



**REGIO ACERO**  
Materiales Estructurales y Perfiles

## **CATÁLOGO DE PRODUCTOS**

Medidas, calibres y pesos teóricos

## Introducción



### Misión:

Ofrecer gran variedad y existencia a nuestros clientes en el requerimiento de productos de acero, buscando siempre cumplir con sus necesidades.

### Visión:

Ser una empresa líder en la distribución de productos de acero, brindando soluciones integrales a nuestros clientes.

### Valores:

El cliente es primero  
Compromiso  
Puntualidad  
Respeto

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# PLANOS

# Placa

| ESPESOR  |            | PESO     |          |           |          |         |
|----------|------------|----------|----------|-----------|----------|---------|
|          |            | KG/HOJA  |          |           | KG/M²    | KG/PIE² |
| PULGADAS | MILÍMETROS | 3' x 10' | 4' x 10' | 6' x 20'  |          |         |
| 3/16"    | 4.8        | 105.30   | 140.40   | 421.19    | 37.78    | 3.51    |
| 1/4"     | 6.3        | 140.41   | 187.22   | 561.65    | 50.38    | 4.68    |
| 5/16"    | 7.9        | 175.50   | 234.00   | 702.01    | 62.97    | 5.85    |
| 3/8"     | 9.5        | 210.59   | 280.79   | 842.37    | 75.56    | 7.02    |
| 7/16"    | 11.1       | 245.40   | 327.20   | 981.61    | 88.05    | 8.28    |
| 1/2"     | 12.7       | 280.80   | 374.40   | 1,123.20  | 100.75   | 9.36    |
| 9/16"    | 14.3       | 315.61   | 420.81   | 1,262.44  | 113.24   | 10.52   |
| 5/8"     | 15.9       | 351.01   | 468.01   | 1,404.03  | 125.94   | 11.70   |
| 3/4'     | 19.0       | 421.19   | 561.58   | 1,684.74  | 151.12   | 14.04   |
| 7/8"     | 22.2       | 491.39   | 655.19   | 1,965.57  | 176.31   | 16.38   |
| 1"       | 25.4       | 561.60   | 748.80   | 2,246.40  | 201.50   | 18.72   |
| 1 1/8"   | 28.6       | 631.81   | 842.41   | 2,527.22  | 226.69   | 21.06   |
| 1 1/4"   | 31.7       | 702.01   | 936.02   | 2,808.05  | 251.88   | 23.40   |
| 1 3/8"   | 34.9       | 772.19   | 1,029.59 | 3,088.77  | 277.06   | 25.74   |
| 1 1/2"   | 38.1       | 842.40   | 1,123.20 | 3,369.59  | 302.25   | 28.08   |
| 1 5/8"   | 41.3       | 912.61   | 1,216.81 | 3,650.42  | 327.44   | 30.42   |
| 1 3/4"   | 44.4       | 982.78   | 1,310.38 | 3,931.14  | 352.62   | 32.76   |
| 2"       | 50.8       | 1,123.00 | 1,497.60 | 4,492.79  | 403.00   | 37.44   |
| 2 1/4"   | 57.1       | 1,263.61 | 1,684.82 | 5,054.45  | 453.38   | 42.12   |
| 2 1/2"   | 63.5       | 1,404.00 | 1,872.00 | 5,615.99  | 503.75   | 46.80   |
| 2 3/4'   | 69.8       | 1,544.38 | 2,059.18 | 6,177.53  | 554.12   | 51.48   |
| 3"       | 76.2       | 1,684.80 | 2,246.40 | 6,739.19  | 604.50   | 56.16   |
| 3 1/2"   | 88.9       | 1,965.60 | 2,620.79 | 7,862.38  | 705.25   | 65.52   |
| 4"       | 101.6      | 2,246.40 | 2,995.19 | 8,985.58  | 806.00   | 74.88   |
| 4 1/2"   | 114.3      | 2,527.19 | 3,369.59 | 10,108.78 | 906.75   | 84.24   |
| 5"       | 127.0      | 2,807.99 | 3,743.99 | 11,231.98 | 1,007.50 | 93.60   |
| 5 1/2"   | 139.7      | 3,088.79 | 4,118.39 | 12,355.18 | 1,108.25 | 102.96  |

\*Placas disponibles en grado A-36, disponibles sobre pedido en grados A-283°C, A-285°C, A-516°70, A-572°50, A-709°50, A-572°65, SAE 1045

## Lámina Caliente

| CALIBRE | ESPESOR  |            | PESO     |          |                   |                     |
|---------|----------|------------|----------|----------|-------------------|---------------------|
|         | PULGADAS | MILÍMETROS | KG/HOJA  |          | KG/M <sup>2</sup> | KG/PIE <sup>2</sup> |
|         |          |            | 3' x 10' | 4' x 10' |                   |                     |
| 7       | 0.180    | 4.572      | 101.09   | 134.78   | 36.27             | 3.37                |
| 8       | 0.165    | 4.191      | 92.67    | 123.56   | 33.25             | 3.10                |
| 9       | 0.150    | 3.810      | 84.25    | 112.34   | 30.23             | 2.80                |
| 10      | 0.135    | 3.429      | 75.81    | 101.08   | 27.20             | 2.53                |
| 11      | 0.120    | 3.048      | 67.39    | 89.86    | 24.18             | 2.25                |
| 12      | 0.105    | 2.667      | 58.97    | 78.63    | 21.16             | 1.97                |
| 13      | 0.090    | 2.286      | 50.56    | 67.41    | 18.14             | 1.70                |
| 14      | 0.075    | 1.905      | 42.11    | 56.15    | 15.11             | 1.40                |

## Lámina en Frío

| CALIBRE | ESPESORP |            | ESO      |          |                   |                     |
|---------|----------|------------|----------|----------|-------------------|---------------------|
|         | PULGADAS | MILÍMETROS | KG/HOJA  |          | KG/M <sup>2</sup> | KG/PIE <sup>2</sup> |
|         |          |            | 3' x 10' | 4' x 10' |                   |                     |
| 16      | 0.060    | 1.524      | 33.70    | 44.93    | 12.09             | 1.13                |
| 18      | 0.048    | 1.219      | 26.95    | 35.93    | 9.67              | 0.90                |
| 20      | 0.036    | 0.914      | 20.21    | 26.94    | 7.25              | 0.68                |
| 22      | 0.030    | 0.762      | 16.86    | 22.48    | 6.05              | 0.57                |
| 24      | 0.024    | 0.31       | 13.44    | 18.01    | 4.84              | 0.45                |

## Lámina Galvanizada Lisa

| CALIBRE | ESPESOR  |            | PESO     |          |                   |                     |
|---------|----------|------------|----------|----------|-------------------|---------------------|
|         | PULGADAS | MILÍMETROS | KG/HOJA  |          | KG/M <sup>2</sup> | KG/PIE <sup>2</sup> |
|         |          |            | 3' x 10' | 4' x 10' |                   |                     |
| 14      | 0.076    | 1.935      | 42.00    | 56.00    | 15.07             | 1.40                |
| 16      | 0.061    | 1.557      | 34.00    | 45.34    | 12.20             | 1.13                |
| 18      | 0.049    | 1.252      | 27.01    | 36.01    | 9.69              | 0.90                |
| 20      | 0.037    | 0.950      | 20.99    | 27.98    | 7.53              | 0.70                |
| 22      | 0.031    | 0.798      | 17.25    | 23.00    | 6.19              | 0.57                |
| 24      | 0.022    | 0.569      | 12.74    | 16.98    | 4.57              | 0.42                |
| 26      | 0.019    | 0.493      | 11.01    | 14.68    | 3.95              | 0.36                |

## Lámina Antiderrapante

| CALIBRE | ESPESOR  |            | PESO     |          |       |         |
|---------|----------|------------|----------|----------|-------|---------|
|         | PULGADAS | MILÍMETROS | KG/HOJA  |          | KG/M² | KG/PIE² |
|         |          |            | 3' x 10' | 4' x 10' |       |         |
| 3/8"    | 0.375    | 9.525      | 222.47   | 296.62   | 79.82 | 7.42    |
| 1/4"    | 0.250    | 6.350      | 153.18   | 204.24   | 54.96 | 5.11    |
| 3/16"   | 0.188    | 4.775      | 118.51   | 157.01   | 42.52 | 3.95    |
| 10      | 0.135    | 3.429      | 92.64    | 123.52   | 33.24 | 3.09    |
| 1/8"    | 0.125    | 3.175      | 83.81    | 111.74   | 30.07 | 2.79    |
| 11      | 0.120    | 3.048      | 81.05    | 108.06   | 29.08 | 2.70    |
| 12      | 0.105    | 2.667      | 71.43    | 95.24    | 25.63 | 2.38    |
| 13      | 0.090    | 2.286      | 60.81    | 81.09    | 21.82 | 2.03    |
| 14      | 0.075    | 1.905      | 51.03    | 68.04    | 18.31 | 1.70    |
| 16      | 0.060    | 1.524      | 40.83    | 54.44    | 14.65 | 1.36    |

## Tablero Pintado

| CALIBRE | ESPESOR  |            | PESO    |         |         |          |
|---------|----------|------------|---------|---------|---------|----------|
|         | PULGADAS | MILÍMETROS | KG/HOJA |         |         |          |
|         |          |            | 3' x 3' | 3' x 6' | 3' x 8' | 3' x 10' |
| 20      | 0.037    | 0.950      | 6.30    | 12.59   | 16.79   | 20.99    |

## Tablero Leo

| CALIBRE | ESPESOR  |            | PESO    |         |         |          |
|---------|----------|------------|---------|---------|---------|----------|
|         | PULGADAS | MILÍMETROS | KG/HOJA |         |         |          |
|         |          |            | 3' x 3' | 3' x 6' | 3' x 8' | 3' x 10' |
| 22      | 0.031    | 0.798      | 5.18    | 10.35   | 13.80   | 17.25    |



# ACANALADOS

## Lámina R-101

| PERFIL | PESO  |       |
|--------|-------|-------|
|        | KG/M² | KG/ML |
| 28     | 3.92  | 3.96  |
| 26     | 4.64  | 4.69  |
| 24     | 5.36  | 5.42  |



## Lámina R-100/35

| PERFIL | PESO  |       |
|--------|-------|-------|
|        | KG/M² | KG/ML |
| 26     | 4.68  | 4.69  |
| 24     | 5.41  | 5.42  |
| 22     | 7.60  | 7.60  |



\*La lámina acanalada rn-100/35 se utiliza en naves industriales, bodegas y construcciones en general en donde se requiera resistencia estructural y/o trabajar con pendientes bajas. fachadas industriales horizontales y verticales. disponible en recubrimientos zintro alum y pinto en largos desde 10 a 24 pies.

## O-100

| PERFIL | PESO  |       |
|--------|-------|-------|
|        | KG/M² | KG/ML |
| 28     | 3.96  | 3.83  |
| 26     | 4.59  | 4.54  |
| 24     | 5.42  | 5.25  |



## Losacero

| Calibre | Peso  |
|---------|-------|
|         | Kg/M² |
| 24      | 5.70  |
| 22      | 8.00  |
| 20      | 9.54  |



\*La lámina losacero se utiliza en la construcción de losas compuestas.

## Aceroteja

| CALIBRE | PESO  |
|---------|-------|
|         | KG/ML |
| 26      | 4.53  |



\*Es una lámina acanalada fabricada en lámina de acero pre-pintado de apariencia similar a la teja tradicional con la durabilidad del acero recubierto. la aceroteja es excelente para uso comercial y residencial. diseño de teja tipo española. puede ser instalado sobre polines de acero, paneles de madera y sobre losa de concreto.

# Lámina Traslucida

| NORMAS ASTM U. DE M.      |            |       | VALOR      |
|---------------------------|------------|-------|------------|
| PROPIEDADES FÍSICAS       |            |       |            |
| TRANSMISIÓN DE LUZ        | D-1494 %   | B     | LANCO 70   |
| PROPIEDADES MÉCANICAS     |            |       |            |
| RESISTENCIA DE LA FLEXIÓN | D-638      | PSI   | 9437.2     |
| RESISTENCIA DE LA TENSIÓN | D-256      | PSI I | 0.1        |
| PROPIEDADES QUÍMICAS      |            |       |            |
| ÁCIDOS CONCENTRADOS 15%   | ACÉTICO    |       | SIN CAMBIO |
|                           | CLORHÍDICO |       | SIN CAMBIO |
|                           | NÍTRICO    |       | SIN CAMBIO |
| BASES                     | AMONÍACO   |       | SIN CAMBIO |
|                           | SODIO      |       | SIN CAMBIO |
|                           | THINNER    |       | SIN CAMBIO |
| SOLVENTES                 | GASOLINA   |       | SIN CAMBIO |
|                           | ALCOHOL    |       | SIN CAMBIO |

Es un laminado plástico de acrílico-poliéster reforzado con fibra de vidrio, que cumple con la relación 70% de resina y 30% de fibra de vidrio, un material de alta duración y calidad. Por sus propiedades, es posible utilizar la luz natural, ofreciendo 3 veces más iluminación en interiores, crea un ambiente agradable y cómodo al difundir armónicamente la luz gracias a su translucidez. Evita los rayos ultravioleta dando más durabilidad al producto, brindando una iluminación libre de radiación. Las láminas de Acripol son un producto con 0% absorción de agua que no permite el acumulamiento de bacterias u hongos.

