | 19                       | 28.3      | 309                      | 291                      | 6.0                     | 102                 | 8.9                  |
| 12 X 4                  | 22                       | 32.7      | 313                      | 291                      | 6.6                     | 102                 | 10.8                 |
| 12 X 6 1/2 "            | 26                       | 38.7      | 310                      | 291                      | 5.8                     | 165                 | 9.7                  |
| 12 X 6 1/2 "            | 30                       | 44.6      | 313                      | 291                      | 6.6                     | 166                 | 11.2                 |
| 12 X 6 1/2 "            | 35                       | 52.1      | 317                      | 291                      | 7.6                     | 167                 | 13.2                 |
| 12 X 8                  | 40                       | 59.5      | 303                      | 277                      | 7.5                     | 203                 | 13.1                 |
| 12 X 8                  | 45                       | 67.0      | 306                      | 277                      | 8.5                     | 204                 | 14.6                 |
| 12 X 8                  | 50                       | 74.4      | 310                      | 277                      | 9.4                     | 205                 | 16.3                 |
| 12 X 10                 | 53                       | 78.9      | 306                      | 277                      | 8.8                     | 254                 | 14.6                 |
| 12 X 10                 | 58                       | 86.3      | 310                      | 277                      | 9.1                     | 254                 | 16.3                 |
| 12 X 12                 | 65                       | 96.7      | 308                      | 277                      | 9.9                     | 305                 | 15.4                 |
| 12 X 12                 | 72                       | 107       | 311                      | 277                      | 10.9                    | 306                 | 17.0                 |
| 12 X 12                 | 79                       | 118       | 314                      | 277                      | 11.9                    | 307                 | 18.7                 |
| 12 X 12                 | 87                       | 129       | 318                      | 277                      | 13.1                    | 308                 | 20.6                 |
| 12 X 12                 | 96                       | 143       | 323                      | 277                      | 14.0                    | 309                 | 22.9                 |
| 12 X 12                 | 106                      | 158       | 327                      | 277                      | 15.5                    | 310                 | 25.1                 |
| 12 X 12                 | 120                      | 179       | 333                      | 277                      | 18.0                    | 313                 | 28.1                 |
| 12 X 12                 | 136                      | 202       | 341                      | 277                      | 20.1                    | 315                 | 31.8                 |
| 12 X 12                 | 152                      | 226       | 348                      | 277                      | 22.1                    | 317                 | 35.6                 |
| 12 X 12                 | 170                      | 253       | 356                      | 277                      | 24.4                    | 319                 | 39.6                 |
| 12 X 12                 | 190                      | 283       | 365                      | 277                      | 26.9                    | 322                 | 44.1                 |
| 12 X 12                 | 210                      | 313       | 374                      | 277                      | 30.0                    | 325                 | 48.3                 |
| 12 X 12                 | 230                      | 342       | 382                      | 277                      | 32.6                    | 328                 | 52.6                 |
| 12 X 12                 | 252                      | 375       | 392                      | 277                      | 36.0                    | 332                 | 58.0                 |
| 12 X 12                 | 279                      | 415       | 400                      | 277                      | 38.0                    | 335                 | 64.0                 |
| 12 X 12                 | 305                      | 454       |                          |                          |                         |                     |                      |
| 12 X 12                 | 336                      | 500       | 405                      | 277                      | 42.0                    | 339                 | 74.0                 |

| Dimensiones<br>pulgadas | Peso aprox. |           | Dimensiones en mm.       |                          |                         |                     |                     |
|-------------------------|-------------|-----------|--------------------------|--------------------------|-------------------------|---------------------|---------------------|
|                         | lb/<br>ft   | kg/<br>mt | Peralte<br>Exterior<br>A | Peralte<br>Interior<br>B | Espesor<br>Peralte<br>C | Archo<br>Patin<br>D | Espeso<br>Pati<br>E |
| 14 X 5                  | 22          | 32.7      | 349                      | 332                      | 5.8                     | 127                 | 8.5                 |
| 14 X 5                  | 26          | 38.7      | 353                      | 332                      | 6.5                     | 128                 | 10.7                |
| 14 X 6 3/4"             | 30          | 44.6      | 352                      | 332                      | 6.9                     | 171                 | 9.8                 |
| 14 X 6 3/4"             | 34          | 50.6      | 355                      | 332                      | 7.2                     | 171                 | 11.6                |
| 14 X 6 3/4"             | 38          | 56.6      | 358                      | 332                      | 7.9                     | 172                 | 13.1                |
| 14 X 8                  | 43          | 64        | 347                      | 320                      | 7.7                     | 203                 | 13.5                |
| 14 X 8                  | 48          | 71.4      | 350                      | 320                      | 8.6                     | 204                 | 15.1                |
| 14 X 8                  | 53          | 78.9      | 354                      | 320                      | 9.4                     | 205                 | 16.8                |
| 14 X 10                 | 61          | 90.8      | 353                      | 320                      | 9.5                     | 254                 | 16.4                |
| 14 X 10                 | 68          | 101       | 357                      | 320                      | 10.5                    | 255                 | 18.3                |
| 14 X 10                 | 74          | 110       | 360                      | 320                      | 11.4                    | 256                 | 19.9                |
| 14 X 10                 | 82          | 122       | 363                      | 320                      | 13.0                    | 257                 | 21.7                |
| 14 X 14 1/2"            | 90          | 134       | 356                      | 320                      | 11.2                    | 369                 | 18.0                |
| 14 X 14 1/2"            | 99          | 147       | 360                      | 320                      | 12.3                    | 370                 | 19.8                |
| 14 X 14 1/2"            | 109         | 162       | 364                      | 320                      | 13.3                    | 371                 | 21.8                |
| 14 X 14 1/2"            | 120         | 179       | 368                      | 320                      | 15.0                    | 373                 | 23.9                |
| 14 X 14 1/2"            | 132         | 196       | 372                      | 320                      | 16.4                    | 374                 | 26.2                |
| 14 X 16                 | 145         | 216       | 375                      | 320                      | 17.3                    | 394                 | 27.7                |
| 14 X 16                 | 159         | 237       | 380                      | 320                      | 18.9                    | 395                 | 30.2                |
| 14 X 16                 | 176         | 262       | 387                      | 320                      | 21.1                    | 398                 | 33.3                |
| 14 X 16                 | 193         | 287       | 393                      | 320                      | 22.6                    | 399                 | 36.6                |
| 14 X 16                 | 211         | 314       | 399                      | 320                      | 24.9                    | 401                 | 39.6                |
| 14 X 16                 | 233         | 347       | 407                      | 320                      | 27.2                    | 404                 | 43.7                |
| 14 X 16                 | 257         | 382       | 416                      | 320                      | 29.8                    | 406                 | 48.0                |
| 14 X 16                 | 283         | 421       | 425                      | 320                      | 32.8                    | 409                 | 52.6                |
| 14 X 16                 | 311         | 463       | 435                      | 320                      | 35.8                    | 412                 | 57.4                |
| 14 X 16                 | 342         | 509       | 446                      | 321                      | 39.1                    | 416                 | 62.7                |
| 14 X 16                 | 370         | 551       | 455                      | 320                      | 42.0                    | 418                 | 67.6                |
| 14 X 16                 | 398         | 592       | 465                      | 320                      | 45.0                    | 421                 | 72.3                |
| 14 X 16                 | 426         | 634       | 474                      | 320                      | 47.6                    | 424                 | 77.1                |
| 14 X 16                 | 455         | 677       | 483                      | 320                      | 51.2                    | 428                 | 81.5                |
| 14 X 16                 | 500         | 744       | 498                      | 320                      | 55.6                    | 432                 | 88.9                |
| 14 X 16                 | 550         | 818       | 514                      | 320                      | 60.5                    | 437                 | 97.0                |
| 14 X 16                 | 605         | 900       | 531                      | 319                      | 65.9                    | 442                 | 106.0               |
| 14 X 16                 | 665         | 990       | 550                      | 320                      | 71.9                    | 448                 | 115.0               |

| Dimensiones<br>pulgadas | Peso aprox. |           | Dimensiones en mm.       |                          |                         |                     | Espeso<br>Pati<br>E |
|-------------------------|-------------|-----------|--------------------------|--------------------------|-------------------------|---------------------|---------------------|
|                         | lb/<br>ft   | kg/<br>mt | Peralte<br>Exterior<br>A | Peralte<br>Interior<br>B | Espesor<br>Peralte<br>C | Ancho<br>Patin<br>D |                     |
| 14 X 16                 | 730         | 1086      | 569                      | 319                      | 78.0                    | 454                 | 125.0               |
| 16 X 5 1/2"             | 26          | 39        | 399                      | 381                      | 6.4                     | 140                 | 8.8                 |
| 16 X 5 1/2"             | 31          | 46        | 403                      | 381                      | 7.0                     | 140                 | 11.2                |
| 16 X 7                  | 36          | 53.6      | 403                      | 381                      | 7.5                     | 177                 | 10.9                |
| 16 X 7                  | 40          | 59.5      | 407                      | 381                      | 7.7                     | 178                 | 12.8                |
| 16 X 7                  | 45          | 67        | 410                      | 381                      | 8.8                     | 179                 | 14.4                |
| 16 x 7                  | 50          | 74.4      | 413                      | 381                      | 9.7                     | 180                 | 16.0                |
| 16 X 7                  | 57          | 84.8      | 417                      | 381                      | 10.9                    | 181                 | 18.2                |
| 16 X 10 1/4"            | 67          | 100       | 415                      | 381                      | 10.0                    | 260                 | 16.9                |
| 16 X 10 1/4"            | 77          | 115       | 420                      | 381                      | 11.6                    | 261                 | 19.3                |
| 16 X 10 1/4"            | 89          | 132       | 425                      | 381                      | 13.3                    | 263                 | 22.2                |
| 16 X 10 1/4"            | 100         | 149       | 431                      | 381                      | 14.9                    | 265                 | 25.0                |
| 18 X 6                  | 35          | 52.1      | 450                      | 428                      | 7.6                     | 152                 | 10.8                |
| 18 X 6                  | 40          | 59.5      | 455                      | 428                      | 8.0                     | 153                 | 13.3                |
| 18 X 6                  | 46          | 68.5      | 459                      | 428                      | 9.1                     | 154                 | 15.4                |
| 18 X 7 1/2"             | 41          | 61        | 455                      | 430                      | 8.4                     | 190                 | 12.0                |
| 18 X 7 1/2"             | 45          | 67        | 458                      | 432                      | 8.7                     | 190                 | 12.3                |
| 18 X 7 1/2"             | 50          | 74.4      | 457                      | 428                      | 9.0                     | 190                 | 14.5                |
| 18 X 7 1/2"             | 55          | 81.8      | 460                      | 428                      | 9.9                     | 191                 | 16.0                |
| 18 X 7 1/2"             | 60          | 89.3      | 463                      | 428                      | 10.5                    | 192                 | 17.7                |
| 18 X 7 1/2"             | 65          | 96.7      | 466                      | 428                      | 11.4                    | 193                 | 19.0                |
| 18 X 7 1/2"             | 71          | 106       | 469                      | 428                      | 12.6                    | 194                 | 20.6                |
| 18 X 11                 | 76          | 113       | 463                      | 428                      | 10.8                    | 280                 | 17.3                |
| 18 X 11                 | 86          | 128       | 467                      | 428                      | 12.2                    | 282                 | 19.6                |
| 18 X 11                 | 97          | 144       | 472                      | 428                      | 13.6                    | 283                 | 22.1                |
| 18 X 11                 | 106         | 158       | 476                      | 428                      | 15.0                    | 284                 | 23.9                |
| 18 X 11                 | 119         | 177       | 482                      | 428                      | 16.6                    | 286                 | 26.9                |
| 18 X 11                 | 130         | 193       | 489                      | 428                      | 17.0                    | 283                 | 30.5                |
| 18 X 11                 | 143         | 213       | 495                      | 428                      | 18.5                    | 285                 | 33.5                |
| 18 X 11                 | 158         | 235       | 501                      | 428                      | 20.6                    | 287                 | 36.6                |
| 18 X 11                 | 175         | 260       | 509                      | 428                      | 22.6                    | 289                 | 40.4                |
| 18 X 11                 | 192         | 286       | 519                      | 428                      | 22.8                    | 293                 | 45.0                |
| 18 X 11                 | 211         | 314       |                          |                          |                         |                     |                     |
| 18 X 11                 | 234         | 348       |                          |                          |                         |                     |                     |
| 18 X 11                 | 258         | 384       |                          |                          |                         |                     |                     |

| Dimensiones<br>pulgadas | Peso aprox. |           | Dimensiones en mm.       |                          |                         |                     |                       |
|-------------------------|-------------|-----------|--------------------------|--------------------------|-------------------------|---------------------|-----------------------|
|                         | lb/<br>ft   | kg/<br>mt | Peralte<br>Exterior<br>A | Peralte<br>Interior<br>B | Espesor<br>Peralte<br>C | Ancho<br>Patin<br>D | Espesor<br>Patin<br>E |
| 18 X 11                 | 283         | 421       |                          |                          |                         |                     |                       |
| 18 X 11                 | 311         | 463       |                          |                          |                         |                     |                       |
| 21 X 6 1/2"             | 44          | 65.5      | 525                      | 502                      | 8.9                     | 165                 | 11.4                  |
| 21 X 6 1/2"             | 50          | 74.4      | 529                      | 502                      | 9.7                     | 166                 | 13.6                  |
| 21 X 6 1/2"             | 57          | 84.8      | 535                      | 502                      | 10.3                    | 166                 | 16.5                  |
| 21 X 8 1/4"             | 48          | 71.4      | 522                      | 500                      | 8.2                     | 208                 | 11.9                  |
| 21 X 8 1/4"             | 55          | 81.8      |                          |                          |                         |                     |                       |
| 21 X 8 1/4"             | 62          | 92.3      | 533                      | 502                      | 10.2                    | 209                 | 15.6                  |
| 21 X 8 1/4"             | 68          | 101       | 537                      | 502                      | 10.9                    | 210                 | 17.4                  |
| 21 X 8 1/4"             | 73          | 109       | 539                      | 501                      | 11.6                    | 211                 | 18.8                  |
| 21 X 8 1/4"             | 83          | 124       | 544                      | 502                      | 13.1                    | 212                 | 21.2                  |
| 21 X 8 1/4"             | 93          | 138       | 549                      | 502                      | 14.7                    | 214                 | 23.6                  |
| 21 X 12 1/4"            | 101         | 150       | 543                      | 502                      | 12.7                    | 312                 | 20.3                  |
| 21 X 12 1/4"            | 111         | 165       | 546                      | 502                      | 14.0                    | 313                 | 22.2                  |
| 21 X 12 1/2"            | 122         | 182       | 551                      | 502                      | 15.2                    | 315                 | 24.4                  |
| 21 X 12 1/2"            | 132         | 196       | 554                      | 501                      | 16.5                    | 316                 | 26.3                  |
| 21 X 12 1/2"            | 147         | 219       | 560                      | 502                      | 18.3                    | 318                 | 29.2                  |
| 21 X 12 1/2"            | 166         | 247       | 571                      | 502                      | 19.0                    | 315                 | 34.5                  |
| 21 X 12 1/2"            | 182         | 271       | 577                      | 502                      | 21.1                    | 318                 | 37.6                  |
| 21 X 12 1/2"            | 201         | 299       | 585                      | 502                      | 23.1                    | 319                 | 41.4                  |
| 21 X 12 1/2"            | 223         | 332       |                          |                          |                         |                     |                       |
| 21 X 12 1/2"            | 248         | 369       |                          |                          |                         |                     |                       |
| 21 X 12 1/2"            | 275         | 409       |                          |                          |                         |                     |                       |
| 24 X 7                  | 55          | 81.8      | 599                      | 573                      | 10.0                    | 178                 | 12.8                  |
| 24 X 7                  | 62          | 92.3      | 603                      | 573                      | 10.9                    | 179                 | 15.0                  |
| 24 X 9                  | 56          | 83.3      | 599                      | 573                      | 9.0                     | 228                 | 13.0                  |
| 24 X 9                  | 61          | 90.8      |                          |                          |                         |                     |                       |
| 24 X 9                  | 68          | 101       | 603                      | 573                      | 10.5                    | 228                 | 14.9                  |
| 24 X 9                  | 76          | 113       | 608                      | 573                      | 11.2                    | 228                 | 17.3                  |
| 24 X 9                  | 84          | 125       | 612                      | 573                      | 11.9                    | 229                 | 19.6                  |
| 24 X 9                  | 94          | 140       | 617                      | 573                      | 13.1                    | 230                 | 22.2                  |
| 24 X 9                  | 103         | 153       | 623                      | 573                      | 14.0                    | 229                 | 24.9                  |
| 24 X 12 3/4"            | 104         | 155       | 611                      | 573                      | 12.7                    | 324                 | 19.0                  |
| 24 X 12 3/4"            | 117         | 174       | 616                      | 573                      | 14.0                    | 325                 | 21.6                  |
| 24 X 12 3/4"            | 131         | 195       | 622                      | 573                      | 15.4                    | 327                 | 24.4                  |

| Dimensiones<br>pulgadas | Peso aprox. |           | Dimensiones en mm.       |                          |                         |                     | Espeso<br>Patin<br>E |
|-------------------------|-------------|-----------|--------------------------|--------------------------|-------------------------|---------------------|----------------------|
|                         | lb/<br>ft   | kg/<br>mt | Peralte<br>Exterior<br>A | Peralte<br>Interior<br>B | Espesor<br>Peralte<br>C | Ancho<br>Patin<br>D |                      |
| 24 X 12 3/4"            | 146         | 217       | 628                      | 573                      | 16.5                    | 328                 | 27.7                 |
| 24 X 12 3/4"            | 162         | 241       | 635                      | 573                      | 17.1                    | 329                 | 31.0                 |
| 24 X 12 3/4"            | 176         | 262       | 641                      | 573                      | 19.0                    | 327                 | 34.0                 |
| 24 X 12 3/4"            | 192         | 286       | 647                      | 573                      | 20.6                    | 329                 | 37.1                 |
| 24 X 12 3/4"            | 207         | 308       | 660                      | 573                      | 22.0                    | 333                 | 39.0                 |
| 24 X 12 3/4"            | 229         | 341       | 661                      | 573                      | 24.4                    | 333                 | 43.9                 |
| 24 X 12 3/4"            | 250         | 372       | 670                      | 573                      | 26.6                    | 335                 | 47.5                 |
| 24 X 12 3/4"            | 279         | 415       | 679                      | 573                      | 29.5                    | 338                 | 53.1                 |
| 24 X 12 3/4"            | 306         | 455       | 689                      | 573                      | 32.0                    | 340                 | 57.9                 |
| 24 X 12 3/4"            | 335         | 499       | 699                      | 573                      | 35.1                    | 343                 | 63.0                 |
| 24 X 12 3/4"            | 370         | 551       | 711                      | 573                      | 38.6                    | 347                 | 69.1                 |
| 27 X 10                 | 84          | 125       | 678                      | 645                      | 11.7                    | 253                 | 16.3                 |
| 27 X 10                 | 94          | 140       | 684                      | 646                      | 12.4                    | 254                 | 18.9                 |
| 27 X 10                 | 102         | 152       | 688                      | 646                      | 13.1                    | 254                 | 21.1                 |
| 27 X 10                 | 114         | 170       | 693                      | 646                      | 14.5                    | 256                 | 23.6                 |
| 27 X 10                 | 129         | 192       | 702                      | 646                      | 15.5                    | 254                 | 27.9                 |
| 27 X 14                 | 146         | 217       | 700                      | 650                      | 15.0                    | 358                 | 25.3                 |
| 27 X 14                 | 161         | 240       |                          |                          |                         |                     |                      |
| 27 X 14                 | 178         | 265       | 707                      | 647                      | 19.0                    | 362                 | 30.0                 |
| 27 X 14                 | 194         | 289       | 716                      | 645                      | 19.0                    | 358                 | 33.0                 |
| 27 X 14                 | 217         | 323       | 727                      | 650                      | 21.0                    | 361                 | 38.0                 |
| 27 X 14                 | 235         | 350       | 728                      | 647                      | 23.0                    | 362                 | 41.0                 |
| 27 X 14                 | 258         | 384       | 733                      | 647                      | 25.0                    | 364                 | 44.0                 |
| 27 X 14                 | 281         | 418       | 745                      | 648                      | 28.0                    | 365                 | 49.0                 |
| 27 X 14                 | 307         | 457       | 753                      | 648                      | 30.0                    | 368                 | 53.0                 |
| 27 X 14                 | 336         | 500       | 762                      | 649                      | 32.0                    | 370                 | 57.0                 |
| 27 X 14                 | 368         | 548       | 772                      | 647                      | 33.0                    | 370                 | 61.0                 |
| 30 X 10 1/2"            | 90          | 134       | 746                      | 716                      | 11.9                    | 265                 | 14.9                 |
| 30 X 10 1/2"            | 99          | 147       | 753                      | 719                      | 13.2                    | 265                 | 17.0                 |
| 30 X 10 1/2"            | 108         | 161       | 758                      | 719                      | 13.8                    | 266                 | 19.3                 |
| 30 X 10 1/2"            | 116         | 173       | 762                      | 719                      | 14.4                    | 267                 | 21.6                 |
| 30 X 10 1/2"            | 124         | 185       | 766                      | 719                      | 14.9                    | 267                 | 23.6                 |
| 30 X 10 1/2"            | 132         | 196       | 770                      | 719                      | 15.6                    | 268                 | 25.4                 |
| 30 X 10 1/2"            | 148         | 220       | 779                      | 719                      | 16.5                    | 266                 | 30.0                 |
| 30 X 15                 | 173         | 257       | 772                      | 722                      | 16.6                    | 390                 | 25.4                 |