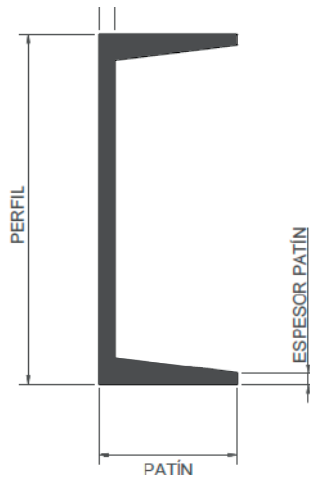


# ESTRUCTURALES

## Canal

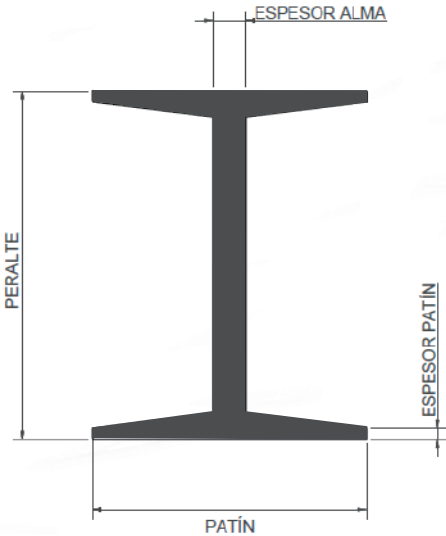
| PERFIL   |            | ESO   |           | ANCHO DEL PATÍN |            | ESPESOR DEL PATÍN |            | ESPESOR DEL ALMA |            |
|----------|------------|-------|-----------|-----------------|------------|-------------------|------------|------------------|------------|
| PULGADAS | MILÍMETROS | KG/M  | LIBRA/PIE | PULGADAS        | MILÍMETROS | PULGADAS          | MILÍMETROS | PULGADAS         | MILÍMETROS |
| 3"       | 76.2       | 5.20  | 3.50      | 1.372           | 35.0       | 0.273             | 6.9        | 0.132            | 3.4        |
|          |            | 6.10  | 4.10      | 1.410           | 36.0       | 0.273             | 6.9        | 0.170            | 4.3        |
| 4"       | 101.6      | 6.70  | 4.50      | 1.584           | 40.0       | 0.296             | 7.5        | 0.125            | 3.2        |
|          |            | 8.04  | 5.40      | 1.584           | 40.0       | 0.296             | 7.5        | 0.184            | 4.7        |
| 5"       | 127.0      | 9.97  | 6.70      | 1.750           | 44.0       | 0.320             | 8.1        | 0.190            | 4.8        |
| 6"       | 152.4      | 12.20 | 8.20      | 1.920           | 48.0       | 0.343             | 8.7        | 0.200            | 5.1        |
|          |            | 15.63 | 10.50     | 2.034           | 51.0       | 0.343             | 8.7        | 0.314            | 8.0        |
|          |            | 19.35 | 13.00     | 2.157           | 55.0       | 0.343             | 8.7        | 0.437            | 11.1       |
| 7"       | 177.8      | 14.60 | 9.80      | 2.090           | 53.0       | 0.366             | 9.3        | 0.210            | 5.3        |
| 8"       | 203.2      | 17.11 | 11.50     | 2.260           | 57.0       | 0.390             | 9.9        | 0.220            | 5.6        |
|          |            | 20.46 | 13.75     | 2.343           | 59.0       | 0.390             | 9.9        | 0.303            | 7.7        |
|          |            | 27.90 | 18.75     | 2.527           | 64.0       | 0.390             | 9.9        | 0.487            | 12.4       |
| 10"      | 254.0      | 22.76 | 15.30     | 2.600           | 65.0       | 0.436             | 11.1       | 0.240            | 6.1        |
|          |            | 29.76 | 20.00     | 2.739           | 69.0       | 0.436             | 11.1       | 0.379            | 9.6        |
|          |            | 37.20 | 25.00     | 2.886           | 73.0       | 0.436             | 11.1       | 0.526            | 13.4       |
|          |            | 44.64 | 30.00     | 3.033           | 76.0       | 0.436             | 11.1       | 0.673            | 17.1       |
| 12"      | 304.8      | 30.80 | 20.70     | 2.942           | 74.0       | 0.501             | 12.7       | 0.282            | 7.2        |
|          |            | 37.20 | 25.00     | 3.047           | 77.0       | 0.501             | 12.7       | 0.387            | 9.8        |
|          |            | 44.64 | 30.00     | 3.170           | 80.0       | 0.501             | 12.7       | 0.510            | 13.0       |
| 15"      | 381.0      | 50.40 | 33.90     | 3.400           | 86.0       | 0.650             | 16.5       | 0.400            | 10.2       |
|          |            | 59.53 | 40.00     | 3.520           | 89.0       | 0.650             | 16.5       | 0.520            | 13.2       |
|          |            | 74.50 | 50.00     | 3.716           | 94.0       | 0.650             | 16.5       | 0.716            | 18.2       |

\*En largos de 6.10 m y 12.20 m



# Viga IPS

| PERALTE  |            | PESO  |           | ANCHO DEL PATÍN |            | ESPESOR DEL ALMA |            |
|----------|------------|-------|-----------|-----------------|------------|------------------|------------|
| PULGADAS | MILÍMETROS | KG/M  | LIBRA/PIE | PULGADAS        | MILÍMETROS | PULGADAS         | MILÍMETROS |
| 3        | 76.2       | 8.84  | 5.70      | 2.33            | 59.0       | 0.17             | 4.0        |
| 4        | 101.6      | 11.46 | 7.70      | 2.66            | 68.0       | 0.19             | 5.0        |
| 5        | 127.0      | 14.88 | 10.00     | 3.00            | 76.0       | 0.21             | 5.0        |
| 6        | 152.4      | 18.60 | 12.50     | 3.33            | 85.0       | 0.23             | 6.0        |
| 8        | 203.2      | 27.38 | 18.40     | 4.00            | 102.0      | 0.27             | 7.0        |



# Viga IPR

| DIMENSIONES   |               | PESO  |           | PERALTE  |            | ANCHO DEL PATÍN |            | ESPESOR DEL PATÍN |            | ESPESOR DEL ALMA |            |
|---------------|---------------|-------|-----------|----------|------------|-----------------|------------|-------------------|------------|------------------|------------|
| PULGADAS      | MILÍMETROS    | KG/M  | LIBRA/PIE | PULGADAS | MILÍMETROS | PULGADAS        | MILÍMETROS | PULGADAS          | MILÍMETROS | PULGADAS         | MILÍMETROS |
| 4" x 4"       | 101.6 x 101.6 | 19.3  | 13.0      | 4.16     | 106        | 4.06            | 103        | 0.35              | 8.9        | 0.28             | 7.1        |
| 5" x 5"       | 127.0 x 127.0 | 23.8  | 16.0      | 5.01     | 127        | 5.00            | 127        | 0.36              | 9.1        | 0.24             | 6.1        |
|               |               | 28.3  | 19.0      | 5.15     | 131        | 5.03            | 128        | 0.43              | 10.9       | 0.27             | 6.9        |
|               |               | 12.7  | 8.5       | 5.83     | 148        | 3.94            | 100        | 0.19              | 4.8        | 0.17             | 4.3        |
| 6" x 4"       | 152.4 x 101.6 | 13.4  | 9.0       | 5.90     | 150        | 3.94            | 100        | 0.22              | 5.6        | 0.17             | 4.3        |
|               |               | 17.9  | 12.0      | 6.03     | 153        | 4.00            | 102        | 0.28              | 7.1        | 0.23             | 5.8        |
|               |               | 23.8  | 16.0      | 6.28     | 160        | 4.03            | 102        | 0.41              | 10.4       | 0.26             | 6.6        |
|               |               | 22.3  | 15.0      | 5.99     | 152        | 5.99            | 152        | 0.26              | 6.6        | 0.23             | 5.8        |
| 6" x 6"       | 152.4 x 152.4 | 29.8  | 20.0      | 6.20     | 157        | 6.02            | 153        | 0.37              | 9.4        | 0.26             | 6.6        |
|               |               | 37.2  | 25.0      | 6.38     | 162        | 6.08            | 154        | 0.46              | 11.7       | 0.32             | 8.1        |
|               |               | 14.9  | 10.0      | 7.89     | 200        | 3.94            | 100        | 0.21              | 5.3        | 0.17             | 4.3        |
| 8" x 4"       | 203.2 x 101.6 | 19.3  | 13.0      | 7.99     | 203        | 4.00            | 102        | 0.26              | 6.6        | 0.23             | 5.8        |
|               |               | 22.3  | 15.0      | 8.11     | 206        | 4.02            | 102        | 0.32              | 8.1        | 0.25             | 6.3        |
| 8" x 5 1/4"   | 203.2 x 133.3 | 26.8  | 18.0      | 8.14     | 207        | 5.25            | 133        | 0.33              | 8.4        | 0.23             | 5.8        |
|               |               | 31.3  | 21.0      | 8.28     | 210        | 5.27            | 134        | 0.40              | 10.2       | 0.25             | 6.3        |
| 8" x 6 1/2"   | 203.2 x 165.1 | 35.7  | 24.0      | 7.93     | 201        | 6.50            | 165        | 0.40              | 10.2       | 0.25             | 6.3        |
|               |               | 41.7  | 28.0      | 8.06     | 205        | 6.54            | 166        | 0.47              | 11.9       | 0.29             | 7.4        |
|               |               | 46.1  | 31.0      | 8.00     | 203        | 8.00            | 203        | 0.44              | 11.2       | 0.29             | 7.4        |
| 8" x 8"       | 203.2 x 203.2 | 52.1  | 35.0      | 8.12     | 206        | 8.02            | 204        | 0.50              | 12.7       | 0.31             | 7.9        |
|               |               | 59.5  | 40.0      | 8.25     | 210        | 8.07            | 205        | 0.56              | 14.2       | 0.36             | 9.1        |
|               |               | 71.4  | 48.0      | 8.50     | 216        | 8.11            | 206        | 0.69              | 17.4       | 0.40             | 10.2       |
|               |               | 17.9  | 12.0      | 9.87     | 251        | 3.96            | 101        | 0.21              | 5.3        | 0.19             | 4.8        |
| 10" x 4"      | 254.0 x 101.6 | 22.3  | 15.0      | 9.99     | 254        | 4.00            | 102        | 0.27              | 6.9        | 0.23             | 5.8        |
|               |               | 25.3  | 17.0      | 10.11    | 257        | 4.01            | 102        | 0.33              | 8.4        | 0.24             | 6.1        |
|               |               | 28.3  | 19.0      | 10.24    | 260        | 4.02            | 102        | 0.40              | 10.2       | 0.25             | 6.3        |
|               |               | 32.7  | 22.0      | 10.17    | 258        | 5.75            | 146        | 0.36              | 9.1        | 0.24             | 6.1        |
| 10" x 5 3/4"  | 254.0 x 146.0 | 38.7  | 26.0      | 10.33    | 262        | 5.77            | 147        | 0.44              | 11.2       | 0.26             | 6.6        |
|               |               | 44.6  | 30.0      | 10.47    | 266        | 5.81            | 148        | 0.51              | 13.0       | 0.30             | 7.6        |
|               |               | 49.1  | 33.0      | 9.73     | 247        | 7.96            | 202        | 0.44              | 11.2       | 0.29             | 7.4        |
| 10" x 8"      | 254.0 x 203.2 | 58.0  | 39.0      | 9.92     | 252        | 7.99            | 203        | 0.53              | 13.5       | 0.32             | 8.1        |
|               |               | 67.0  | 45.0      | 10.10    | 257        | 8.02            | 204        | 0.62              | 15.7       | 0.35             | 8.9        |
|               |               | 72.9  | 49.0      | 9.98     | 253        | 10.00           | 254        | 0.56              | 14.2       | 0.34             | 8.6        |
| 10" x 10"     | 254.0 x 254.0 | 80.4  | 54.0      | 10.09    | 256        | 10.03           | 255        | 0.62              | 15.7       | 0.37             | 9.4        |
|               |               | 89.4  | 60.0      | 10.22    | 260        | 10.08           | 256        | 0.68              | 17.3       | 0.42             | 10.7       |
|               |               | 101.2 | 68.0      | 10.40    | 264        | 10.13           | 257        | 0.77              | 19.6       | 0.47             | 11.9       |
|               |               | 20.8  | 14.0      | 11.91    | 303        | 3.97            | 101        | 0.23              | 5.8        | 0.20             | 5.1        |
| 12" x 4"      | 304.8 x 101.6 | 23.8  | 16.0      | 11.99    | 305        | 3.99            | 101        | 0.27              | 6.9        | 0.22             | 5.6        |
|               |               | 28.3  | 19.0      | 12.16    | 309        | 4.01            | 102        | 0.35              | 8.9        | 0.24             | 6.1        |
|               |               | 32.7  | 22.0      | 12.31    | 313        | 4.03            | 102        | 0.43              | 10.9       | 0.26             | 6.6        |
|               |               | 38.7  | 26.0      | 12.22    | 310        | 6.49            | 165        | 0.38              | 9.7        | 0.23             | 5.8        |
| 12" x 6 1/2"  | 304.8 x 165.1 | 44.6  | 30.0      | 12.34    | 313        | 6.52            | 166        | 0.44              | 11.2       | 0.26             | 6.6        |
|               |               | 52.1  | 35.0      | 12.50    | 317        | 6.56            | 167        | 0.52              | 13.2       | 0.30             | 7.6        |
|               |               | 59.5  | 40.0      | 11.94    | 303        | 8.01            | 203        | 0.52              | 13.2       | 0.30             | 7.6        |
| 12" x 8"      | 304.8 x 203.2 | 67.0  | 45.0      | 12.06    | 306        | 8.05            | 204        | 0.58              | 14.7       | 0.34             | 8.6        |
|               |               | 74.4  | 50.0      | 12.19    | 310        | 8.08            | 205        | 0.64              | 16.3       | 0.37             | 9.4        |
|               |               | 78.9  | 53.0      | 12.06    | 306        | 10.00           | 254        | 0.58              | 14.7       | 0.35             | 8.9        |
| 12" x 10"     | 304.8 x 254.0 | 86.3  | 58.0      | 12.19    | 310        | 10.01           | 254        | 0.64              | 16.3       | 0.36             | 9.1        |
|               |               | 96.7  | 65.0      | 12.12    | 308        | 12.00           | 305        | 0.61              | 15.5       | 0.39             | 9.9        |
|               |               | 107.1 | 72.0      | 12.25    | 311        | 12.04           | 306        | 0.67              | 17.0       | 0.43             | 10.9       |
| 12" x 12"     | 304.8 x 304.8 | 117.6 | 79.0      | 12.38    | 314        | 12.08           | 307        | 0.74              | 18.8       | 0.47             | 11.9       |
|               |               | 129.6 | 87.0      | 12.53    | 318        | 12.13           | 308        | 0.81              | 20.6       | 0.52             | 13.1       |
|               |               | 142.9 | 96.0      | 12.71    | 323        | 12.16           | 309        | 0.90              | 22.9       | 0.55             | 14.0       |
|               |               | 157.9 | 106.0     | 12.89    | 327        | 12.22           | 310        | 0.99              | 25.1       | 0.61             | 15.5       |
| 14" x 5"      | 355.6 x 127.0 | 32.7  | 22.0      | 13.74    | 349        | 5.00            | 127        | 0.34              | 8.6        | 0.23             | 5.8        |
|               |               | 38.7  | 26.0      | 13.91    | 353        | 5.03            | 128        | 0.42              | 10.7       | 0.26             | 6.6        |
| 14" x 6 3/4"  | 355.6 x 171.4 | 44.6  | 30.0      | 13.84    | 352        | 6.73            | 171        | 0.39              | 9.9        | 0.27             | 6.9        |
|               |               | 50.6  | 34.0      | 13.98    | 355        | 6.75            | 171        | 0.46              | 11.7       | 0.29             | 7.4        |
|               |               | 56.5  | 38.0      | 14.10    | 358        | 6.77            | 172        | 0.52              | 13.2       | 0.31             | 7.9        |
| 14" x 8"      | 355.6 x 203.2 | 64.0  | 43.0      | 13.66    | 347        | 8.00            | 203        | 0.53              | 13.5       | 0.31             | 7.9        |
|               |               | 71.4  | 48.0      | 13.79    | 350        | 8.03            | 204        | 0.60              | 15.2       | 0.34             | 8.6        |
|               |               | 78.9  | 53.0      | 13.92    | 354        | 8.06            | 205        | 0.66              | 16.8       | 0.37             | 9.4        |
|               |               | 90.8  | 61.0      | 13.89    | 353        | 10.00           | 254        | 0.65              | 16.5       | 0.38             | 9.7        |
| 14" x 10"     | 355.6 x 254.0 | 101.2 | 68.0      | 14.04    | 357        | 10.04           | 255        | 0.72              | 18.3       | 0.42             | 10.7       |
|               |               | 110.1 | 74.0      | 14.17    | 360        | 10.07           | 256        | 0.79              | 20.1       | 0.45             | 11.4       |
|               |               | 122.0 | 82.0      | 14.31    | 363        | 10.13           | 257        | 0.86              | 21.8       | 0.51             | 13.0       |
|               |               | 133.9 | 90.0      | 14.02    | 356        | 14.52           | 369        | 0.71              | 18.0       | 0.44             | 11.2       |
|               |               | 147.3 | 99.0      | 14.16    | 360        | 14.57           | 370        | 0.78              | 19.8       | 0.49             | 12.4       |
| 14" x 14 1/2" | 355.6 x 368.3 | 162.2 | 109.0     | 14.32    | 364        | 14.61           | 371        | 0.86              | 21.8       | 0.53             | 13.5       |
|               |               | 178.6 | 120.0     | 14.48    | 368        | 14.67           | 373        | 0.94              | 23.9       | 0.59             | 15.0       |
|               |               | 196.4 | 132.0     | 14.66    | 372        | 14.73           | 374        | 1.03              | 26.2       | 0.65             | 16.5       |