| Dimensiones<br>pulgadas | Peso aprox. |           | Dimensiones en mm.       |                          |                         |                     | Espesor<br>Patin<br>E |
|-------------------------|-------------|-----------|--------------------------|--------------------------|-------------------------|---------------------|-----------------------|
|                         | lb/<br>ft   | kg/<br>mt | Peralte<br>Exterior<br>A | Peralte<br>Interior<br>B | Espesor<br>Peralte<br>C | Ancho<br>Patin<br>D |                       |
| 30 X 15                 | 191         | 284       | 784                      | 722                      | 18.0                    | 384                 | 29.1                  |
| 30 X 15                 | 211         | 314       | 790                      | 722                      | 20.0                    | 385                 | 32.0                  |
| 30 X 15                 | 235         | 350       | 796                      | 722                      | 24.0                    | 385                 | 36.0                  |
| 30 X 15                 | 261         | 388       | 803                      | 723                      | 23.0                    | 389                 | 41.0                  |
| 30 X 15                 | 292         | 435       | 803                      | 720                      | 25.0                    | 385                 | 46.0                  |
| 30 X 15                 | 326         | 485       | 825                      | 722                      | 29.0                    | 390                 | 53.0                  |
| 30 X 15                 | 357         | 531       | 831                      | 723                      | 31.0                    | 388                 | 54.0                  |
| 30 X 15                 | 391         | 582       | 840                      | 718                      | 34.0                    | 388                 | 61.0                  |
| 33 X 11 1/2"            | 118         | 176       | 835                      | 797                      | 14.0                    | 292                 | 18.8                  |
| 33 X 11 1/2"            | 130         | 193       | 840                      | 797                      | 14.7                    | 292                 | 21.7                  |
| 33 X 11 1/2"            | 141         | 210       | 846                      | 797                      | 15.4                    | 293                 | 24.4                  |
| 33 X 11 1/2"            | 152         | 226       | 851                      | 797                      | 16.1                    | 294                 | 26.8                  |
| 33 X 11 1/2"            | 169         | 252       | 859                      | 797                      | 17.0                    | 292                 | 31.0                  |
| 33 X 15 3/4"            | 201         | 299       | 861                      | 801                      | 18.0                    | 403                 | 29.0                  |
| 33 X 15 3/4"            | 221         | 329       | 862                      | 800                      | 20.0                    | 403                 | 32.0                  |
| 33 X 15 3/4"            | 241         | 359       | 871                      | 802                      | 21.0                    | 410                 | 34.0                  |
| 33 X 15 3/4"            | 263         | 391       | 879                      | 800                      | 28.0                    | 402                 | 38.0                  |
| 33 X 15 3/4"            | 291         | 433       | 885                      | 801                      | 26.0                    | 404                 | 41.0                  |
| 33 X 15 3/4"            | 318         | 473       | 891                      | 800                      | 27.0                    | 405                 | 51.0                  |
| 33 X 15 3/4"            | 354         | 527       | 902                      | 801                      | 29.0                    | 403                 | 51.0                  |
| 33 X 15 3/4"            | 387         | 576       | 911                      | 798                      | 33.0                    | 410                 | 55.0                  |
| 36 X 12                 | 135         | 201       | 903                      | 863                      | 15.2                    | 304                 | 20.1                  |
| 36 X 12                 | 150         | 223       | 911                      | 863                      | 15.9                    | 304                 | 23.9                  |
| 36 X 12                 | 160         | 238       | 915                      | 863                      | 16.5                    | 305                 | 25.9                  |
| 36 X 12                 | 170         | 253       | 919                      | 863                      | 17.3                    | 306                 | 27.9                  |
| 36 X 12                 | 182         | 271       | 923                      | 863                      | 18.4                    | 307                 | 30.0                  |
| 36 X 12                 | 194         | 289       | 927                      | 863                      | 19.4                    | 308                 | 32.0                  |
| 36 X 12                 | 210         | 313       | 932                      | 863                      | 21.1                    | 309                 | 34.5                  |
| 36 X 12                 | 232         | 345       | 940                      | 863                      | 22.0                    | 311                 | 39.0                  |
| 36 X 12                 | 256         | 381       | 948                      | 863                      | 23.0                    | 313                 | 43.0                  |
| 36 X 16 1/2"            | 231         | 344       | 927                      | 825                      | 19.3                    | 418                 | 32.0                  |
| 36 X 16 1/2"            | 247         | 368       | 931                      | 824                      | 20.3                    | 419                 | 34.3                  |
| 36 X 16 1/2"            | 262         | 390       | 936                      | 824                      | 21.3                    | 420                 | 36.6                  |
| 36 X 16 1/2"            | 282         | 420       | 943                      | 825                      | 22.5                    | 422                 | 39.9                  |
| 36 X 16 1/2"            | 302         | 449       | 948                      | 825                      | 24.0                    | 423                 | 42.7                  |

| Dimensiones<br>pulgadas | Peso aprox. |           | Dimensiones en mm.       |                          |                         |                     |                       |
|-------------------------|-------------|-----------|--------------------------|--------------------------|-------------------------|---------------------|-----------------------|
|                         | lb/<br>ft   | kg/<br>mt | Peralte<br>Exterior<br>A | Peralte<br>Interior<br>B | Espesor<br>Peralte<br>C | Ancho<br>Patin<br>D | Espesor<br>Patin<br>E |
| 36 X 16 1/2"            | 330         | 491       | 957                      | 825                      | 25.9                    | 422                 | 47.0                  |
| 36 X 16 1/2"            | 361         | 537       | 965                      | 825                      | 28.4                    | 425                 | 51.1                  |
| 36 X 16 1/2"            | 395         | 588       | 976                      | 825                      | 31.0                    | 427                 | 55.9                  |
| 36 X 16 1/2"            | 441         | 656       | 987                      | 825                      | 34.5                    | 431                 | 62.0                  |
| 36 X 16 1/2"            | 487         | 725       | 999                      | 825                      | 38.1                    | 434                 | 68.1                  |
| 36 X 16 1/2"            | 529         | 787       | 1011                     | 825                      | 40.9                    | 437                 | 73.9                  |
| 36 X 16 1/2"            | 652         | 970       | 1043                     | 825                      | 50.0                    | 446                 | 89.9                  |
| 40 X 12                 | 149         | 222       | 970                      | 928                      | 16.0                    | 300                 | 21.1                  |
| 40 X 12                 | 167         | 249       | 980                      | 928                      | 16.5                    | 300                 | 26.0                  |
| 40 X 12                 | 183         | 272       | 990                      | 928                      | 16.5                    | 300                 | 31.0                  |
| 40 X 12                 | 211         | 314       | 1000                     | 928                      | 19.1                    | 300                 | 35.9                  |
| 40 X 12                 | 235         | 350       | 1008                     | 928                      | 21.1                    | 302                 | 40.0                  |
| 40 X 12                 | 249         | 371       |                          |                          |                         |                     |                       |
| 40 X 12                 | 264         | 393       | 1016                     | 928                      | 24.4                    | 303                 | 43.9                  |
| 40 X 12                 | 278         | 414       | 1020                     | 928                      | 26.0                    | 304                 | 46.0                  |
| 40 X 12                 | 294         | 438       | 1026                     | 928                      | 27.0                    | 305                 | 49.0                  |
| 40 X 12                 | 327         | 487       |                          |                          |                         |                     |                       |
| 40 X 12                 | 331         | 493       | 1036                     | 928                      | 31.0                    | 309                 | 54.0                  |
| 40 X 12                 | 392         | 583       | 1056                     | 928                      | 36.0                    | 314                 | 64.0                  |
| 40 X 16                 | 199         | 296       | 982                      | 928                      | 16.5                    | 400                 | 27.1                  |
| 40 X 16                 | 215         | 320       | 990                      | 928                      | 16.5                    | 400                 | 31.0                  |
| 40 X 16                 | 249         | 371       | 1000                     | 928                      | 19.0                    | 400                 | 36.1                  |
| 40 X 16                 | 277         | 412       | 1008                     | 928                      | 21.1                    | 402                 | 40.0                  |
| 40 X 16                 | 297         | 442       | 1012                     | 928                      | 23.6                    | 402                 | 41.9                  |
| 40 X 16                 | 324         | 482       | 1020                     | 928                      | 25.4                    | 404                 | 46.0                  |
| 40 X 16                 | 362         | 539       | 1030                     | 928                      | 28.4                    | 407                 | 51.1                  |
| 40 X 16                 | 372         | 554       | 1032                     | 928                      | 29.5                    | 408                 | 52.0                  |
| 40 X 16                 | 397         | 591       | 1040                     | 928                      | 31.0                    | 409                 | 55.9                  |
| 40 X 16                 | 431         | 641       | 1048                     | 928                      | 34.0                    | 412                 | 60.0                  |
| 40 X 16                 | 503         | 749       | 1068                     | 928                      | 39.0                    | 417                 | 70.0                  |
| 40 X 16                 | 593         | 882       | 1092                     | 928                      | 45.5                    | 424                 | 82.0                  |
| 44 X 16                 | 230         | 342       | 1090                     | 1028                     | 18.0                    | 400                 | 31.0                  |
| 44 X 16                 | 262         | 390       | 1100                     | 1028                     | 20.0                    | 400                 | 36.0                  |
| 44 X 16                 | 290         | 432       | 1108                     | 1028                     | 22.0                    | 402                 | 40.0                  |
| 44 X 16                 | 335         | 499       | 1118                     | 1028                     | 26.0                    | 405                 | 45.0                  |

| Núm. | Pulg. | mm   | Peso aprox.<br>kg/m | Pzas. Aprox<br>de 12m x ton. |
|------|-------|------|---------------------|------------------------------|
| 2.5  | 5/16  | 7.9  | 0.384               | 214                          |
| 3    | 3/8   | 9.5  | 0.560               | 148                          |
| 4    | 1/2   | 12.7 | 0.994               | 83                           |
| 5    | 5/8   | 15.9 | 1.552               | 53                           |
| 6    | 3/4   | 19.1 | 2.235               | 37                           |
| 8    | 1     | 25.4 | 3.973               | 20                           |
| 10   | 1 1/4 | 31.8 | 6.225               | 13                           |
| 12   | 1 1/2 | 38.1 | 8.938               | 9                            |

**LÁMINAS GALVANIZADAS Y PINTADAS ACANALADAS**

|       |                                    |              |         |
|-------|------------------------------------|--------------|---------|
| 0-100 |                                    | GALVADECK 25 |         |
| 0-30  | EN                                 | (LOSACERO)   | EN      |
| 0-725 | TODAS                              | HR-71        | TODAS   |
| R-72  | SUS                                | HR-99        | SUS     |
| R-101 | MEDIDAS                            | RN-100/35    | MEDIDAS |
| R-90  | Preguntar por las especificaciones |              |         |

**TUBERÍA NEGRA CÉDULA 30**

(TRAMOS DE 6.0 M)

| Diámetro Nominal |            | Diámetro Exterior mm | Espesor Milímetros | Peso aprox Kg/Pza. | Piezas x atado |
|------------------|------------|----------------------|--------------------|--------------------|----------------|
| Pulgadas         | Milímetros |                      |                    |                    |                |
| 1/2"             | 12.7       | 21.3                 | 1.90               | 5.56               | 127            |
| 3/4"             | 19.1       | 26.7                 | 1.90               | 6.78               | 127            |
| 1"               | 25.4       | 33.4                 | 1.90               | 9.00               | 91             |
| 1 1/4"           | 31.8       | 42.2                 | 2.29               | 14.10              | 91             |
| 1 1/2"           | 38.1       | 48.3                 | 2.29               | 16.20              | 61             |
| 2"               | 50.8       | 60.3                 | 2.67               | 23.70              | 37             |
| 2 1/2"           | 63.5       | 73.0                 | 2.67               | 27.78              | 37             |
| 3"               | 76.2       | 88.9                 | 3.05               | 40.20              | 24             |
| 4"               | 101.6      | 114.3                | 3.05               | 52.20              | 24             |

**TUBERÍA GALVANIZADA Y NEGRA CÉDULA 40**

(TRAMOS DE 6.4 M)

| Diámetro Nominal |            | Diámetro Exterior mm | Espesor Milímetros | Peso aprox Kg./Pza. |
|------------------|------------|----------------------|--------------------|---------------------|
| Pulgadas         | Milímetros |                      |                    |                     |
| 1/2"             | 12.7       | 21.3                 | 2.77               | 8.13                |
| 3/4"             | 19.1       | 26.7                 | 2.87               | 10.82               |
| 1"               | 25.4       | 33.4                 | 3.38               | 16.00               |
| 1 1/4"           | 31.8       | 42.2                 | 3.56               | 21.70               |
| 1 1/2"           | 38.1       | 48.3                 | 3.68               | 25.92               |
| 2"               | 50.8       | 60.3                 | 3.91               | 34.82               |
| 2 1/2"           | 63.5       | 73.0                 | 5.16               | 55.23               |
| 3"               | 76.2       | 88.9                 | 5.49               | 72.26               |
| 4"               | 101.6      | 114.3                | 6.08               | 102.85              |


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Somos distribuidores de tubería para redes contra incendio (sprinkler pipe), producida por Bull Moose Tube Company, empresa líder dentro del mercado de tubería. La tubería contra incendio que distribuimos cumple con los estándares de calidad de la industria.

## VENTAJAS

- Aprobada por las organizaciones Underwriters Laboratories (UL) y Factory Mutual (FM), donde certifican la excelente calidad de nuestra tubería.
- Certificación doble bajo las especificaciones de la norma ASTM A-135 y A-795.
- Tenemos un stock de las medidas más importantes para responder con rapidez a sus requerimientos.
- Todas nuestras tuberías están protegidas con un recubrimiento anti-bacterial, llamado Eddy Guard II, que permite detener e inhibir la formación de la corrosión influenciada microbiológicamente (MIC).
- Manejamos las siguientes presentaciones: Cédula 40, Cédula 10, Eddy Thread y Eddy Flow.

## CÉDULA 40 & CÉDULA 10

Nuestra tubería Cédula 40 y Cédula 10 está certificada por las organizaciones UL y FM, aunque estos productos no requieren esta aprobación directamente.

Los tenemos disponibles en los siguientes tamaños:

## TUBERÍA CÉDULA 10

| TAMAÑO NOMINAL | D.E.   | D.I.   | PESO APROX. / PIE | PZAS. X ATADO |
|----------------|--------|--------|-------------------|---------------|
| 1"             | 1.315" | 1.097" | 1.41 lbs / pie    | 91            |
| 1 1/4"         | 1.660" | 1.442" | 1.81 lbs / pie    | 61            |
| 1 1/2"         | 1.900" | 1.682" | 2.09 lbs / pie    | 61            |
| 2"             | 2.375" | 2.157" | 2.64 lbs / pie    | 37            |
| 2 1/2"         | 2.875" | 2.635" | 3.53 lbs / pie    | 30            |
| 3"             | 3.500" | 3.260" | 4.34 lbs / pie    | 19            |
| 4"             | 4.500" | 4.260" | 5.62 lbs / pie    | 19            |



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## TUBERÍA CÉDULA 40

| TAMAÑO NOMINAL | D.E.   | D.I.   | PESO APROX. / PIE | PZAS. X ATADO |
|----------------|--------|--------|-------------------|---------------|
| 1"             | 1.315" | 1.049" | 1.68 lbs / pie    | 70            |
| 1 ¼"           | 1.660" | 1.380" | 2.27 lbs / pie    | 51            |
| 1 ½"           | 1.900" | 1.610" | 2.72 lbs / pie    | 44            |
| 2"             | 2.375" | 2.067" | 3.66 lbs / pie    | 30            |
| 2 ½"           | 2.875" | 2.468" | 5.80 lbs / pie    | 30            |
| 3"             | 3.500" | 3.068" | 7.58 lbs / pie    | 19            |
| 4"             | 4.500" | 4.260" | 10.80 lbs / pie   | 19            |

## EDDY THREAD

Es la tubería diseñada cuidadosamente para que sea el sustituto de bajo peso para la tubería cédula 40, teniendo las siguientes características:

- Índice de Resistencia a la Corrosión (CRR) de 1
- Diseñada para presión de 300 psi.
- Menor peso que la cédula 40
- Aprobada por las organizaciones UL y FM
- Fabricada bajo las especificaciones de la norma ASTM A-135 y A-795
- Puede ser utilizada con los coples, válvulas y uniones roscables estándar que se utilizan con la Cédula 40.
- Se puede utilizar con sistemas de tubería seca, de tubería mojada, de acción previa o de diluvio.
- Se obtienen menores costos en cuanto a fletes (por menor peso)
- Protegida con el recubrimiento EDDY GUARD II.

Disponible en los siguientes tamaños:

| TAMAÑO NOMINAL | PESO APROX. LB/PIE | DIAMETRO INTERIOR | PZAS. X ATADO |
|----------------|--------------------|-------------------|---------------|
| 1"             | 1.461              | 1.083"            | 70            |
| 1 ¼"           | 2.070              | 1.418"            | 51            |
| 1 ½"           | 2.547              | 1.654"            | 44            |
| 2"             | 3.308              | 2.123"            | 30            |

## EDDY FLOW

Diseñada para ser el sustituto de bajo peso para la tubería cédula 10, tiene las siguientes características:

- Ofrece mejores características hidráulicas y flexibilidad en cuanto al diseño.
- Aprobada por las organizaciones UL y FM
- Fabricada bajo las especificaciones de la norma ASTM A-135 y A-795
- Puede ser utilizada con los coples, válvulas y uniones estándar que se utilizan con la Cédula 10.
- Menor peso que la cédula 10, lo que se refleja en menores costos de flete y manejo más fácil de la tubería.
- Diseñada para presión de 300 psi.
- Se puede utilizar con sistemas de tubería seca y de tubería mojada
- Protegida con el recubrimiento EDDY GUARD II.