Estructurales

Viga IPR

| DIMENSIONES   |               | PESO  |           | PERALTE  |            | ANCHO DEL PATÍN |            | ESPESOR DEL PATÍN |            | ESPESOR DEL ALMA |            |
|---------------|---------------|-------|-----------|----------|------------|-----------------|------------|-------------------|------------|------------------|------------|
| PULGADAS      | MILÍMETROS    | KG/M  | LIBRA/PIE | PULGADAS | MILÍMETROS | PULGADAS        | MILÍMETROS | PULGADAS          | MILÍMETROS | PULGADAS         | MILÍMETROS |
| 14" x 16"     | 355.6 x 406.4 | 215.8 | 145.0     | 14.78    | 375        | 15.50           | 394        | 1.09              | 27.7       | 0.68             | 17.3       |
|               |               | 236.6 | 159.0     | 14.98    | 380        | 15.57           | 395        | 1.19              | 30.2       | 0.75             | 19.0       |
|               |               | 261.9 | 176.0     | 15.22    | 387        | 15.65           | 398        | 1.31              | 33.3       | 0.83             | 21.1       |
|               |               | 287.2 | 193.0     | 15.48    | 393        | 15.71           | 399        | 1.44              | 36.6       | 0.89             | 22.6       |
|               |               | 314.0 | 211.0     | 15.72    | 399        | 15.80           | 401        | 1.56              | 39.6       | 0.98             | 24.9       |
| 16" x 5/12"   | 406.4 x 139.7 | 346.7 | 233.0     | 16.04    | 407        | 15.89           | 404        | 1.72              | 43.7       | 1.07             | 27.2       |
|               |               | 38.7  | 26.0      | 15.69    | 399        | 5.50            | 140        | 0.35              | 8.9        | 0.25             | 6.3        |
|               |               | 46.1  | 31.0      | 15.88    | 403        | 5.53            | 140        | 0.44              | 11.2       | 0.28             | 7.1        |
|               |               | 53.6  | 36.0      | 15.86    | 403        | 6.99            | 178        | 0.43              | 10.9       | 0.30             | 7.6        |
|               |               | 59.5  | 40.0      | 16.01    | 407        | 7.00            | 178        | 0.51              | 13.0       | 0.31             | 7.9        |
| 6" x 7"       | 406.4 x 177.8 | 67.0  | 45.0      | 16.13    | 410        | 7.04            | 179        | 0.57              | 14.5       | 0.35             | 8.9        |
|               |               | 74.4  | 50.0      | 16.26    | 413        | 7.07            | 180        | 0.63              | 16.0       | 0.38             | 9.7        |
|               |               | 84.8  | 57.0      | 16.43    | 417        | 7.12            | 181        | 0.72              | 18.3       | 0.43             | 10.9       |
|               |               | 99.7  | 67.0      | 16.33    | 415        | 10.24           | 260        | 0.67              | 17.0       | 0.40             | 10.2       |
|               |               | 114.6 | 77.0      | 16.52    | 420        | 10.30           | 262        | 0.76              | 19.3       | 0.46             | 11.7       |
| 16" x 10 1/4" | 406.4 x 260.3 | 132.6 | 89.0      | 16.75    | 425        | 10.37           | 263        | 0.88              | 22.2       | 0.53             | 13.3       |
|               |               | 149.0 | 100.0     | 16.97    | 431        | 10.43           | 265        | 0.99              | 25.0       | 0.59             | 14.9       |
|               |               | 52.1  | 35.0      | 17.70    | 450        | 6.00            | 152        | 0.43              | 10.9       | 0.30             | 7.6        |
|               |               | 59.5  | 40.0      | 17.90    | 455        | 6.02            | 153        | 0.53              | 13.5       | 0.32             | 8.1        |
|               |               | 68.4  | 46.0      | 18.06    | 459        | 6.06            | 154        | 0.61              | 15.5       | 0.36             | 9.1        |
| 18" x 6"      | 457.2 x 152.4 | 74.4  | 50.0      | 17.99    | 457        | 7.50            | 190        | 0.57              | 14.5       | 0.36             | 9.1        |
|               |               | 81.8  | 55.0      | 18.11    | 460        | 7.53            | 191        | 0.63              | 16.0       | 0.39             | 9.9        |
|               |               | 89.3  | 60.0      | 18.24    | 463        | 7.56            | 192        | 0.70              | 17.8       | 0.42             | 10.7       |
|               |               | 96.7  | 65.0      | 18.35    | 466        | 7.59            | 193        | 0.75              | 19.0       | 0.45             | 11.4       |
|               |               | 105.5 | 71.0      | 18.47    | 469        | 7.64            | 194        | 0.81              | 20.6       | 0.50             | 12.7       |
| 18" x 7 1/2"  | 457.2 x 190.5 | 113.1 | 76.0      | 18.21    | 463        | 11.04           | 280        | 0.68              | 17.3       | 0.43             | 10.9       |
|               |               | 128.0 | 86.0      | 18.39    | 467        | 11.09           | 282        | 0.77              | 19.6       | 0.42             | 12.2       |
|               |               | 144.3 | 97.0      | 18.59    | 472        | 11.15           | 283        | 0.87              | 22.1       | 0.54             | 13.7       |
|               |               | 157.7 | 106.0     | 18.73    | 476        | 11.20           | 284        | 0.94              | 23.9       | 0.59             | 15.0       |
|               |               | 177.1 | 119.0     | 18.97    | 482        | 11.27           | 286        | 1.06              | 26.9       | 0.66             | 16.8       |
| 21" x 6 1/2"  | 533.4 x 165.1 | 65.5  | 44.0      | 20.66    | 525        | 6.50            | 165        | 0.45              | 11.4       | 0.35             | 8.9        |
|               |               | 74.4  | 50.0      | 20.83    | 529        | 6.53            | 166        | 0.54              | 13.7       | 0.38             | 9.7        |
|               |               | 92.3  | 62.0      | 20.99    | 533        | 8.24            | 209        | 0.62              | 15.7       | 0.40             | 10.2       |
|               |               | 101.2 | 68.0      | 21.13    | 537        | 8.27            | 210        | 0.69              | 17.5       | 0.43             | 10.9       |
|               |               | 108.7 | 73.0      | 21.24    | 539        | 8.30            | 211        | 0.74              | 18.8       | 0.46             | 11.6       |
| 21" x 8 1/4"  | 533.4 x 209.5 | 123.5 | 83.0      | 21.43    | 544        | 8.36            | 212        | 0.84              | 21.3       | 0.52             | 13.2       |
|               |               | 138.4 | 93.0      | 21.62    | 549        | 8.42            | 214        | 0.93              | 23.6       | 0.58             | 14.7       |
|               |               | 150.3 | 101.0     | 21.36    | 543        | 12.29           | 312        | 0.80              | 20.3       | 0.50             | 12.7       |
|               |               | 165.2 | 111.0     | 21.51    | 546        | 12.34           | 313        | 0.88              | 22.4       | 0.55             | 14.0       |
|               |               | 181.5 | 122.0     | 21.68    | 551        | 12.39           | 315        | 0.96              | 24.4       | 0.60             | 15.2       |
| 24" x 7"      | 609.6 x 177.8 | 196.7 | 132.0     | 21.83    | 554        | 12.44           | 316        | 1.04              | 26.3       | 0.65             | 16.5       |
|               |               | 81.8  | 55.0      | 23.57    | 599        | 7.01            | 178        | 0.51              | 13.0       | 0.40             | 10.2       |
|               |               | 92.3  | 62.0      | 23.74    | 603        | 7.04            | 179        | 0.59              | 15.0       | 0.43             | 10.9       |
|               |               | 101.2 | 68.0      | 23.73    | 603        | 8.97            | 228        | 0.59              | 15.0       | 0.42             | 10.7       |
|               |               | 113.1 | 76.0      | 23.92    | 608        | 8.99            | 228        | 0.68              | 17.3       | 0.44             | 11.2       |
| 24" x 9"      | 609.6 x 228.6 | 125.0 | 84.0      | 24.10    | 612        | 9.02            | 229        | 0.77              | 19.6       | 0.47             | 11.9       |
|               |               | 139.9 | 94.0      | 24.31    | 617        | 9.07            | 230        | 0.88              | 22.4       | 0.52             | 13.2       |
|               |               | 153.3 | 103.0     | 24.53    | 623        | 9.00            | 229        | 0.98              | 24.9       | 0.55             | 14.0       |
|               |               | 154.8 | 104.0     | 24.06    | 611        | 12.75           | 324        | 0.75              | 19.0       | 0.50             | 12.7       |
|               |               | 174.1 | 117.0     | 24.26    | 616        | 12.80           | 325        | 0.85              | 21.6       | 0.55             | 14.0       |
| 24" x 12 3/4" | 609.6 x 323.8 | 194.9 | 131.0     | 24.48    | 622        | 12.86           | 327        | 0.96              | 24.4       | 0.61             | 15.5       |
|               |               | 217.3 | 146.0     | 24.74    | 628        | 12.90           | 328        | 1.09              | 27.7       | 0.65             | 16.5       |
|               |               | 125.0 | 84.0      | 26.71    | 678        | 9.96            | 253        | 0.64              | 16.3       | 0.46             | 11.7       |
|               |               | 139.9 | 94.0      | 26.92    | 684        | 9.99            | 254        | 0.75              | 19.0       | 0.49             | 12.4       |
|               |               | 151.8 | 102.0     | 27.09    | 688        | 10.02           | 255        | 0.83              | 21.1       | 0.52             | 13.2       |
| 27" x 10"     | 685.8 x254.0  | 169.6 | 114.0     | 27.29    | 693        | 10.07           | 256        | 0.93              | 23.6       | 0.57             | 14.5       |
|               |               | 217.3 | 146.0     | 27.38    | 695        | 13.97           | 355        | 0.98              | 24.9       | 0.61             | 15.5       |
|               |               | 239.6 | 161.0     | 27.59    | 701        | 14.02           | 356        | 1.08              | 27.4       | 0.66             | 16.8       |
|               |               | 133.9 | 90.0      | 29.53    | 750        | 10.40           | 264        | 0.61              | 15.5       | 0.47             | 11.9       |
|               |               | 147.3 | 99.0      | 29.65    | 753        | 10.45           | 265        | 0.67              | 17.0       | 0.52             | 13.2       |
| 30" x 10 1/2" | 762.0 x 266.7 | 160.7 | 108.0     | 29.83    | 758        | 10.48           | 266        | 0.76              | 19.3       | 0.55             | 14.0       |
|               |               | 172.6 | 116.0     | 30.01    | 762        | 10.50           | 267        | 0.85              | 21.6       | 0.57             | 14.5       |
|               |               | 184.7 | 124.00    | 30.17    | 766        | 10.52           | 267        | 0.93              | 23.6       | 0.59             | 14.9       |
|               |               | 175.6 | 118.0     | 32.86    | 835        | 11.48           | 292        | 0.74              | 18.8       | 0.55             | 14.0       |
|               |               | 193.4 | 130.0     | 33.09    | 840        | 11.51           | 292        | 0.86              | 21.8       | 0.58             | 14.7       |
| 33" x 11 1/2" | 838.2 x 292.1 | 209.8 | 141.0     | 33.30    | 846        | 11.54           | 293        | 0.96              | 24.4       | 0.61             | 15.5       |
|               |               | 200.9 | 135.0     | 35.55    | 903        | 11.95           | 304        | 0.79              | 20.1       | 0.60             | 15.2       |
|               |               | 223.2 | 150.0     | 35.55    | 911        | 11.98           | 304        | 0.94              | 23.9       | 0.63             | 16.0       |
|               |               | 238.1 | 160.0     | 36.01    | 915        | 12.00           | 305        | 1.02              | 25.9       | 0.65             | 16.5       |
|               |               | 253.3 | 170.0     | 35.85    | 911        | 11.98           | 304        | 0.94              | 23.9       | 0.63             | 15.9       |
| 40" x 12"     | 1016 x 304.8  | 221.7 | 149.0     | 38.20    | 970        | 11.81           | 300        | 0.83              | 21.1       | 0.63             | 16.0       |