Disponible en los siguientes tamaños:

| TAMAÑO NOMINAL | D.E.  | D.I.  | PZAS. X ATADO |
|----------------|-------|-------|---------------|
| 1 1/4"         | 1.660 | 1.530 | 61            |
| 1 1/2          | 1.900 | 1.728 | 61            |
| 2              | 2.375 | 2.203 | 37            |
| 2 1/2          | 2.875 | 2.705 | 30            |
| 3              | 3.500 | 3.334 | 19            |
| 4              | 4.500 | 4.310 | 19            |

| Diámetro Diám. Ext. |         |       | Espesor de pared |                 |        | Cédula    | Peso aprox. |        |
|---------------------|---------|-------|------------------|-----------------|--------|-----------|-------------|--------|
| Nominal             | Pulg.   | mm    | Fracc. Pulg.     | Milésimas Pulg. | mm     |           | Lb/pie      | kg/m   |
| 6"                  | 6 5/8"  | 168.3 | 3/16"            | 0.188"          | 4.78   | 40        | 12.92       | 19.35  |
|                     |         |       | 7/32"            | 0.219"          | 5.60   | 40        | 14.98       | 22.47  |
|                     |         |       | 1/4"             | 0.250"          | 6.35   | 40        | 17.02       | 25.55  |
|                     |         |       | 9/32"            | 0.280"          | 7.10   | 40        | 18.97       | 28.22  |
|                     |         |       | 3/8"             | 0.375"          | 9.50   | 40        | 24.99       | 37.20  |
| 8"                  | 8 5/8"  | 219.1 | 3/16"            | 0.188"          | 4.78   | 10        | 16.94       | 25.37  |
|                     |         |       | 7/32"            | 0.219"          | 5.60   | 20        | 19.66       | 29.48  |
|                     |         |       | 1/4"             | 0.250"          | 6.35   | 20        | 22.36       | 33.57  |
|                     |         |       | 5/16"            | 0.312"          | 7.90   | 30        | 27.70       | 41.14  |
|                     |         |       |                  | 0.322"          | 8.20   | 40        | 28.55       | 42.65  |
|                     |         |       | 3/8"             | 0.375"          | 9.50   | 40        | 33.04       | 49.10  |
|                     |         |       | 1/2"             | 0.500"          | 12.70  | 80        | 43.99       | 65.47  |
| 10"                 | 10 3/4" | 273.1 | 3/16"            | 0.188"          | 4.78   | 10        | 21.21       | 31.76  |
|                     |         |       | 7/32"            | 0.219"          | 5.60   | 10        | 24.63       | 36.94  |
|                     |         |       |                  | 0.225"          | 5.72   | 10        | 24.66       | 36.69  |
|                     |         |       | 1/4"             | 0.250"          | 6.35   | 20        | 28.04       | 42.09  |
|                     |         |       |                  | 0.307"          | 7.80   | 30        | 34.24       | 51.03  |
|                     |         |       |                  | 0.365"          | 9.27   | 40        | 40.48       | 60.50  |
|                     |         |       | 3/8"             | 0.375"          | 9.50   | 40        | 41.10       | 61.16  |
|                     |         |       | 1/2"             | 0.500"          | 12.70  | 60        | 54.80       | 81.55  |
|                     |         |       |                  | 3/16"           | 0.188" | 4.78      | 10          | 25.22  |
| 12"                 | 12 3/4" | 323.9 | 7/32"            | 0.219"          | 5.60   | 10        | 29.31       | 43.96  |
|                     |         |       |                  | 0.225"          | 5.72   | 10        | 30.30       | 45.09  |
|                     |         |       | 1/4"             | 0.250"          | 6.35   | 20        | 33.38       | 50.11  |
|                     |         |       | 3/8"             | 0.375"          | 9.50   | CED. STD. | 49.56       | 73.65  |
|                     |         |       | 13/32"           | 0.406"          | 10.30  | 40        | 53.52       | 79.65  |
|                     |         |       |                  | 0.210"          | 5.30   | 10        | 30.93       | 45.78  |
|                     |         |       |                  | 0.225"          | 5.72   | 10        | 32.68       | 48.63  |
| 14"                 | 14"     | 355.6 | 1/4"             | 0.250"          | 6.35   | 10        | 36.71       | 55.11  |
|                     |         |       | 5/16"            | 0.312"          | 7.90   | 20        | 45.61       | 67.74  |
|                     |         |       | 3/8"             | 0.375"          | 9.50   | 30        | 54.57       | 81.08  |
|                     |         |       |                  | 0.438"          | 11.10  | 40        | 63.44       | 94.30  |
|                     |         |       |                  | 0.465"          | 11.81  | 40        | 67.87       | 101.00 |
|                     |         |       | 1/2"             | 0.500"          | 12.70  | EXT. FTE. | 72.09       | 107.39 |
|                     |         |       |                  | 7/32"           | 0.219" | 5.60      | 10          | 36.91  |
| 16"                 | 16"     | 406.4 |                  | 0.225"          | 5.72   | 10        | 37.28       | 55.48  |
|                     |         |       | 1/4"             | 0.250"          | 6.35   | 10        | 42.05       | 63.13  |
|                     |         |       |                  | 0.281"          | 7.14   | 20        | 47.17       | 69.91  |
|                     |         |       | 5/16"            | 0.312"          | 7.90   | 20        | 52.27       | 77.63  |
|                     |         |       | 3/8"             | 0.375"          | 9.50   | 30        | 62.58       | 92.98  |
|                     |         |       | 1/2"             | 0.500"          | 12.70  | 40        | 82.77       | 123.30 |
| 18"                 | 18"     | 457.2 | 1/4"             | 0.250"          | 6.35   | 10        | 47.39       | 71.12  |
|                     |         |       | 5/16"            | 0.312"          | 7.90   | 20        | 58.94       | 87.49  |
|                     |         |       | 3/8"             | 0.375"          | 9.50   | CED. STD. | 70.59       | 104.84 |
|                     |         |       | 1/2"             | 0.500"          | 12.70  | EXT. FTE. | 93.45       | 139.15 |

| Diámetro | Diám. Ext. |       | Espesor de pared |        |       | Cédula    | Peso aprox. |        |
|----------|------------|-------|------------------|--------|-------|-----------|-------------|--------|
| Nominal  | Pulg.      | mm    | Pulg.            | Pulg.  | mm    |           | Lb/pie      | kg/m   |
| 20"      | 20"        | 508.0 | 1/4"             | 0.250" | 6.35  | 10        | 52.73       | 79.16  |
|          |            |       | 5/16"            | 0.312" | 7.90  | 20        | 65.60       | 97.43  |
|          |            |       | 3/8"             | 0.375" | 9.50  | 20        | 78.60       | 116.78 |
|          |            |       | 1/2"             | 0.500" | 12.70 | 30        | 104.13      | 155.12 |
| 24"      | 24"        | 609.6 | 1/4"             | 0.250" | 6.35  | 10        | 63.41       | 95.26  |
|          |            |       | 3/8"             | 0.375" | 9.50  | 20        | 94.62       | 140.68 |
|          |            |       | 1/2"             | 0.500" | 12.70 | EXT. FTE. | 125.49      | 187.06 |
| 30"      | 30"        | 762.0 | 1/4"             | 0.250" | 6.35  | 5         | 79.43       | 119.25 |
|          |            |       | 3/8"             | 0.375" | 9.50  | CED. STD. | 118.65      | 176.29 |
|          |            |       | 1/2"             | 0.500" | 12.70 | EXT. FTE. | 157.53      | 234.67 |
| 32"      | 32"        | 812.8 | 1/4"             | 0.250" | 6.35  | 5         | 84.77       | 127.30 |
|          |            |       | 3/8"             | 0.375" | 9.50  | CED. STD. | 126.66      | 188.24 |
|          |            |       | 1/2"             | 0.500" | 12.70 | EXT. FTE. | 168.21      | 250.64 |
| 36"      | 36"        | 914.4 | 5/16"            | 0.312" | 7.90  | 10        | 118.92      | 176.52 |
|          |            |       | 3/8"             | 0.375" | 9.50  | CED. STD. | 142.68      | 211.90 |
|          |            |       | 1/2"             | 0.500" | 12.70 | EXT. FTE. | 189.57      | 282.27 |

## HSS (HOLLOW STRUCTURAL SECTION)

## CUADRADO

Peso aprox. por pieza de 12.20 mts.

| Pulgadas      | 1/8"   | 3/16"  | 1/4"   | 5/16"   | 3/8"    | 1/2"    | 5/8"    | 3/4"    | 7/8"    |
|---------------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 4 x 4         | 117.24 | 171.04 | 221.67 | 269.25  | 313.54  | 392.72  |         |         |         |
| 4 1/2 x 4 1/2 | 132.49 | 194.22 | 252.54 | 307.93  | 359.90  | 454.45  |         |         |         |
| 5 x 5         | 147.99 | 217.28 | 283.65 | 346.36  | 406.14  | 516.18  |         |         |         |
| 5 1/2 x 5 1/2 |        | 240.58 | 314.39 | 385.03  | 452.62  |         |         |         |         |
| 6 x 6         |        | 263.76 | 345.26 | 423.71  | 498.86  | 639.77  | 769.82  |         |         |
| 7 x 7         |        | 310.12 | 406.99 | 500.93  | 591.46  | 763.48  |         |         |         |
| 7 1/2 x 7 1/2 |        | 333.18 | 437.86 | 539.61  | 637.82  | 825.21  |         |         |         |
| 8 x 8         |        | 356.36 | 468.72 | 578.04  | 684.30  | 886.94  | 1078.48 |         |         |
| 9 x 9         |        | 402.72 | 530.70 | 655.38  | 776.90  | 1010.53 |         |         |         |
| 10 x 10       |        | 448.96 | 592.43 | 732.61  | 869.62  | 1133.99 | 1388.36 | 1666.03 |         |
| 12 x 12       |        | 541.80 | 715.90 | 887.06  | 1054.81 | 1381.04 | 1697.02 | 2036.42 |         |
| 14 x 14       |        |        |        | 1041.39 | 1240.25 | 1628.21 | 2035.26 | 2366.80 | 2708.40 |
| 16 x 16       |        |        |        | 1195.60 | 1425.57 | 1875.51 | 2306.00 | 2732.80 | 3147.60 |
| 18 x 18       |        |        |        |         |         | 2123.00 | 2623.00 | 3099.00 | 3574.60 |
| 20 x 20       |        |        |        |         |         | 2367.00 | 2928.00 | 3477.00 | 4013.80 |
| 22 x 22       |        |        |        |         |         |         |         | 3843.00 | 4440.80 |