## Tubo Estructural

| DIÁMETRO NOMINAL |            | DIÁMETRO EXTERIOR |            | DIÁMETRO INTERIOR |            | ESPESOR  |            | PESO   |
|------------------|------------|-------------------|------------|-------------------|------------|----------|------------|--------|
| PULGADAS         | MILÍMETROS | PULGADAS          | MILÍMETROS | PULGADAS          | MILÍMETROS | PULGADAS | MILÍMETROS | KG/M   |
| 6"               | 152.4      | 6.63              | 168.28     | 6.13              | 155.58     | 0.250    | 6.35       | 25.41  |
| 8"               | 203.2      | 8.63              | 219.08     | 8.3               | 206.38     | 0.150    | 6.35       | 35.57  |
| 8"               | 203.2      | 8.63              | 219.08     | 7.98              | 202.72     | 0.322    | 8.18       | 42.55  |
| 10"              | 254.0      | 10.75             | 273.05     | 10.25             | 260.35     | 0.250    | 6.35       | 41.88  |
| 10"              | 254.0      | 10.75             | 273.05     | 10.00             | 254.00     | 0.375    | 9.53       | 62.03  |
| 12"              | 304.8      | 12.75             | 323.85     | 12.25             | 311.15     | 0.250    | 6.35       | 49.84  |
| 12"              | 304.8      | 12.75             | 323.85     | 12.00             | 304.80     | 0.375    | 9.53       | 73.91  |
| 14"              | 355.6      | 14.00             | 355.60     | 13.25             | 336.55     | 0.375    | 9.53       | 81.41  |
| 16"              | 406.0      | 16.00             | 406.40     | 15.00             | 381.00     | 0.500    | 12.70      | 123.44 |

\*En largos de 6.10 m y 12.20 m

## Estructurales

## HSS

| DIMENSIONES EXTERIORES |            | ESPESOR  |            | PESO   |          |
|------------------------|------------|----------|------------|--------|----------|
| PULGADAS               | MILÍMETROS | PULGADAS | MILÍMETROS | KG/M   | KG/PIEZA |
| 4" X 4"                | 102 X 102  | 0.375    | 9.50       | 25.74  | 314      |
| 6" X 4"                | 152 X 102  | 0.375    | 9.50       | 33.28  | 406      |
|                        |            | 0.187    | 4.70       | 21.64  | 264      |
|                        |            | 0.250    | 6.30       | 28.36  | 346      |
| 6" X 6"                | 152 X 152  | 0.312    | 7.90       | 34.75  | 424      |
|                        |            | 0.375    | 9.50       | 40.98  | 500      |
|                        |            | 0.500    | 12.70      | 52.46  | 640      |
|                        |            | 0.187    | 4.70       | 21.64  | 264      |
|                        |            | 0.250    | 6.30       | 28.36  | 346      |
| 8" X 4"                | 203 X 102  | 0.375    | 9.50       | 40.98  | 500      |
|                        |            | 0.500    | 12.70      | 52.46  | 640      |
| 8" X 6"                | 203 X 152  | 0.250    | 6.30       | 33.44  | 408      |
|                        |            | 0.375    | 9.50       | 48.52  | 592      |
|                        |            | 0.187    | 4.70       | 29.18  | 356      |
|                        |            | 0.250    | 6.30       | 38.52  | 470      |
| 8" X 8"                | 203 X 203  | 0.312    | 7.90       | 47.38  | 578      |
|                        |            | 0.375    | 9.50       | 56.07  | 684      |
|                        |            | 0.500    | 12.70      | 72.79  | 888      |
|                        |            | 0.187    | 4.70       | 29.34  | 358      |
| 10" X 6"               | 254 X 152  | 0.250    | 6.40       | 38.52  | 470      |
|                        |            | 0.375    | 9.50       | 56.15  | 658      |
|                        |            | 0.187    | 4.70       | 36.89  | 450      |
|                        |            | 0.250    | 6.30       | 48.52  | 592      |
| 10" X 10"              | 254 X 254  | 0.312    | 7.90       | 60.16  | 734      |
|                        |            | 0.375    | 9.50       | 71.31  | 870      |
|                        |            | 0.500    | 12.70      | 92.95  | 1134     |
| 12" X 6"               | 305 X 152  | 0.375    | 9.50       | 63.77  | 778      |
| 12" X 8"               | 305 X 203  | 0.375    | 9.50       | 71.31  | 870      |
|                        |            | 0.500    | 12.70      | 92.95  | 1134     |
|                        |            | 0.250    | 6.30       | 58.69  | 716      |
|                        |            | 0.312    | 7.90       | 72.79  | 888      |
| 12" X 12"              | 305 X 305  | 0.375    | 9.50       | 86.56  | 1056     |
|                        |            | 0.500    | 12.70      | 113.28 | 1382     |
|                        |            | 0.625    | 15.90      | 138.85 | 1694     |
|                        |            | 0.375    | 9.50       | 101.64 | 1240     |
| 14" X 14"              | 356 X 356  | 0.500    | 12.70      | 133.44 | 1628     |
|                        |            | 0.625    | 15.90      | 163.77 | 1998     |
|                        |            | 0.375    | 9.50       | 116.89 | 1426     |
| 16" X 16"              | 406 X 406  | 0.500    | 12.70      | 153.77 | 1876     |
|                        |            | 0.626    | 15.90      | 189.51 | 2312     |

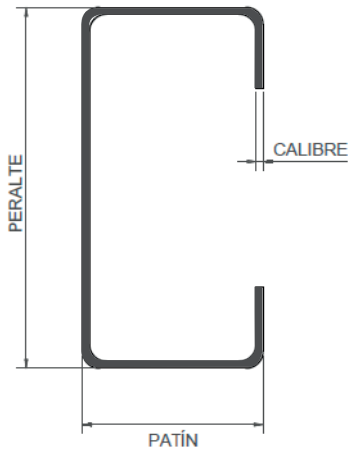
\*En largos de 12.20 m



**COMERCIALES**

Polín

| PERFIL   |   |        | ESPESOR | LONGITUD | PESO  |          |
|----------|---|--------|---------|----------|-------|----------|
| PERALTEP |   | ATÍN   | CALIBRE | METROS   | KG/M  | KG/PIEZA |
| 3"       | x | 1 1/2" | 14      | 6        | 2.40  | 14.40    |
| 4"       | x | 2"     | 14      | 6        | 3.18  | 19.08    |
| 5"       | x | 2"     | 14      | 6        | 3.55  | 21.30    |
| 6"       | x | 2"     | 14      | 6        | 4.16  | 24.96    |
|          | x | 2"     | 12      | 6        | 5.66  | 33.96    |
| 8"       | x | 2 3/4" | 14      | 8        | 5.37  | 42.96    |
|          | x | 2 3/4" | 12      | 8        | 7.62  | 60.96    |
|          | x | 2 3/4" | 10      | 8        | 9.62  | 76.96    |
| 10"      | x | 2 3/4" | 14      | 10       | 6.20  | 62.00    |
|          | x | 3 1/2" | 14      | 10       | 7.03  | 70.30    |
|          | x | 2 3/4" | 12      | 10       | 8.70  | 87.00    |
|          | x | 2 3/4" | 10      | 10       | 11.10 | 111.00   |
| 12"      | x | 3 1/2" | 14      | 12       | 7.66  | 91.92    |
|          | x | 3 1/2" | 12      | 12       | 10.38 | 129.96   |
|          | x | 3 1/2" | 10      | 12       | 13.83 | 165.96   |



## Tubo Cédula 30

| DIÁMETRO NOMINAL |            | DIÁMETRO EXTERIOR |            | DIÁMETRO INTERIOR |            | ESPESOR  |            | PESO |          |
|------------------|------------|-------------------|------------|-------------------|------------|----------|------------|------|----------|
| PULGADAS         | MILÍMETROS | PULGADAS          | MILÍMETROS | PULGADAS          | MILÍMETROS | PULGADAS | MILÍMETROS | KG/M | KG/PIEZA |
| 1/2"             | 12.70      | 0.840             | 21.33      | 0.690             | 17.53      | 0.075    | 1.91       | 0.91 | 5.55     |
| 3/4"             | 19.05      | 1.050             | 26.67      | 0.900             | 22.86      | 0.075    | 1.91       | 1.16 | 7.08     |
| 1"               | 25.40      | 1.317             | 33.40      | 1.165             | 29.59      | 0.075    | 1.91       | 1.50 | 9.15     |
| 1 1/4"           | 31.75      | 1.660             | 42.16      | 1.480             | 37.59      | 0.090    | 2.29       | 2.35 | 14.34    |
| 1 1/2"           | 38.10      | 1.900             | 48.26      | 1.720             | 43.69      | 0.090    | 2.29       | 2.70 | 16.47    |
| 2"               | 50.80      | 2.375             | 60.33      | 2.165             | 54.99      | 0.105    | 2.67       | 3.95 | 24.10    |
| 2 1/2"           | 63.50      | 2.875             | 73.03      | 2.665             | 67.69      | 0.105    | 2.67       | 4.80 | 29.28    |
| 3"               | 76.20      | 3.500             | 88.90      | 3.260             | 828.00     | 0.120    | 3.05       | 6.70 | 40.87    |
| 4"               | 101.60     | 4.500             | 114.30     | 4.260             | 108.28     | 0.120    | 3.05       | 8.60 | 52.46    |

\*En largos de 6.10 m

## Tubo Cédula 40

| DIÁMETRO NOMINAL |            | DIÁMETRO EXTERIOR |            | DIÁMETRO INTERIOR |            | ESPESOR  |            | PESO  |          |
|------------------|------------|-------------------|------------|-------------------|------------|----------|------------|-------|----------|
| PULGADAS         | MILÍMETROS | PULGADAS          | MILÍMETROS | PULGADAS          | MILÍMETROS | PULGADAS | MILÍMETROS | KG/M  | KG/PIEZA |
| 1/2"             | 12.70      | 0.840             | 21.34      | 0.622             | 15.80      | 0.109    | 2.77       | 1.27  | 7.75     |
| 3/4"             | 19.05      | 1.050             | 26.67      | 0.824             | 20.93      | 0.113    | 2.87       | 1.68  | 10.25    |
| 1"               | 25.40      | 1.317             | 33.40      | 1.049             | 26.64      | 0.133    | 3.38       | 2.50  | 15.25    |
| 1 1/4"           | 31.75      | 1.660             | 42.16      | 1.380             | 35.05      | 0.140    | 3.56       | 3.39  | 20.68    |
| 1 1/2"           | 38.10      | 1.900             | 48.26      | 1.610             | 40.89      | 0.145    | 3.68       | 4.05  | 24.71    |
| 2"               | 50.80      | 2.375             | 60.33      | 2.067             | 52.50      | 0.154    | 3.91       | 5.44  | 33.18    |
| 2 1/2"           | 63.50      | 2.875             | 73.03      | 2.469             | 63.71      | 0.203    | 5.16       | 8.63  | 52.64    |
| 3"               | 76.20      | 3.500             | 88.90      | 3.068             | 77.93      | 0.216    | 5.49       | 11.29 | 68.87    |
| 4"               | 101.60     | 4.500             | 114.30     | 4.026             | 102.26     | 0.237    | 6.02       | 16.07 | 98.03    |
| 6"               | 152.40     | 6.625             | 168.28     | 6.249             | 158.72     | 0.188    | 4.78       | 18.45 | 112.55   |
| 6"               | 152.40     | 6.625             | 168.28     | 6.125             | 155.58     | 0.250    | 6.35       | 24.87 | 151.71   |
| 6"               | 152.40     | 6.625             | 168.28     | 6.065             | 154.05     | 0.280    | 7.11       | 27.30 | 166.53   |

\*En largos de 6.10 m

# Tubo Cédula 80

| DIÁMETRO NOMINAL |            | DIÁMETRO EXTERIOR |            | DIÁMETRO INTERIOR |            | ESPESOR  |            | PESO  |
|------------------|------------|-------------------|------------|-------------------|------------|----------|------------|-------|
| PULGADAS         | MILÍMETROS | PULGADAS          | MILÍMETROS | PULGADAS          | MILÍMETROS | PULGADAS | MILÍMETROS | KG/M  |
| 1/2"             | 12.70      | 0.840             | 21.34      | 0.546             | 13.88      | 0.147    | 3.73       | 1.62  |
| 3/4"             | 19.05      | 1.050             | 26.67      | 0.742             | 18.85      | 0.154    | 3.91       | 2.20  |
| 1"               | 25.40      | 1.315             | 33.40      | 0.957             | 24.30      | 0.179    | 4.55       | 3.24  |
| 1 1/4"           | 31.75      | 1.660             | 42.16      | 1.278             | 32.46      | 0.191    | 4.85       | 4.47  |
| 1 1/2"           | 38.10      | 1.900             | 48.26      | 1.500             | 38.10      | 0.200    | 5.08       | 5.41  |
| 2"               | 50.80      | 2.375             | 60.32      | 1.939             | 49.25      | 0.218    | 5.54       | 7.48  |
| 2 1/2"           | 63.50      | 2.875             | 73.02      | 2.323             | 59.00      | 0.276    | 7.01       | 11.41 |
| 3"               | 76.20      | 3.500             | 88.90      | 2.900             | 73.66      | 0.300    | 7.62       | 15.27 |
| 3 1/2"           | 88.90      | 4.000             | 101.60     | 3.364             | 85.44      | 0.318    | 8.08       | 18.63 |
| 4"               | 101.60     | 4.500             | 114.30     | 3.826             | 97.18      | 0.337    | 8.56       | 22.32 |
| 5"               | 127.00     | 5.563             | 141.30     | 4.813             | 122.24     | 0.375    | 9.53       | 30.97 |
| 6"               | 152.40     | 6.625             | 168.27     | 5.761             | 146.33     | 0.432    | 10.97      | 42.56 |
| 8"               | 203.20     | 8.625             | 219.08     | 7.625             | 193.67     | 0.500    | 12.70      | 64.64 |