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## RECTANGULAR

Peso aprox. por pieza de 12.20 mts.

| Pulgadas  | 1/8"   | 3/16"  | 1/4"   | 5/16"   | 3/8"    | 1/2"    | 5/8"    | 3/4"    |
|-----------|--------|--------|--------|---------|---------|---------|---------|---------|
| 5" x 3"   | 117.24 | 171.04 | 221.67 | 269.25  | 313.54  | 392.72  |         |         |
| 6" x 2"   | 117.24 | 171.04 | 221.67 | 269.25  | 313.54  | 392.72  |         |         |
| 5" x 4"   | 132.49 | 194.22 | 252.54 | 307.93  | 359.90  | 454.45  |         |         |
| 6" x 3"   | 132.49 | 194.22 | 252.54 | 307.93  | 359.90  | 454.45  |         |         |
| 7" x 2"   | 132.49 | 194.22 | 252.54 | 307.93  | 359.90  | 454.45  |         |         |
| 6" x 4"   | 147.99 | 217.28 | 283.65 | 346.36  | 406.14  | 516.18  |         |         |
| 7" x 3"   | 147.99 | 217.28 | 283.65 | 346.36  | 406.14  | 516.18  |         |         |
| 8" x 2"   | 147.99 | 217.28 | 283.65 | 346.36  | 406.14  | 516.18  |         |         |
| 6" x 5"   |        | 240.58 | 314.39 | 385.03  | 452.62  | 578.28  |         |         |
| 7" x 4"   |        | 240.58 | 314.39 | 385.03  | 452.62  | 578.28  |         |         |
| 8" x 3"   |        | 240.58 | 314.39 | 385.03  | 452.62  | 578.28  |         |         |
| 7" x 5"   |        | 263.76 | 345.26 | 423.71  | 498.86  | 639.77  |         |         |
| 8" x 4"   |        | 263.76 | 345.26 | 423.71  | 498.86  | 639.77  |         |         |
| 9" x 3"   |        | 263.76 | 345.26 | 423.71  | 498.86  | 639.77  |         |         |
| 10" x 2"  |        | 263.76 | 345.26 | 423.71  | 498.86  | 639.77  |         |         |
| 8" x 6"   |        | 310.12 | 406.99 | 500.93  | 591.46  | 763.48  |         |         |
| 9" x 5"   |        | 310.12 | 406.99 | 500.93  | 591.46  | 763.48  |         |         |
| 10" x 4"  |        | 310.12 | 406.99 | 500.93  | 591.46  | 763.48  |         |         |
| 12" x 2"  |        | 310.12 | 406.99 | 500.93  | 591.46  | 763.48  |         |         |
| 8" x 7"   |        | 333.18 | 437.86 | 539.61  | 637.82  | 825.21  |         |         |
| 9" x 6"   |        | 333.18 | 437.86 | 539.61  | 637.82  | 825.21  |         |         |
| 10" x 5"  |        | 333.18 | 437.86 | 539.61  | 637.82  | 825.21  |         |         |
| 12" x 3"  |        | 333.18 | 437.86 | 539.61  | 637.82  | 825.21  |         |         |
| 9" x 7"   |        | 356.36 | 468.72 | 578.04  | 684.30  | 886.94  |         |         |
| 10" x 6"  |        | 356.36 | 468.72 | 578.04  | 684.30  | 886.94  | 1078.48 |         |
| 12" x 4"  |        | 356.36 | 468.72 | 578.04  | 684.30  | 886.94  |         |         |
| 10" x 8"  |        | 402.72 | 530.70 | 655.38  | 776.90  | 1010.53 | 1233.42 |         |
| 12" x 6"  |        | 402.72 | 530.70 | 655.38  | 776.90  | 1010.53 | 1233.42 |         |
| 14" x 4"  |        | 402.72 | 530.70 | 655.38  | 776.90  | 1010.53 |         |         |
| 12" x 8"  |        | 448.96 | 592.43 | 732.61  | 869.62  | 1133.99 | 1388.36 |         |
| 14" x 6"  |        | 448.96 | 592.43 | 732.61  | 869.62  | 1133.99 | 1388.36 |         |
| 16" x 4"  |        | 448.96 | 592.43 | 732.61  | 869.62  | 1133.99 | 1388.36 |         |
| 12" x 10" |        |        | 658.80 | 806.42  | 960.14  | 1257.82 | 1572.28 |         |
| 18" x 4"  |        |        | 658.80 | 806.42  | 960.14  | 1257.82 |         |         |
| 14" x 10" |        | 541.80 | 715.90 | 887.06  | 1054.81 | 1381.04 | 1697.02 |         |
| 16" x 8"  |        | 541.80 | 715.90 | 887.06  | 1054.81 | 1381.04 | 1697.02 |         |
| 18" x 6"  |        | 541.80 | 715.90 | 887.06  | 1054.81 | 1381.04 | 1697.02 |         |
| 20" x 4"  |        | 541.80 | 715.90 | 887.06  | 1054.81 | 1381.04 | 1697.02 |         |
| 16" x 12" |        |        |        | 1041.39 | 1240.25 | 1628.21 | 2035.26 | 2366.80 |
| 20" x 8"  |        |        |        | 1041.39 | 1240.25 | 1628.21 |         |         |
| 20" x 12" |        |        |        | 1195.60 | 1425.57 | 1875.14 | 2306.00 |         |
| 24" x 12" |        |        |        |         |         | 2123.00 | 2623.00 | 3099.00 |



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| Pulgadas           | mm.   | Peso aprox.<br>kg/m | Pulgadas       | mm.   | Peso aprox.<br>kg/m |
|--------------------|-------|---------------------|----------------|-------|---------------------|
| 1/2                | 12.7  | 0.32                | 2              | 50.8  | 3.80                |
| 5/8                | 15.9  | 0.39                | 2 1/2          | 63.5  | 4.75                |
| 3/4                | 19.1  | 0.48                | 3              | 76.2  | 5.69                |
| 1                  | 25.4  | 0.63                | 3/8 x 4 9.5 x  | 101.6 | 7.59                |
| 1/8 x 1 1/4 3.2 x  | 31.7  | 0.79                | 5              | 127.0 | 9.49                |
| 1 1/2              | 38.1  | 0.95                | 6              | 152.4 | 11.39               |
| 2                  | 50.8  | 1.27                | 8              | 203.2 | 15.40               |
| 2 1/2              | 63.5  | 1.59                | 1              | 25.4  | 2.53                |
| 3                  | 76.2  | 1.90                | 1 1/4          | 31.7  | 3.16                |
| 1/2                | 12.7  | 0.47                | 1 1/2          | 38.1  | 3.80                |
| 5/8                | 15.9  | 0.59                | 2              | 50.8  | 5.06                |
| 3/4                | 19.1  | 0.71                | 2 1/2          | 63.5  | 6.33                |
| 1                  | 25.4  | 0.95                | 1/2 x 3 12.7 x | 76.2  | 7.59                |
| 3/16 x 1 1/4 4.8 x | 31.7  | 1.18                | 4              | 101.6 | 10.13               |
| 1 1/2              | 38.1  | 1.42                | 5              | 127.0 | 12.65               |
| 2                  | 50.8  | 1.90                | 6              | 152.4 | 15.19               |
| 2 1/2              | 63.5  | 2.37                | 8              | 203.2 | 20.58               |
| 3                  | 76.2  | 2.85                | 1 1/2          | 38.1  | 4.74                |
| 1/2                | 12.7  | 0.63                | 2              | 50.8  | 6.33                |
| 3/4                | 19.1  | 0.95                | 2 1/2          | 63.5  | 7.91                |
| 1                  | 25.4  | 1.27                | 5/8 x 3 15.9 x | 76.2  | 9.49                |
| 1 1/4              | 31.7  | 1.52                | 4              | 101.6 | 12.65               |
| 1 1/2              | 38.1  | 1.90                | 5              | 127.0 | 15.82               |
| 1/4 x 2 6.3 x      | 50.8  | 2.53                | 6              | 152.4 | 18.99               |
| 2 1/2              | 63.5  | 3.16                | 8              | 203.2 | 25.33               |
| 3                  | 76.2  | 3.79                | 1 1/2          | 38.1  | 5.70                |
| 4                  | 101.6 | 5.06                | 2              | 50.8  | 7.59                |
| 5                  | 127.0 | 6.33                | 2 1/2          | 63.5  | 9.49                |
| 6                  | 152.4 | 7.59                | 3              | 76.2  | 11.39               |
| 1 1/2              | 38.1  | 2.37                | 3/4 x 4 19.1 x | 101.6 | 15.19               |
| 2                  | 50.8  | 3.16                | 5              | 127.0 | 19.00               |
| 2 1/2              | 63.5  | 3.95                | 6              | 152.4 | 22.79               |
| 5/16 x 3 7.9 x     | 76.2  | 4.75                | 8              | 203.2 | 30.43               |
| 4                  | 101.6 | 6.33                | 10             | 254.0 | 37.98               |
| 5                  | 127.0 | 7.91                | 2              | 50.8  | 10.12               |
| 6                  | 152.4 | 9.49                | 2 1/2          | 63.5  | 12.66               |
| 1                  | 25.4  | 1.89                | 3              | 76.2  | 15.19               |
| 3/8 x 1 1/4 9.5 x  | 31.7  | 2.37                | 4 25.4 x       | 101.6 | 20.25               |
| 1 1/2              | 38.1  | 2.85                | 5              | 127.0 | 25.32               |
|                    |       |                     | 6              | 152.4 | 30.38               |
|                    |       |                     | 8              | 203.2 | 40.51               |
|                    |       |                     | 10             | 254.0 | 50.64               |