# PTR

| DIMENSIONES EXTERIORES |            | ESPESOR  |            |         | COLOR DE IDENTIFICACIÓN | PESO  |          |
|------------------------|------------|----------|------------|---------|-------------------------|-------|----------|
| PULGADAS               | MILÍMETROS | PULGADAS | MILÍMETROS | CALIBRE |                         | KG/M  | KG/PIEZA |
| 3/4" x 3/4"            | 19 x 19    | 0.075    | 1.9        | 14      | Cl4                     | 1.04  | 6.36     |
| 1" x 1"                | 25 x 25    | 0.060    | 1.5        | 16      | Cl6                     | 1.18  | 7.20     |
|                        |            | 0.075    | 1.9        | 14      | Cl4                     | 1.48  | 9.03     |
|                        |            | 0.105    | 2.7        | 12      | Verde                   | 1.93  | 11.77    |
|                        |            | 0.135    | 3.4        | 10      | Rojo                    | 2.13  | 12.99    |
| 1 1/4" x 1 1/4"        | 32 x 32    | 0.060    | 1.5        | 16      | Cl6                     | 1.43  | 8.72     |
|                        |            | 0.075    | 1.9        | 14      | Cl4                     | 1.80  | 10.98    |
| 1 1/2" x 1 1/2"        | 38 x 38    | 0.060    | 1.5        | 16      | Cl6                     | 1.96  | 11.96    |
|                        |            | 0.075    | 1.9        | 14      | Cl4                     | 2.13  | 12.99    |
|                        |            | 0.105    | 2.7        | 12      | Blanco                  | 2.95  | 18.00    |
|                        |            | 0.120    | 3.0        | 11      | Verde                   | 3.29  | 20.07    |
|                        |            | 0.150    | 3.8        | 9       | Rojo                    | 3.91  | 23.85    |
| 2" x 1"                | 51 x 25    | 0.075    | 1.9        | 14      | Cl4                     | 2.30  | 14.03    |
| 2" x 2"                | 51 x 51    | 0.060    | 1.5        | 16      | Cl6                     | 2.51  | 15.31    |
|                        |            | 0.075    | 1.9        | 14      | Cl4                     | 2.91  | 17.75    |
|                        |            | 0.105    | 2.7        | 12      | Blanco                  | 4.00  | 24.40    |
|                        |            | 0.120    | 3.0        | 11      | Verde                   | 4.54  | 27.69    |
|                        |            | 0.150    | 3.8        | 9       | Rojo                    | 5.45  | 33.25    |
|                        |            | 0.250    | 6.3        | 1/4"    | 1/4"                    | 8.06  | 49.17    |
| 2 1/2" x 2 1/2"        | 64 x 64    | 0.075    | 1.9        | 14      | Cl4                     | 3.60  | 21.96    |
|                        |            | 0.120    | 3.0        | 11      | Blanco                  | 5.84  | 35.62    |
|                        |            | 0.135    | 3.4        | 10      | Verde                   | 6.33  | 38.61    |
|                        |            | 0.180    | 4.6        | 7       | Rojo                    | 8.32  | 50.75    |
|                        |            | 0.250    | 6.3        | 1/4"    | 1/4"                    | 10.5  | 64.60    |
| 3" x 1 1/2"            | 76 x 38    | 0.075    | 1.9        | 14      | Cl4                     | 3.40  | 20.74    |
| 3" x 2"                | 76 x 51    | 0.075    | 1.9        | 14      | Cl4                     | 3.25  | 19.83    |
|                        |            | 0.120    | 3.0        | 11      | Blanco                  | 5.84  | 35.62    |
|                        |            | 0.135    | 3.4        | 10      | Verde                   | 6.23  | 38.00    |
|                        |            | 0.180    | 4.6        | 7       | Rojo                    | 8.32  | 50.75    |
| 3" x 3"                | 76 x 76    | 0.075    | 1.9        | 14      | Cl4                     | 4.46  | 27.21    |
|                        |            | 0.120    | 3.0        | 11      | Blanco                  | 7.12  | 43.43    |
|                        |            | 0.150    | 3.8        | 9       | Verde                   | 8.37  | 51.06    |
|                        |            | 0.180    | 4.6        | 7       | Rojo                    | 10.20 | 62.22    |
|                        |            | 0.250    | 6.3        | 1/4"    | 1/4"                    | 13.66 | 83.33    |
| 3 1/2" x 3 1/2"        | 89 x 89    | 0.120    | 3.0        | 11      | Blanco                  | 8.39  | 51.18    |
|                        |            | 0.150    | 3.8        | 9       | Verde                   | 10.20 | 62.22    |
|                        |            | 0.180    | 4.6        | 7       | Rojo                    | 12.10 | 73.81    |
|                        |            | 0.250    | 6.3        | 1/4"    | Azul                    | 15.64 | 95.40    |
| 4" x 1 1/2"            | 102 x 38   | 0.075    | 1.9        | 14      | Cl4                     | 4.03  | 24.58    |
| 4" x 2"                | 102 x 51   | 0.075    | 1.9        | 14      | Cl4                     | 4.42  | 26.96    |
|                        |            | 0.120    | 3.0        | 11      | Blanco                  | 7.12  | 43.43    |
|                        |            | 0.150    | 3.8        | 9       | Verde                   | 8.37  | 51.06    |
|                        |            | 0.180    | 4.6        | 7       | Rojo                    | 10.20 | 62.22    |
| 4" x 3"                | 102 x 76   | 0.120    | 3.0        | 11      | Blanco                  | 8.39  | 51.18    |
|                        |            | 0.150    | 3.8        | 9       | Verde                   | 10.20 | 62.22    |
|                        |            | 0.180    | 4.6        | 7       | Rojo                    | 12.10 | 73.81    |
|                        |            | 0.250    | 6.3        | 1/4"    | 1/4"                    | 15.64 | 95.40    |
| 4" x 4"                | 102 x 102  | 0.075    | 1.9        | 14      | Cl4                     | 5.87  | 35.81    |
|                        |            | 0.120    | 3.0        | 11      | Blanco                  | 9.61  | 58.62    |
|                        |            | 0.135    | 3.4        | 10      | Verde                   | 11.60 | 70.76    |
|                        |            | 0.180    | 4.6        | 7       | Rojo                    | 14.04 | 85.64    |
|                        |            | 0.250    | 6.3        | 1/4"    | 1/4"                    | 18.86 | 115.05   |
| 5" x 3"                | 127 x 76   | 0.250    | 6.6        | 1/4"    | Azul                    | 17.60 | 107.36   |
| 5" x 5"                | 127 x 127  | 0.180    | 4.6        | 7       | Rojo                    | 17.90 | 109.19   |
|                        |            | 0.250    | 6.3        | 1/4"    | Azul                    | 23.24 | 141.76   |
| 6" x 2"                | 152 x 51   | 0.075    | 1.9        | 14      | Cl4                     | 6.19  | 37.76    |
| 6" x 4"                | 152 x 102  | 0.120    | 3.0        | 11      | Blanco                  | 12.14 | 74.05    |
|                        |            | 0.180    | 4.6        | 7       | Rojo                    | 17.90 | 109.19   |
|                        |            | 0.250    | 6.3        | 1/4"    | Azul                    | 23.24 | 141.76   |

\*En largos de 6.10 m

# Soleras

| ESPESOR  |   | ANCHO      |      | ESPESOR |       | ANCHO    |        | PESO |  |
|----------|---|------------|------|---------|-------|----------|--------|------|--|
| PULGADAS |   | MILÍMETROS |      | KG/M    |       | KG/PIEZA |        |      |  |
| 1/8"     | x | 1/2"       | 3.2  | x       | 12.7  | 0.32     | 1.95   |      |  |
|          | x | 3/4"       |      | x       | 19.0  | 0.47     | 2.87   |      |  |
|          | x | 1"         |      | x       | 25.4  | 0.63     | 3.84   |      |  |
|          | x | 1 1/4"     |      | x       | 31.7  | 0.79     | 4.82   |      |  |
|          | x | 1 1/2"     |      | x       | 38.1  | 0.95     | 5.79   |      |  |
|          | x | 2"         |      | x       | 50.8  | 1.27     | 7.75   |      |  |
|          | x | 2 1/2"     |      | x       | 63.5  | 1.58     | 9.64   |      |  |
|          | x | 3"         |      | x       | 76.2  | 1.90     | 11.59  |      |  |
| 3/16"    | x | 1/2"       | 4.8  | x       | 12.7  | 0.47     | 2.87   |      |  |
|          | x | 3/4"       |      | x       | 19.0  | 0.71     | 4.33   |      |  |
|          | x | 1"         |      | x       | 25.4  | 0.95     | 5.79   |      |  |
|          | x | 1 1/4"     |      | x       | 31.7  | 1.19     | 7.26   |      |  |
|          | x | 1 1/2"     |      | x       | 38.1  | 1.42     | 8.66   |      |  |
|          | x | 2"         |      | x       | 50.8  | 1.90     | 11.59  |      |  |
| 1/4"     | x | 1/2"       | 6.3  | x       | 12.7  | 0.63     | 3.84   |      |  |
|          | x | 3/4"       |      | x       | 19.0  | 0.95     | 5.79   |      |  |
|          | x | 1"         |      | x       | 25.4  | 1.27     | 7.75   |      |  |
|          | x | 1 1/4"     |      | x       | 31.7  | 1.58     | 9.64   |      |  |
|          | x | 1 1/2"     |      | x       | 38.1  | 1.90     | 11.59  |      |  |
|          | x | 2"         |      | x       | 50.8  | 2.53     | 15.43  |      |  |
|          | x | 2 1/2"     |      | x       | 63.5  | 3.17     | 19.34  |      |  |
|          | x | 3"         |      | x       | 76.2  | 3.80     | 23.18  |      |  |
|          | x | 4"         |      | x       | 101.6 | 5.06     | 30.87  |      |  |
|          | x | 5"         |      | x       | 127.0 | 6.32     | 38.55  |      |  |
|          | x | 6"         |      | x       | 152.4 | 7.60     | 46.36  |      |  |
|          | x | 8"         |      | x       | 203.2 | 10.13    | 61.79  |      |  |
|          | x | 10"        |      | x       | 254.0 | 12.66    | 77.23  |      |  |
|          | x | 12"        |      | x       | 304.8 | 15.18    | 92.60  |      |  |
| 5/16"    | x | 6"         | 7.9  | x       | 152.4 | 9.49     | 57.89  |      |  |
|          | x | 8"         |      | x       | 203.2 | 12.65    | 77.16  |      |  |
|          | x | 10"        |      | x       | 254.0 | 15.77    | 96.20  |      |  |
| 3/8"     | x | 1"         | 9.5  | x       | 25.4  | 1.90     | 11.59  |      |  |
|          | x | 1 1/4"     |      | x       | 31.7  | 2.38     | 14.52  |      |  |
|          | x | 1 1/2"     |      | x       | 38.1  | 2.84     | 17.32  |      |  |
|          | x | 2"         |      | x       | 50.8  | 3.80     | 23.18  |      |  |
|          | x | 2 1/2"     |      | x       | 63.5  | 4.75     | 28.97  |      |  |
|          | x | 3"         |      | x       | 76.2  | 5.70     | 34.77  |      |  |
|          | x | 4"         |      | x       | 101.6 | 7.60     | 46.36  |      |  |
|          | x | 5"         |      | x       | 127.0 | 9.49     | 57.89  |      |  |
|          | x | 6"         |      | x       | 152.4 | 11.40    | 69.54  |      |  |
|          | x | 8"         |      | x       | 203.2 | 15.18    | 92.60  |      |  |
|          | x | 10"        |      | x       | 254.0 | 18.99    | 115.84 |      |  |
|          | x | 12"        |      | x       | 304.8 | 22.80    | 139.08 |      |  |
| 1/2"     | x | 1"         | 12.7 | x       | 25.4  | 2.53     | 15.43  |      |  |
|          | x | 1 1/2"     |      | x       | 38.1  | 3.80     | 23.18  |      |  |
|          | x | 2"         |      | x       | 50.8  | 5.10     | 31.11  |      |  |
|          | x | 2 1/2"     |      | x       | 63.5  | 6.33     | 38.61  |      |  |
|          | x | 3"         |      | x       | 76.2  | 7.60     | 46.36  |      |  |
|          | x | 4"         |      | x       | 101.6 | 10.13    | 61.79  |      |  |
|          | x | 5"         |      | x       | 127.0 | 12.66    | 77.23  |      |  |
|          | x | 6"         |      | x       | 152.4 | 15.19    | 92.66  |      |  |
|          | x | 8"         |      | x       | 203.2 | 20.24    | 123.46 |      |  |
|          | x | 10"        |      | x       | 254.0 | 25.33    | 154.51 |      |  |
|          | x | 12"        |      | x       | 304.8 | 30.36    | 185.51 |      |  |
| 5/8"     | x | 1 1/2"     | 15.9 | x       | 38.1  | 4.75     | 28.97  |      |  |
|          | x | 2"         |      | x       | 50.8  | 6.33     | 38.61  |      |  |
|          | x | 2 1/2"     |      | x       | 63.5  | 7.95     | 48.48  |      |  |
|          | x | 3"         |      | x       | 76.2  | 9.49     | 57.89  |      |  |
|          | x | 4"         |      | x       | 101.6 | 12.66    | 77.23  |      |  |
|          | x | 5"         |      | x       | 127.0 | 15.83    | 96.56  |      |  |
|          | x | 6"         |      | x       | 152.4 | 18.99    | 115.84 |      |  |
|          | x | 8"         |      | x       | 203.2 | 25.33    | 154.51 |      |  |
|          | x | 10"        |      | x       | 254.0 | 31.66    | 193.13 |      |  |
|          | x | 12"        |      | x       | 304.8 | 37.97    | 231.62 |      |  |
| 3/4"     | x | 1 1/2"     | 19.0 | x       | 38.1  | 5.70     | 34.77  |      |  |
|          | x | 2"         |      | x       | 50.8  | 7.60     | 46.36  |      |  |
|          | x | 2 1/2"     |      | x       | 63.5  | 9.50     | 57.95  |      |  |
|          | x | 3"         |      | x       | 76.2  | 11.40    | 69.54  |      |  |
|          | x | 4"         |      | x       | 101.6 | 15.18    | 92.60  |      |  |
|          | x | 5"         |      | x       | 127.0 | 18.99    | 115.84 |      |  |
|          | x | 6"         |      | x       | 152.4 | 22.80    | 139.08 |      |  |
|          | x | 8"         |      | x       | 203.2 | 30.36    | 185.20 |      |  |
|          | x | 10"        |      | x       | 254.0 | 37.97    | 231.62 |      |  |
|          | x | 12"        |      | x       | 304.8 | 45.59    | 278.10 |      |  |
| 1"       | x | 2"         | 25.4 | x       | 50.8  | 10.13    | 61.79  |      |  |
|          | x | 3"         |      | x       | 76.2  | 15.19    | 92.66  |      |  |
|          | x | 4"         |      | x       | 101.6 | 20.27    | 123.65 |      |  |
|          | x | 6"         |      | x       | 152.4 | 30.36    | 185.20 |      |  |
|          | x | 8"         |      | x       | 203.2 | 40.53    | 247.23 |      |  |
|          | x | 10"        |      | x       | 254.0 | 50.65    | 308.97 |      |  |
|          | x | 12"        |      | x       | 304.8 | 60.71    | 370.33 |      |  |