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LIGERA

| SECCIÓN<br>Z  | ESPESOR "T" |      | ALTURA "H" |     | ANCHO<br>NOMINAL "W" |     | ÁREA DE LA<br>SECCIÓN |      | PESO APROX. |        | PESO APROX. |        | MOMENTO<br>DE INERCIA |        | RADIO DE<br>GIRO |      | MÓDULO DE<br>SECCIÓN |      |        |        |         |         |
|---------------|-------------|------|------------|-----|----------------------|-----|-----------------------|------|-------------|--------|-------------|--------|-----------------------|--------|------------------|------|----------------------|------|--------|--------|---------|---------|
|               | In          | mm   | In         | mm  | In                   | mm  | In2                   | Cm2  | Lbs/Ft      | Lineal | Kg/Mt       | Lineal | Lbs/Ft2               | Kg/Mt2 | In4/Ft           | Cm4  | In                   | mm   | In3/Ft | Cm3/Mt | (PARED) | (PARED) |
| <b>Z 55</b>   | 0.217       | 5.50 | 8.64       | 219 | 24.00                | 610 | 7.57                  | 48.8 | 25.8        | 38.4   | 12.9        | 63     | 49.7                  | 6790   | 3.61             | 91.7 | 11.4                 | 613  |        |        |         |         |
| <b>Z 60</b>   | 0.236       | 6.00 | 8.66       | 220 | 24.00                | 610 | 8.26                  | 53.3 | 28.2        | 42.0   | 14.1        | 68.8   | 54.2                  | 7400   | 3.62             | 91.9 | 12.4                 | 667  |        |        |         |         |
| <b>Z 65</b>   | 0.256       | 6.50 | 8.68       | 220 | 24.00                | 610 | 8.95                  | 57.7 | 30.6        | 45.5   | 15.3        | 74.7   | 58.7                  | 8010   | 3.62             | 91.9 | 13.4                 | 720  |        |        |         |         |
| <b>Z 70</b>   | 0.276       | 7.00 | 8.70       | 221 | 24.00                | 610 | <b>9.64</b>           | 62.2 | 33.0        | 49.1   | 16.5        | 80.6   | 63.2                  | 8630   | 3.62             | 91.9 | 14.4                 | 774  |        |        |         |         |
| <b>Z 75</b>   | 0.295       | 7.50 | 8.72       | 221 | 24.00                | 610 | 10.3                  | 66.5 | 35.2        | 52.4   | 17.6        | 85.9   | 67.7                  | 9250   | 3.63             | 92.2 | 15.6                 | 839  |        |        |         |         |
| SECCIÓN<br>EZ |             |      |            |     |                      |     |                       |      |             |        |             |        |                       |        |                  |      |                      |      |        |        |         |         |
| <b>EZ 80</b>  | 0.315       | 8.00 | 10.75      | 273 | 25.00                | 635 | 12.1                  | 77.9 | 41.1        | 61.2   | 19.8        | 96.4   | 110                   | 15000  | 4.35             | 110  | 20.5                 | 1100 |        |        |         |         |
| <b>EZ 88</b>  | 0.344       | 8.75 | 10.78      | 274 | 25.00                | 635 | 13.2                  | 85.1 | 44.9        | 66.8   | 21.6        | 105    | 121                   | 16500  | 4.36             | 111  | 22.4                 | 1200 |        |        |         |         |
| <b>EZ 95</b>  | 0.375       | 9.50 | 10.81      | 275 | 25.00                | 635 | 14.4                  | 92.7 | 48.9        | 72.8   | 23.5        | 115    | 131                   | 17900  | 4.36             | 111  | 24.4                 | 1310 |        |        |         |         |

CALIDADES:    ASTM A 572 Gr. 42 o 50    ■    ASTM A 328    ■    CSA G 40.21 Gr. 300 W o 350w

## MEDIANA

| SECCIÓN      | ESPESOR "T" | ALTURA "H" | ANCHO NOMINAL "W" |     | ÁREA DE LA SECCIÓN |     | PESO APROX.   |              | PESO APROX. |        | MOMENTO DE INERCIA |             | RADIO DE GIRO |        | MÓDULO DE SECCIÓN |                |      |      |
|--------------|-------------|------------|-------------------|-----|--------------------|-----|---------------|--------------|-------------|--------|--------------------|-------------|---------------|--------|-------------------|----------------|------|------|
|              | In          | mm         | In                | mm  | In2                | Cm2 | Lbs/Ft Lineal | Kg/Mt Lineal | Lbs/Ft2     | Kg/Mt2 | In4/Ft (PARED)     | Cm4 (PARED) | In            | mm     | In3/Ft (PARED)    | Cm3/Mt (PARED) |      |      |
| <b>XZ85</b>  | 0.335       | 8.50       | 14.06             | 357 | 25.00              | 635 | 13.6          | 87.9         | 46.4        | 69.0   | 22.3               | 109.0       | 212           | 29,000 | 5.70              | 145            | 30.2 | 1630 |
| <b>XZ90</b>  | 0.354       | 9.00       | 14.09             | 358 | 25.00              | 635 | 14.4          | 93.0         | 48.9        | 72.7   | 23.5               | 115.0       | 225           | 30,800 | 5.70              | 145            | 31.8 | 1710 |
| <b>XZ95</b>  | 0.375       | 9.50       | 14.12             | 359 | 25.00              | 635 | 15.2          | 98.2         | 51.7        | 76.9   | 24.8               | 121.0       | 237           | 32,400 | 5.70              | 145            | 33.5 | 1800 |
| <b>XZ100</b> | 0.394       | 10.00      | 14.15             | 360 | 25.00              | 635 | 15.9          | 103.0        | 54.2        | 80.7   | 26.0               | 127.0       | 250           | 34,200 | 5.71              | 147            | 35.3 | 1900 |

## PESADA

| SECCIÓN | ESPESOR "T" | ALTURA "H" | ANCHO NOMINAL "W" |     | ÁREA DE LA SECCIÓN | PESO APROX. | PESO APROX.   |              | MOMENTO DE INERCIA |              | RADIO DE GIRO  |             | MÓDULO DE SECCIÓN |                |                |                |      |
|---------|-------------|------------|-------------------|-----|--------------------|-------------|---------------|--------------|--------------------|--------------|----------------|-------------|-------------------|----------------|----------------|----------------|------|
|         |             |            | In                | mm  |                    |             | In2           | Cm2          | Lbs/Ft Lineal      | Kg/Mt Lineal | Lbs/Ft2        | Kg/Mt2      |                   | In4/Ft (PARED) | Cm4 (PARED)    | In             | mm   |
| JZ112   | In          | mm         | In                | mm  | In2                | Cm2         | Lbs/Ft Lineal | Kg/Mt Lineal | Lbs/Ft2            | Kg/Mt2       | In4/Ft (PARED) | Cm4 (PARED) | In                | mm             | In3/Ft (PARED) | Cm3/Mt (PARED) |      |
|         | 0.441       | 11.20      | 16.44             | 418 | 26.50              | 673         | 20.1          | 129.7        | 68.2               | 101.0        | 30.9           | 151.0       | 374.0             | 51,100.0       | 6.41           | 163            | 45.3 |
| JZ120   | In          | mm         | In                | mm  | In2                | Cm2         | Lbs/Ft Lineal | Kg/Mt Lineal | Lbs/Ft2            | Kg/Mt2       | In4/Ft (PARED) | Cm4 (PARED) | In                | mm             | In3/Ft (PARED) | Cm3/Mt (PARED) |      |
|         | 0.472       | 12.00      | 16.47             | 418 | 26.50              | 673         | 21.5          | 138.7        | 73.0               | 109.0        | 33.0           | 161.0       | 401.0             | 54,700.0       | 6.41           | 163            | 48.5 |
| JZ127   | In          | mm         | In                | mm  | In2                | Cm2         | Lbs/Ft Lineal | Kg/Mt Lineal | Lbs/Ft2            | Kg/Mt2       | In4/Ft (PARED) | Cm4 (PARED) | In                | mm             | In3/Ft (PARED) | Cm3/Mt (PARED) |      |
|         | 0.500       | 12.70      | 16.50             | 419 | 26.50              | 673         | 22.7          | 146.5        | 77.3               | 115.0        | 35.0           | 171.0       | 424.0             | 57,900.0       | 6.42           | 165            | 51.4 |