\*En largos de 6.10 m

## Ángulos (Lados Iguales)

| ESPESOR  |   | ANCHO  | ESPESOR    | ANCHO | PESO  |          |
|----------|---|--------|------------|-------|-------|----------|
| PULGADAS |   |        | MILÍMETROS |       | KG/M  | KG/PIEZA |
| 1/8"     | x | 3/4"   | 3.2        | 19.0  | 0.88  | 5.37     |
|          | x | 1"     |            | 25.4  | 1.19  | 7.26     |
|          | x | 1 1/4" |            | 31.7  | 1.50  | 9.15     |
|          | x | 1 1/2" |            | 38.1  | 2.14  | 13.05    |
| 3/16"    | x | 2"     | 4.8        | 50.8  | 2.46  | 15.01    |
|          | x | 1"     |            | 25.4  | 1.73  | 10.55    |
|          | x | 1 1/4" |            | 31.7  | 2.20  | 13.42    |
|          | x | 1 1/2" |            | 38.1  | 2.68  | 16.35    |
|          | x | 1 3/4" |            | 44.4  | 3.15  | 19.22    |
|          | x | 2"     |            | 50.8  | 3.63  | 22.14    |
|          | x | 2 1/2" |            | 63.5  | 4.57  | 27.88    |
|          | x | 3"     |            | 76.2  | 5.52  | 33.67    |
| 1/4"     | x | 1"     | 6.3        | 25.4  | 2.22  | 13.54    |
|          | x | 1 1/4" |            | 31.7  | 2.86  | 17.45    |
|          | x | 1 1/2" |            | 38.1  | 3.48  | 21.23    |
|          | x | 2"     |            | 50.8  | 4.75  | 28.98    |
|          | x | 2 1/2" |            | 63.5  | 6.10  | 37.21    |
|          | x | 3"     |            | 76.2  | 7.29  | 44.47    |
|          | x | 3 1/2" |            | 88.9  | 8.63  | 52.64    |
|          | x | 4"     |            | 101.6 | 9.82  | 59.90    |
| 5/16"    | x | 3"     | 7.9        | 76.2  | 9.08  | 55.39    |
|          | x | 3 1/2" |            | 88.9  | 10.71 | 65.33    |
|          | x | 4"     |            | 101.6 | 12.20 | 74.42    |
|          | x | 5"     |            | 127.0 | 15.32 | 93.45    |
|          | x | 6"     |            | 152.4 | 18.45 | 112.55   |
|          | x | 2"     |            | 50.8  | 6.99  | 42.64    |
|          | x | 2 1/2" |            | 63.5  | 8.78  | 53.56    |
|          | x | 3"     |            | 76.2  | 10.71 | 65.33    |
|          | x | 3 1/2" |            | 88.9  | 12.64 | 77.10    |
|          | x | 4"     |            | 101.6 | 14.58 | 88.94    |
|          | x | 5"     |            | 127.0 | 18.30 | 111.63   |
|          | x | 6"     |            | 152.4 | 22.17 | 135.24   |
| 7/16"    | x | 4"     | 11.1       | 101.6 | 16.81 | 102.54   |
|          | x | 6"     |            | 152.4 | 25.59 | 156.10   |
| 1/2"     | x | 3"     | 12.7       | 76.2  | 13.99 | 85.34    |
|          | x | 4"     |            | 101.6 | 19.05 | 116.21   |
|          | x | 5"     |            | 127.0 | 24.11 | 147.07   |
|          | x | 6"     |            | 152.4 | 29.16 | 177.88   |
|          | x | 8"     |            | 203.2 | 39.28 | 239.61   |
|          | x | 8"     |            | 203.2 | 44.05 | 268.71   |
|          | x | 4"     |            | 101.6 | 23.36 | 142.50   |
|          | x | 6"     |            | 152.4 | 36.01 | 219.66   |
| 5/8"     | x | 8"     |            | 203.2 | 48.66 | 296.83   |
|          | x | 6"     |            | 152.4 | 42.71 | 260.53   |
| 3/4"     | x | 8"     | 19.0       | 203.2 | 57.88 | 353.07   |
|          | x | 8"     |            | 203.2 | 66.96 | 408.46   |
| 7/8"     | x | 8"     | 22.2       | 203.2 | 66.96 | 408.46   |
| 1"       | x | 6"     | 25.4       | 152.4 | 55.65 | 339.47   |
| 1 1/8"   | x | 8"     | 28.6       | 203.2 | 75.89 | 462.93   |
|          | x | 8"     |            | 203.2 | 84.67 | 516.49   |

\*En largos de 6.10 m (Solicite otras medidas)

# Ángulos (Lados Desiguales)

| ESPESOR  |   | ANCHO   |            | ESPESOR |       | ANCHO |       | PESO  |      |
|----------|---|---------|------------|---------|-------|-------|-------|-------|------|
| PULGADAS |   |         | MILÍMETROS |         |       |       |       |       | KG/M |
| 3/16"    | x | 3" x 2" | 4.8        | x       | 76.2  | x     | 50.8  | 4.57  |      |
| 1/4"     | x | 3" x 2" | 6.3        | x       | 76.2  | x     | 50.8  | 6.10  |      |
|          | x | 4" x 3" |            | x       | 101.6 | x     | 76.2  | 8.63  |      |
| 5/16"    | x | 6" x 4" | 7.9        | x       | 152.4 | x     | 101.6 | 15.33 |      |
| 3/8"     | x | 4" x 3" | 9.5        | x       | 101.6 | x     | 76.2  | 12.65 |      |
|          | x | 6" x 4" |            | x       | 152.4 | x     | 101.6 | 18.30 |      |
| 1/2"     | x | 6" x 4" | 12.7       | x       | 152.4 | x     | 101.6 | 24.11 |      |

\*En largos de 12.20 m (Solicite otras medidas)

# Redondos y Cuadrados

| DIMENSIONES |            | REDONDOS |          | CUADRADOS |          |
|-------------|------------|----------|----------|-----------|----------|
|             |            | PESO     |          | PESO      |          |
| PULGADAS    | MILÍMETROS | KG/M     | KG/PIEZA | KG/M      | KG/PIEZA |
| 3/8"        | 9.5        | 0.56     | 3.42     | 0.71      | 4.33     |
| 1/2"        | 12.7       | 0.99     | 6.04     | 1.27      | 7.75     |
| 5/8"        | 15.9       | 1.55     | 9.46     | 1.98      | 12.08    |
| 3/4"        | 19.0       | 2.24     | 13.66    | 2.85      | 17.39    |
| 7/8"        | 22.2       | 3.04     | 18.54    | -         | -        |
| 1"          | 25.4       | 3.98     | 24.28    | 5.06      | 30.87    |
| 1 1/8"      | 28.6       | 5.03     | 30.68    | 6.41      | 39.10    |
| 1 1/4"      | 31.7       | 6.21     | 37.88    | 7.92      | 48.31    |
| 1 1/2"      | 38.1       | 8.95     | 54.60    | 11.39     | 69.48    |
| 1 3/4"      | 44.4       | 12.18    | 74.30    | -         | -        |
| 2"          | 50.8       | 15.91    | 97.05    | 20.25     | 123.53   |
| 2 1/2"      | 63.5       | 24.85    | 151.59   | -         | -        |
| 3"          | 76.2       | 35.78    | 218.26   | -         | -        |

\*Se manejan en acero A-36

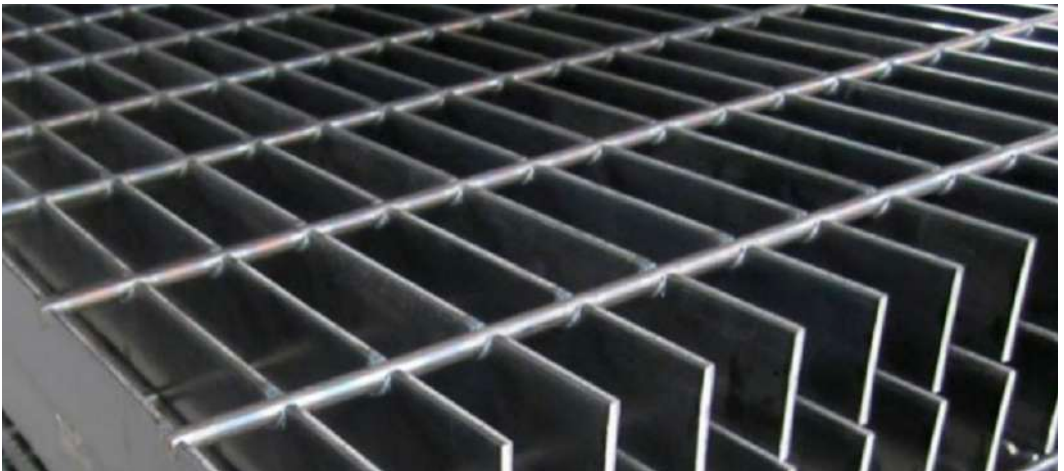
## Semiflechas

| DIMENSIONES |            | PESO |          |
|-------------|------------|------|----------|
| PULGADAS    | MILÍMETROS | KG/M | KG/PIEZA |
| 3/16"       | 4.80       | 0.14 | 0.854    |
| 1/4"        | 6.30       | 0.25 | 1.525    |
| 5/16"       | 7.90       | 0.39 | 2.379    |

\*En largos de 6.10 m

## Rejilla Electroforjada

| TAMAÑO DE SOLERA |          |            |        | PESO  | CLARO MÁXIMO<br>CON CARGA | CLARO MÁXIMO<br>CON EQUIPO |
|------------------|----------|------------|--------|-------|---------------------------|----------------------------|
| ESPESOR          | ANCHO    | ESPESOR    | ANCHO  |       |                           |                            |
| PULGADAS         |          | MILÍMETROS |        | KG/M² | M                         | M                          |
| 1/8"             | X 1"     | 3.2        | X 25.4 | 25.50 | 1.29                      | -                          |
| 1/8"             | X 1 1/4" | 3.2        | X 31.7 | 31.16 | 1.63                      | -                          |
| 3/16"            | X 1"     | 4.8        | X 25.4 | 36.83 | 1.50                      | 0.29                       |
| 3/16"            | X 1 1/4" | 4.8        | X 31.7 | 45.17 | 1.70                      | 0.29                       |

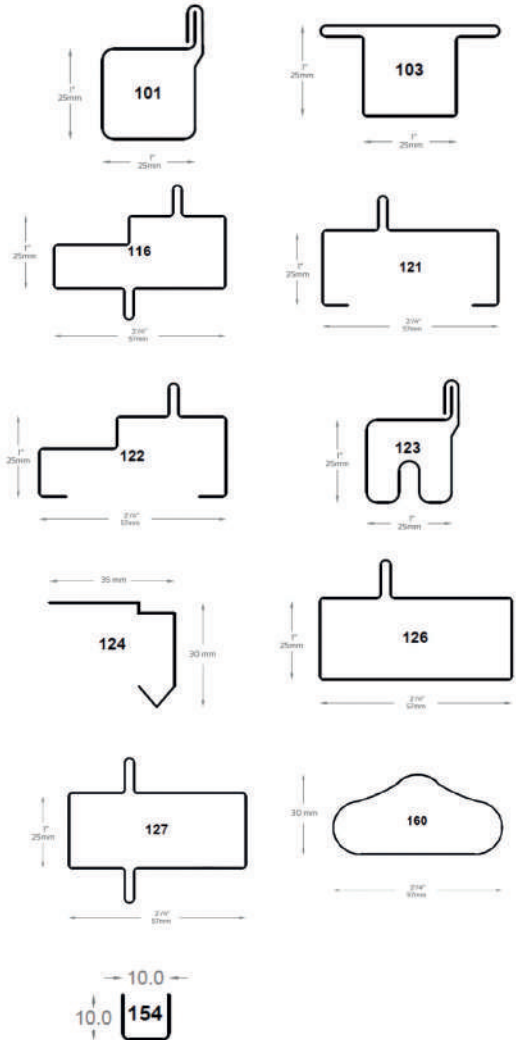


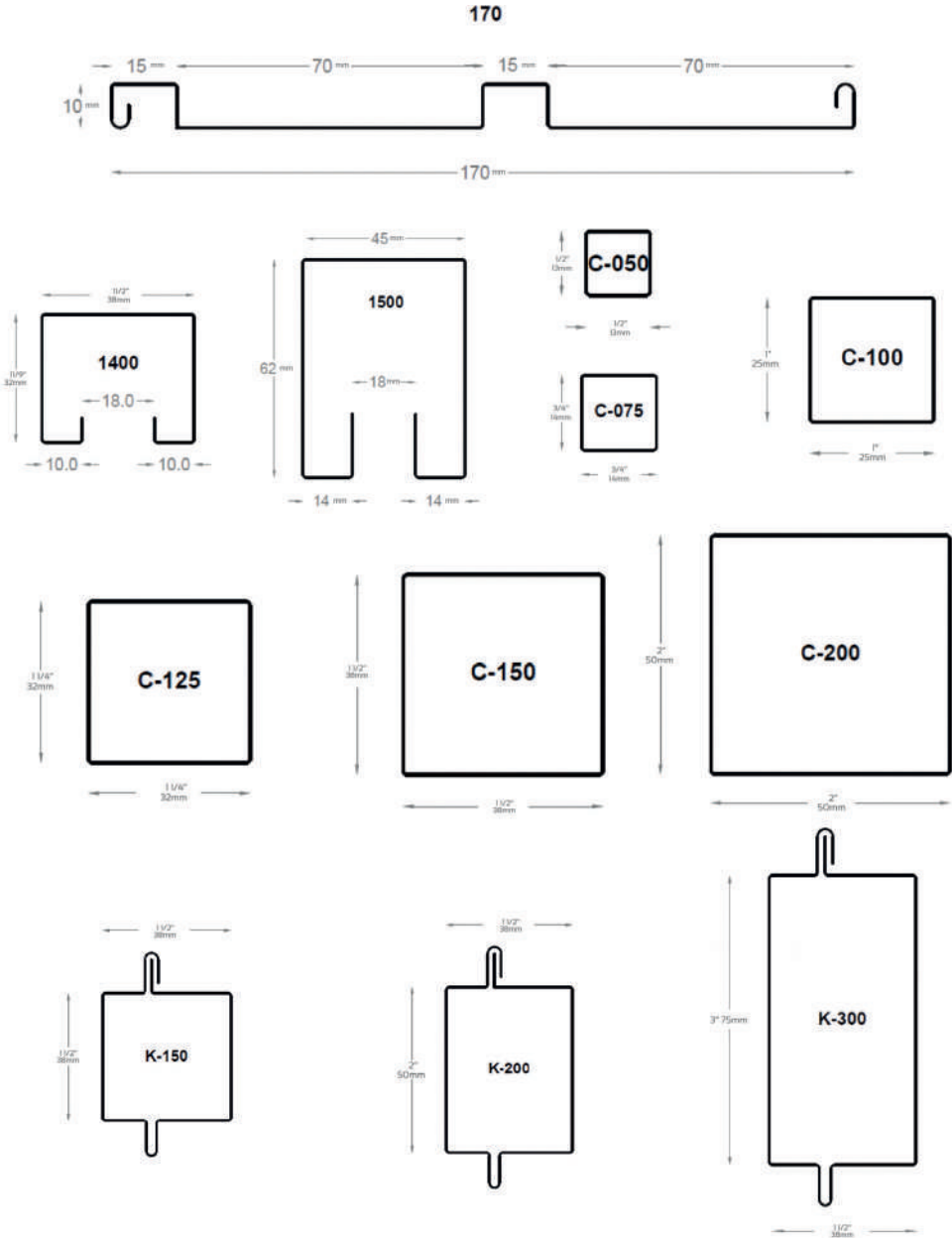


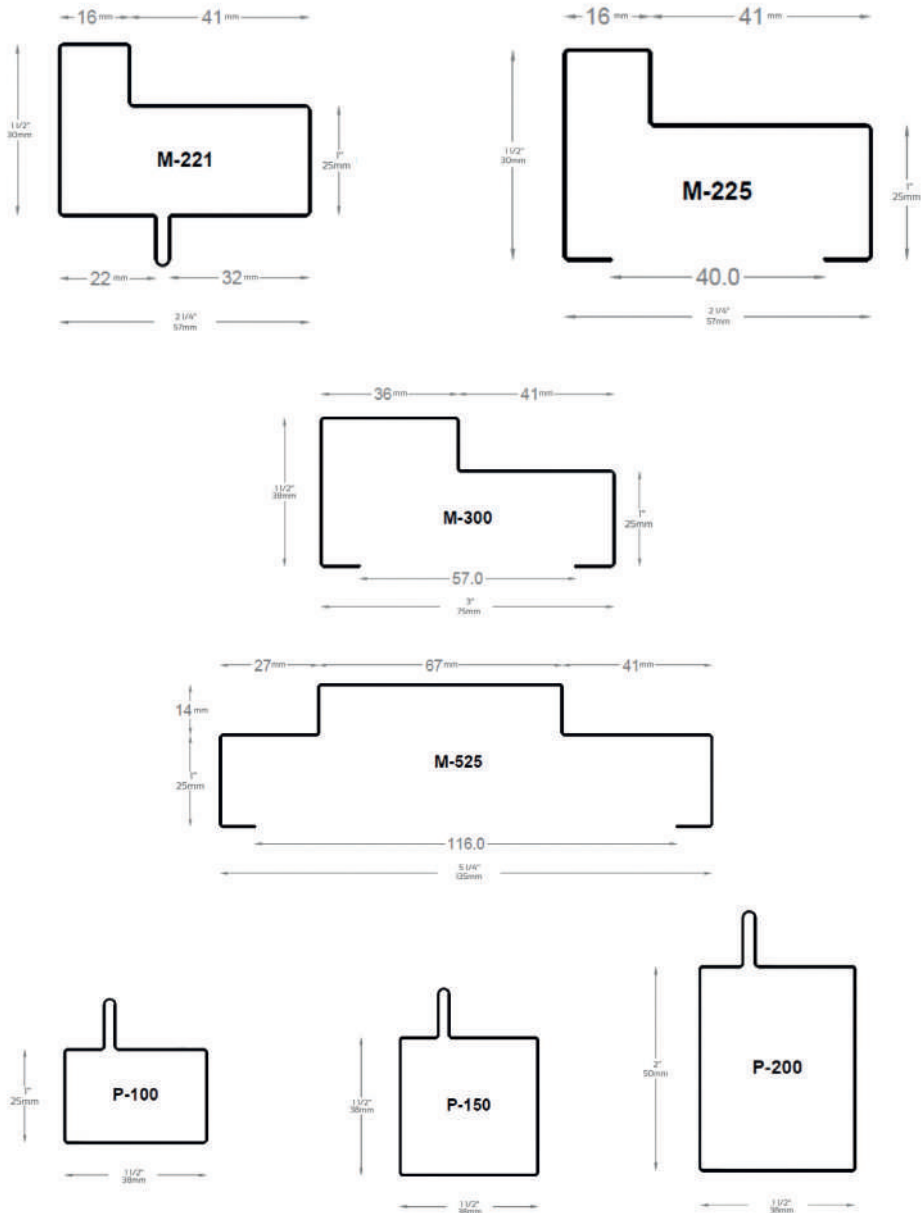
# PERFILES

# Perfiles Tubulares

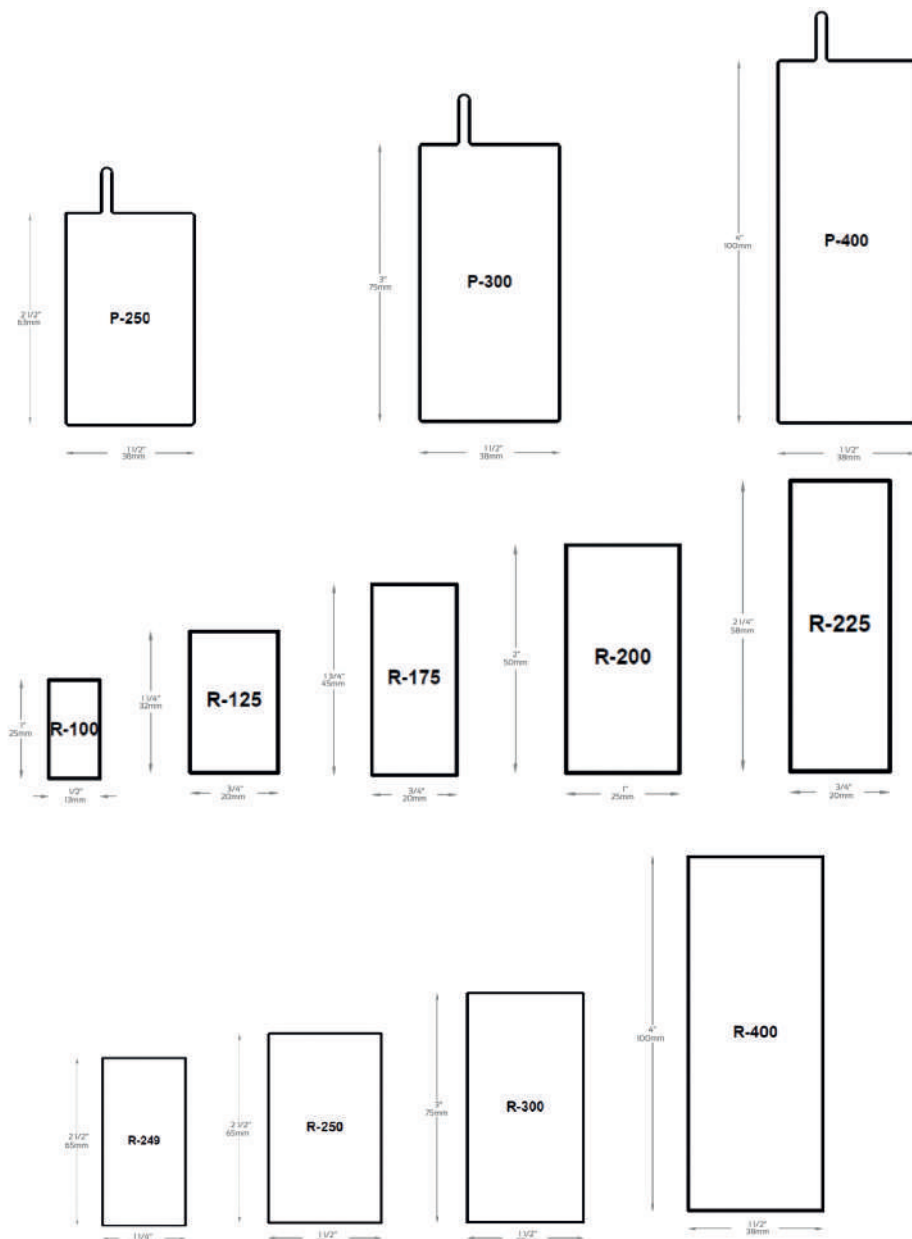
| NÚMERO | ESPESOR | LONGITUD | PESO |          |
|--------|---------|----------|------|----------|
|        | CALIBRE | METROS   | KG/M | KG/PIEZA |
| #101   | 18      | 6.00     | 120  | 7.20     |
|        | 20      | 6.00     | 0.93 | 5.58     |
| #103   | 20      | 6.00     | 110  | 6.60     |
| #106   | 20      | 6.00     | 110  | 6.60     |
| #116   | 20      | 6.00     | 150  | 9.00     |
| #121   | 18      | 6.00     | 0.97 | 5.82     |
|        | 20      | 6.00     | 0.97 | 5.82     |
| #122   | 20      | 6.00     | 0.97 | 5.82     |
| #123   | 20      | 6.00     | 110  | 6.60     |
| #124   | 18      | 6.00     | 0.70 | 4.20     |
| #126   | 20      | 6.00     | 130  | 7.80     |
| #127   | 20      | 6.00     | 144  | 8.64     |
| #154   | 20      | 6.00     | 0.20 | 1.20     |
| #160   | 20      | 6.00     | 110  | 6.60     |
| #170   | 20      | 6.00     | 159  | 9.54     |
| #1400  | 18      | 6.00     | 130  | 7.80     |
| #1500  | 16      | 6.00     | 2.84 | 17.04    |
| C-050  | 18      | 6.00     | 0.08 | 0.46     |
|        | 20      | 6.00     | 0.30 | 1.80     |
| C-075  | 18      | 6.00     | 0.70 | 4.20     |
|        | 20      | 6.00     | 0.53 | 3.18     |
| C-100  | 18      | 6.00     | 0.95 | 5.70     |
|        | 20      | 6.00     | 0.72 | 4.32     |
| C-125  | 18      | 6.00     | 120  | 7.20     |
|        | 20      | 6.00     | 0.92 | 5.52     |
| C-150  | 18      | 6.00     | 150  | 9.00     |
|        | 20      | 6.00     | 110  | 6.60     |
| C-200  | 18      | 6.00     | 193  | 11.58    |
| K-100  | 18      | 6.00     | 158  | 9.48     |
| K-150  | 20      | 6.00     | 150  | 9.00     |
| K-200  | 20      | 6.00     | 170  | 10.20    |
| K-300  | 20      | 6.00     | 190  | 11.40    |
| M-221  | 20      | 6.00     | 150  | 9.00     |
| M-225  | 18      | 5.50     | 141  | 7.76     |
| M-225  | 20      | 5.50     | 100  | 5.50     |
| M-300  | 20      | 5.50     | 110  | 6.05     |
| M-525  | 20      | 5.50     | 1.60 | 8.80     |
| P-100  | 18      | 6.00     | 136  | 8.16     |
| P-100  | 20      | 6.00     | 100  | 6.00     |
| P-150  | 18      | 6.00     | 1.65 | 9.90     |
| P-150  | 20      | 6.00     | 120  | 7.20     |
| P-200  | 20      | 6.00     | 140  | 8.40     |
| P-250  | 18      | 6.00     | 2.09 | 12.54    |
| P-250  | 20      | 6.00     | 1.60 | 9.60     |
| P-300  | 18      | 6.00     | 2.17 | 13.02    |
|        | 20      | 6.00     | 1.80 | 10.80    |
| P-400  | 18      | 6.00     | 2.17 | 16.26    |
|        | 20      | 6.00     | 2.10 | 12.60    |
| R-100  | 18      | 6.00     | 0.70 | 4.20     |
|        | 20      | 6.00     | 0.54 | 3.24     |
| R-125  | 18      | 6.00     | 0.94 | 5.65     |
|        | 20      | 6.00     | 0.70 | 4.20     |
| R-175  | 18      | 6.00     | 1.33 | 7.98     |
|        | 20      | 6.00     | 0.90 | 5.40     |
| R-200  | 18      | 6.00     | 1.42 | 8.52     |
|        | 20      | 6.00     | 1.10 | 6.60     |
| R-225  | 18      | 6.00     | 1.50 | 9.00     |
|        | 20      | 6.00     | 1.10 | 6.60     |
| R-249  | 18      | 6.00     | 1.74 | 10.44    |
|        | 20      | 6.00     | 1.40 | 8.40     |
| R-250  | 20      | 6.00     | 1.43 | 8.58     |
| R-300  | 18      | 6.00     | 2.20 | 13.20    |
|        | 20      | 6.00     | 1.60 | 9.60     |
| R-400  | 18      | 6.00     | 2.50 | 15.00    |
|        | 20      | 6.00     | 2.00 | 12.00    |