CALIDADES: ASTM A 572 Gr. 42 o 50 ■ ASTM A 328 ■ CSA G 40.21 Gr 300 W o 350w

# **38 TOLERANCIA EN ESPESOR ASTM A-6, A-20, A-635, A-568 ACERO AL CARBÓN R.C., DECAPADO, R.F.**

| Tolerancia y espesor por calibre |         |        |                      |              | Tolerancia y peso por calibre |         |        |            |                         |
|----------------------------------|---------|--------|----------------------|--------------|-------------------------------|---------|--------|------------|-------------------------|
| Cal.                             | Espesor |        | Tolerancia           |              | Cal.                          | Espesor |        | Tolerancia |                         |
|                                  | mm      | pulg.  | R.C.D.<br>R.C.S.D.   | 36" 48" R.F. |                               | mm      | pulg.  | Placa      | R.C.D.<br>R.F. R.C.S.D. |
| 3                                | 6.07    | 0.2391 | 0.2471               |              |                               |         |        |            | 0.0342                  |
|                                  |         |        | 0.2311               |              | 1/32                          | 0.79    | 0.0312 |            | 0.0282                  |
|                                  |         |        | 0.2322 0.2332        |              |                               |         |        |            | 0.0329                  |
| 4                                | 5.69    | 0.2242 | 0.2162 0.2152        |              | 22                            | 0.76    | 0.0299 |            | 0.0269                  |
|                                  |         |        | 0.2172 0.2182        |              |                               |         |        |            | 0.0299                  |
| 5                                | 5.31    | 0.2092 | 0.2012 0.2002        |              | 23                            | 0.68    | 0.0269 |            | 0.0239                  |
|                                  |         |        | 0.2023 0.2033        |              |                               |         |        |            | 0.0269                  |
| 6                                | 4.95    | 0.1943 | 0.1863 0.1853        |              | 24                            | 0.61    | 0.0239 |            | 0.0209                  |
|                                  |         |        | 0.1955 0.1965        |              |                               |         |        |            | 0.0239                  |
| 3/16                             | 4.76    | 0.1875 | 0.1795 0.1785        |              | 25                            | 0.53    | 0.0209 |            | 0.0179                  |
|                                  |         |        | 0.1863 0.1873        |              |                               |         |        |            | 0.0199                  |
| 7                                | 4.55    | 0.1793 | 0.1723 0.1713        |              | 26                            | 0.45    | 0.0179 |            | 0.0159                  |
|                                  |         |        | 0.1714 0.1724        |              |                               |         |        |            | 0.0184                  |
| 8                                | 4.18    | 0.1644 | 0.1574 0.1564        |              | 27                            | 0.42    | 0.0164 |            | 0.0144                  |
|                                  |         |        | 0.1565 0.1575        |              |                               |         |        |            | 0.0169                  |
| 9                                | 3.80    | 0.1495 | 0.1425 0.1415        |              | 28                            | 0.38    | 0.0149 |            | 0.0129                  |
|                                  |         |        | 0.1415 0.1425 0.1405 |              | 29                            | 0.34    | 0.0135 |            |                         |
| 10                               | 3.42    | 0.1345 | 0.1275 0.1265 0.1285 |              | 30                            | 0.3     | 0.0120 |            |                         |
|                                  |         |        | 0.1320 0.1330 0.131  |              |                               |         |        | 0.2800     | 0.2620                  |
| 1/8                              | 3.17    | 0.1250 | 0.1180 0.1170 0.119  |              | 1/4                           | 6.35    | 0.2500 | 0.2400     | 0.2380                  |
|                                  |         |        | 0.1266 0.1276 0.1256 |              |                               |         |        | 0.3420     | 0.3245                  |
| 11                               | 3.04    | 0.1196 | 0.1126 0.1116 0.1136 |              | 5/16                          | 7.93    | 0.3125 | 0.3020     | 0.3005                  |
|                                  |         |        | 0.1116 0.1126 0.1106 |              |                               |         |        | 0.4050     | 0.3880                  |
| 12                               | 2.66    | 0.1046 | 0.0976 0.0966 0.0986 |              | 3/8                           | 9.52    | 0.3750 | 0.3650     | 0.3620                  |
|                                  |         |        | 0.0967 0.0947        |              |                               |         |        | 0.4670     | 0.4515                  |
| 13                               | 2.28    | 0.0897 | 0.0827 0.0847        |              | 7/16                          | 11.11   | 0.4375 | 0.4270     | 0.4235                  |
|                                  |         |        | 0.0817 0.0797        |              |                               |         |        | 0.5300     | 0.5140                  |
| 14                               | 1.9     | 0.0747 | 0.0677 0.0697        |              | 1/2                           | 12.7    | 0.5000 | 0.4900     | 0.4860                  |
|                                  |         |        | 0.0733 0.0723        |              |                               |         |        | 0.5920     | 0.5775                  |
| 15                               | 1.71    | 0.0673 | 0.0613 0.0623        |              | 9/16                          | 14.28   | 0.5625 | 0.5220     | 0.5475                  |
|                                  |         |        | 0.0745 0.0675        |              |                               |         |        | 0.6550     | 0.6400                  |
| 1/16                             | 1.58    | 0.0625 | 0.0505 0.0575        |              | 5/8                           | 15.87   | 0.6250 | 0.6150     | 0.6100                  |
|                                  |         |        | 0.0658 0.0648        |              |                               |         |        | 0.7170     | 0.7035                  |
| 16                               | 1.52    | 0.0598 | 0.0538 0.0548        |              | 11/16                         | 17.46   | 0.6875 | 0.6770     | 0.6715                  |
|                                  |         |        | 0.0588 0.0578        |              |                               |         |        | 0.7800     | 0.7660                  |
| 17                               | 1.37    | 0.0538 | 0.0488 0.0498        |              | 3/4                           | 19.05   | 0.7500 | 0.7400     | 0.7340                  |
|                                  |         |        | 0.0528 0.0518        |              |                               |         |        | 0.8420     | 0.8285                  |
| 18                               | 1.21    | 0.0478 | 0.0428 0.0438        |              | 13/16                         | 20.63   | 0.8125 | 0.8020     | 0.7965                  |
|                                  |         |        | 0.0458 0.0458        |              |                               |         |        | 0.9050     | 0.8910                  |
| 19                               | 1.06    | 0.0418 | 0.0378 0.0389        |              | 7/8                           | 22.22   | 0.8750 | 0.8650     | 0.8590                  |
|                                  |         |        | 0.0329 0.0359        |              |                               |         |        | 0.9670     | 0.9535                  |
| 20                               | 0.91    | 0.0359 | 0.0329 0.0359        |              | 15/16                         | 23.81   | .9375  | 0.9270     | 0.9215                  |
|                                  |         |        | 0.0299 0.0299        |              |                               |         |        | 1.0600     | 1.0160                  |
| 21                               | 0.84    | 0.0329 |                      |              | 1                             | 25.40   | 1.000  | 0.9900     | 0.9840                  |

Consulte con nosotros antes de comprar

Kilogramos por metro: multiplicar por 0.671957 = Libras por pie

---

Libras por pie: multiplicar por 1.48818 = kilogramos por metro

---

1 Kilogramo = 2.2046 libras

---

1 Libra = 0.453592 kilogramos

---

1 Pulgada = 25.4 Milímetros

---

1 Pie = 12 pulgadas = 304.8 milímetros

---

1 Yarda = 3 pies = 914.4 milímetros

---

1 Metro = 3.2808 pies = 1.0936 yardas

---

Placa 5 x 20: 72.77 x espesor (mm) = kg/placa

---

Placa 6 x 20: 87.66 x espesor (mm) = kg/placa

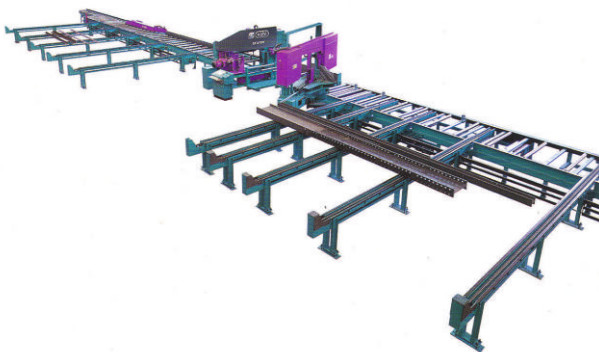
---

Placa 8 x 20: 116.82 x espesor (mm) = kg/placa

---

Todos los pesos en este catálogo son teóricos, basados en las especificaciones del fabricante, estos pueden tener una variación .

## **CENTRO DE CORTE Y PERFORADO**



## **¿QUE OFRECEMOS? NUESTRA PRIORIDAD EL CLIENTE**

Para Ferre Barniedo, líder en comercialización y distribución de aceros, es un orgullo poder dar a nuestros clientes un valor agregado, ofreciéndoles un CENTRO DE CORTE Y PERFORADO DE PERFILES ESTRUCTURALES con la mas alta tecnología, que nos permite satisfacer las necesidades y especificaciones mas exigentes.

Logramos de esta forma dar una SOLUCION INTEGRAL A PROYECTOS ESTRUCTURALES y así posicionarnos como una empresa de vanguardia.

La programación adecuada de CORTES Y PERFORADOS, nos permite dar respuestas a tiempo a todas las necesidades de los clientes, ofreciendo perfiles estructurales listos para montar, con la mas alta calidad y acabados de primer nivel.

## **CARACTERISTICAS TÉCNICAS DE CORTE**

Máximo ángulo de rotación +45° (cuadrante IV)  
 Mínimo ángulo de rotación -60° (cuadrante III)  
 Corte recto 90° 1200 x 450 mm (ancho por alto)  
 Corte en ángulo 45° 870 x 450 mm (ancho por alto)  
 Corte en ángulo -45° 820 x 450 mm (ancho por alto)  
 Corte en ángulo -60° 600 x 450 mm (ancho por alto)  
 Máximo largo de perfiles, 19812 mm (65 ft)

## **CARACTERISTICAS TÉCNICAS DE PERFORADO**

|                            |                      |
|----------------------------|----------------------|
| Altura máxima de trabajo   | 450 mm               |
| Altura mínima de trabajo   | 5 mm                 |
| Anchura máxima de trabajo  | 1200 mm              |
| Anchura mínima de trabajo  | 50 mm                |
| Diámetro máximo de barreno | 49 mm                |
| Diámetro mínimo de barreno | 8 mm                 |
| Orientación                | 0°, 90°, 180° y 270° |

**MATRIZ**

Av. Plateros # 137 Col. Peñuelas,  
Querétaro, Gro. C.P. 76148  
Tel (442) 2208182 / 2-46-24-02 / 2-46-10-21

**LOMA BONITA**

Calle 5 # 316-B col. Morelos,  
Querétaro, Gro. C.P. 76118  
Tel (442) 2406426