## Perfiles



# Tubo Industrial

| DIÁMETRO |            | ESPESOR | PESO  |          | DIÁMETRO |            | ESPESOR | PESO  |          |
|----------|------------|---------|-------|----------|----------|------------|---------|-------|----------|
| PULGADAS | MILÍMETROS | CALIBRE | KG/M  | KG/PIEZA | PULGADAS | MILÍMETROS | CALIBRE | KG/M  | KG/PIEZA |
| 1/2"     | 12.700     | 16      | 0.485 | 2.960    | 1 1/2"   | 38.100     | 14      | 1.804 | 11.003   |
|          |            | 18      | 0.387 | 2.358    |          |            | 16      | 1.456 | 8.881    |
|          |            | 20      | 0.292 | 1.781    |          |            | 18      | 1.160 | 7.073    |
|          |            | 22      | 0.245 | 1.493    |          |            | 20      | 0.876 | 5.344    |
| 5/8"     | 15.875     | 14      | 0.752 | 4.584    | 1 5/8"   | 41.275     | 22      | 0.734 | 4.480    |
|          |            | 16      | 0.607 | 3.700    |          |            | 14      | 1.954 | 11.920   |
|          |            | 18      | 0.483 | 2.947    |          |            | 16      | 1.577 | 9.621    |
|          |            | 20      | 0.365 | 2.227    |          |            | 18      | 1.256 | 7.663    |
| 3/4"     | 19.050     | 22      | 0.306 | 1.867    | 1 7/8"   | 47.625     | 20      | 0.949 | 5.790    |
|          |            | 14      | 0.902 | 5.501    |          |            | 14      | 2.104 | 12.837   |
|          |            | 16      | 0.728 | 4.440    |          |            | 16      | 1.699 | 10.361   |
|          |            | 18      | 0.580 | 3.537    |          |            | 18      | 1.353 | 8.252    |
| 7/8"     | 22.225     | 20      | 0.438 | 2.672    | 2"       | 50.800     | 20      | 1.022 | 6.235    |
|          |            | 22      | 0.367 | 2.240    |          |            | 14      | 2.255 | 13.753   |
|          |            | 14      | 1.052 | 6.418    |          |            | 16      | 1.820 | 11.101   |
|          |            | 16      | 0.849 | 5.180    |          |            | 18      | 1.449 | 8.842    |
| 1"       | 25.400     | 18      | 0.676 | 4.126    | 2 1/4"   | 57.150     | 20      | 1.095 | 6.680    |
|          |            | 20      | 0.511 | 3.117    |          |            | 14      | 2.405 | 14.670   |
|          |            | 22      | 0.428 | 2.613    |          |            | 16      | 1.941 | 11.841   |
|          |            | 14      | 1.202 | 7.335    |          |            | 18      | 1.546 | 9.431    |
| 1 1/8"   | 28.575     | 16      | 0.971 | 5.921    | 2 1/2"   | 63.500     | 20      | 1.168 | 7.126    |
|          |            | 18      | 0.773 | 4.715    |          |            | 14      | 2.706 | 16.504   |
|          |            | 20      | 0.584 | 3.563    |          |            | 16      | 2.184 | 13.321   |
|          |            | 22      | 0.490 | 2.986    |          |            | 18      | 1.739 | 10.610   |
| 1 1/4"   | 31.750     | 14      | 1.353 | 8.252    | 2 7/8"   | 73.025     | 20      | 1.314 | 8.016    |
|          |            | 16      | 1.092 | 6.661    |          |            | 14      | 3.006 | 18.338   |
|          |            | 18      | 0.870 | 5.305    |          |            | 16      | 2.426 | 14.801   |
|          |            | 20      | 0.657 | 4.008    |          |            | 18      | 1.933 | 11.789   |
| 1 3/8"   | 34.925     | 22      | 0.551 | 3.360    | 3"       | 76.200     | 20      | 1.460 | 8.907    |
|          |            | 14      | 1.503 | 9.169    |          |            | 14      | 3.457 | 21.089   |
|          |            | 16      | 1.213 | 7.401    |          |            | 16      | 2.790 | 17.022   |
|          |            | 18      | 0.966 | 5.894    |          |            | 18      | 2.222 | 13.557   |
|          |            | 20      | 0.730 | 4.454    | 3 1/2"   | 88.900     | 14      | 3.607 | 22.006   |
|          |            | 22      | 0.612 | 3.733    |          |            | 16      | 2.912 | 17.762   |
|          |            | 14      | 1.653 | 10.086   |          |            | 18      | 2.319 | 14.146   |
|          |            | 16      | 1.335 | 8.141    |          |            | 20      | 1.752 | 10.688   |
|          |            | 18      | 1.063 | 6.484    |          |            | 14      | 4.209 | 25.673   |
|          |            | 20      | 0.803 | 4.899    |          |            | 16      | 3.397 | 20.722   |
|          |            | 22      | 0.673 | 4.106    |          |            | 18      | 2.706 | 16.504   |

\*En largos de 6.10 m



# INDUSTRIALES

# Barras de Acero

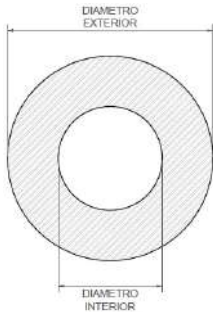
| ESPESOR  |            | PESO                                                                                        |                                                                                             |                                                                                             | ESPESOR  |            | PESO                                                                                        |                                                                                              |                                                                                               |
|----------|------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| PULGADAS | MILÍMETROS | <br>(KG/M) | <br>(KG/M) | <br>(KG/M) | PULGADAS | MILÍMETROS | <br>(KG/M) | <br>(KG/M) | <br>(KG/M) |
| 1/32"    | 0.79       | 0.0039                                                                                      | 0.0049                                                                                      | 0.0043                                                                                      | 3 3/8"   | 85.73      | 45.3080                                                                                     | 57.6879                                                                                      | 49.9592                                                                                       |
| 1/16"    | 1.59       | 0.0155                                                                                      | 0.0198                                                                                      | 0.0171                                                                                      | 3 7/16"  | 87.31      | 47.0016                                                                                     | 59.8443                                                                                      | 51.8267                                                                                       |
| 1/8"     | 3.18       | 0.0622                                                                                      | 0.0791                                                                                      | 0.0685                                                                                      | 3 1/2"   | 88.90      | 48.7263                                                                                     | 62.0402                                                                                      | 53.7284                                                                                       |
| 3/16"    | 4.76       | 0.1398                                                                                      | 0.1780                                                                                      | 0.1542                                                                                      | 3 9/16"  | 90.49      | 50.4820                                                                                     | 64.2757                                                                                      | 55.6644                                                                                       |
| 1/4"     | 6.35       | 0.2486                                                                                      | 0.3165                                                                                      | 0.2741                                                                                      | 3 5/8"   | 92.08      | 52.2689                                                                                     | 66.5508                                                                                      | 57.6347                                                                                       |
| 5/16"    | 7.94       | 0.3884                                                                                      | 0.4946                                                                                      | 0.4283                                                                                      | 3 11/16" | 93.66      | 54.0868                                                                                     | 68.8654                                                                                      | 59.6392                                                                                       |
| 3/8"     | 9.53       | 0.5594                                                                                      | 0.7122                                                                                      | 0.6168                                                                                      | 3 3/4"   | 95.25      | 55.9358                                                                                     | 71.2196                                                                                      | 61.6780                                                                                       |
| 7/16"    | 11.11      | 0.7613                                                                                      | 0.9694                                                                                      | 0.8395                                                                                      | 3 13/16" | 96.84      | 57.8158                                                                                     | 73.6134                                                                                      | 63.7511                                                                                       |
| 1/2"     | 12.70      | 0.9944                                                                                      | 1.2661                                                                                      | 1.0965                                                                                      | 3 7/8"   | 98.43      | 59.7270                                                                                     | 76.0467                                                                                      | 65.8584                                                                                       |
| 9/16"    | 14.29      | 1.2586                                                                                      | 1.6024                                                                                      | 1.3878                                                                                      | 3 15/16" | 100.01     | 61.6692                                                                                     | 78.5196                                                                                      | 68.0000                                                                                       |
| 5/8"     | 15.88      | 1.5538                                                                                      | 1.9783                                                                                      | 1.7133                                                                                      | 4"       | 101.60     | 63.6425                                                                                     | 81.0321                                                                                      | 70.1759                                                                                       |
| 11/16"   | 17.46      | 1.8801                                                                                      | 2.3938                                                                                      | 2.0731                                                                                      | 4 1/16"  | 103.19     | 65.6468                                                                                     | 83.5841                                                                                      | 72.3860                                                                                       |
| 3/4"     | 19.05      | 2.2374                                                                                      | 2.8488                                                                                      | 2.4671                                                                                      | 4 1/8"   | 104.78     | 67.6823                                                                                     | 86.1757                                                                                      | 74.6304                                                                                       |
| 13/16"   | 20.64      | 2.6259                                                                                      | 3.3434                                                                                      | 2.8954                                                                                      | 4 3/16"  | 106.36     | 69.7488                                                                                     | 88.8069                                                                                      | 76.9091                                                                                       |
| 7/8"     | 22.23      | 3.0454                                                                                      | 3.8775                                                                                      | 3.3580                                                                                      | 4 1/4"   | 107.95     | 71.8464                                                                                     | 91.4776                                                                                      | 79.2220                                                                                       |
| 15/16"   | 23.81      | 3.4960                                                                                      | 4.4512                                                                                      | 3.8549                                                                                      | 4 5/16"  | 109.54     | 73.9750                                                                                     | 94.1879                                                                                      | 81.5692                                                                                       |
| 1"       | 25.40      | 3.9777                                                                                      | 5.0645                                                                                      | 4.3860                                                                                      | 4 3/8"   | 111.13     | 76.1348                                                                                     | 96.9378                                                                                      | 83.9506                                                                                       |
| 1 1/16"  | 26.99      | 4.4904                                                                                      | 5.7174                                                                                      | 4.9514                                                                                      | 4 7/16"  | 112.71     | 78.3256                                                                                     | 99.7272                                                                                      | 86.3663                                                                                       |
| 1/8"     | 28.58      | 5.0342                                                                                      | 6.4098                                                                                      | 5.5510                                                                                      | 4 1/2"   | 114.30     | 80.5475                                                                                     | 102.5562                                                                                     | 88.8163                                                                                       |
| 1 3/16"  | 30.16      | 5.6091                                                                                      | 7.1417                                                                                      | 6.1849                                                                                      | 4 9/16"  | 115.89     | 82.8005                                                                                     | 105.4248                                                                                     | 91.3006                                                                                       |
| 1 1/4"   | 31.75      | 6.2151                                                                                      | 7.9133                                                                                      | 6.8531                                                                                      | 4 5/8"   | 117.48     | 85.0845                                                                                     | 108.3329                                                                                     | 93.8191                                                                                       |
| 1 5/16"  | 33.34      | 6.8521                                                                                      | 8.7244                                                                                      | 7.5556                                                                                      | 4 11/16" | 119.06     | 87.3996                                                                                     | 111.2806                                                                                     | 96.3719                                                                                       |
| 1 3/8"   | 34.93      | 7.5203                                                                                      | 9.5751                                                                                      | 8.2923                                                                                      | 4 3/4"   | 120.65     | 89.7458                                                                                     | 114.2679                                                                                     | 98.9589                                                                                       |
| 1 7/16"  | 36.51      | 8.2194                                                                                      | 10.4653                                                                                     | 9.0632                                                                                      | 4 13/16" | 122.24     | 92.1231                                                                                     | 117.2948                                                                                     | 101.5803                                                                                      |
| 1 1/2"   | 38.10      | 8.9497                                                                                      | 11.3951                                                                                     | 9.8685                                                                                      | 4 7/8"   | 123.83     | 94.5314                                                                                     | 120.3612                                                                                     | 104.2358                                                                                      |
| 1 9/16"  | 39.69      | 9.7111                                                                                      | 12.3645                                                                                     | 10.7080                                                                                     | 5 1/16"  | 125.41     | 96.9708                                                                                     | 123.4671                                                                                     | 106.9257                                                                                      |
| 1 5/8"   | 41.28      | 10.5035                                                                                     | 13.3735                                                                                     | 11.5818                                                                                     | 5"       | 127.00     | 99.4413                                                                                     | 126.6127                                                                                     | 109.6498                                                                                      |
| 1 11/16" | 42.86      | 11.3270                                                                                     | 14.4220                                                                                     | 12.4898                                                                                     | 5 1/16"  | 128.59     | 101.9429                                                                                    | 129.7977                                                                                     | 112.4082                                                                                      |
| 1 3/4"   | 44.45      | 12.1816                                                                                     | 15.5100                                                                                     | 13.4321                                                                                     | 5 1/8"   | 130.18     | 104.4756                                                                                    | 133.0224                                                                                     | 115.2008                                                                                      |
| 1 13/16" | 46.04      | 13.0672                                                                                     | 16.6377                                                                                     | 14.4087                                                                                     | 5 3/16"  | 131.76     | 107.0393                                                                                    | 136.2866                                                                                     | 118.0277                                                                                      |
| 1 7/8"   | 47.63      | 13.9839                                                                                     | 17.8049                                                                                     | 15.4195                                                                                     | 5 1/4"   | 133.35     | 109.6341                                                                                    | 139.5904                                                                                     | 120.8889                                                                                      |
| 1 15/16" | 49.21      | 14.9317                                                                                     | 19.0117                                                                                     | 16.4646                                                                                     | 5 5/16"  | 134.94     | 112.2600                                                                                    | 142.938                                                                                      | 123.7843                                                                                      |
| 2"       | 50.80      | 15.9106                                                                                     | 20.2580                                                                                     | 17.5440                                                                                     | 5 3/8"   | 136.53     | 114.9169                                                                                    | 146.3167                                                                                     | 126.7140                                                                                      |
| 2 1/16"  | 52.39      | 16.9106                                                                                     | 21.5439                                                                                     | 18.6576                                                                                     | 5 7/16"  | 138.11     | 117.6049                                                                                    | 149.7392                                                                                     | 129.6780                                                                                      |
| 2 1/8"   | 53.98      | 17.9206                                                                                     | 22.8694                                                                                     | 19.8055                                                                                     | 5 1/2"   | 139.70     | 120.3240                                                                                    | 153.2013                                                                                     | 132.6763                                                                                      |
| 2 3/16"  | 55.56      | 19.0337                                                                                     | 24.2345                                                                                     | 20.9877                                                                                     | 5 9/16"  | 141.29     | 123.0742                                                                                    | 156.7029                                                                                     | 135.7088                                                                                      |
| 2 1/4"   | 57.15      | 20.1369                                                                                     | 25.6391                                                                                     | 22.2041                                                                                     | 5 5/8"   | 142.88     | 125.8554                                                                                    | 160.2441                                                                                     | 138.7755                                                                                      |
| 2 5/16"  | 58.74      | 21.2711                                                                                     | 27.0832                                                                                     | 23.4548                                                                                     | 4 11/16" | 144.46     | 128.6678                                                                                    | 163.8249                                                                                     | 141.8766                                                                                      |
| 2 3/8"   | 60.33      | 22.4365                                                                                     | 28.5670                                                                                     | 24.7397                                                                                     | 4 3/4"   | 146.05     | 131.5112                                                                                    | 167.4452                                                                                     | 145.0119                                                                                      |
| 2 7/16"  | 61.91      | 23.6329                                                                                     | 30.0903                                                                                     | 26.0590                                                                                     | 4 13/16" | 147.64     | 134.3857                                                                                    | 171.1051                                                                                     | 148.1814                                                                                      |
| 2 1/2"   | 63.50      | 24.8603                                                                                     | 31.6532                                                                                     | 27.4124                                                                                     | 4 7/8"   | 149.23     | 137.2912                                                                                    | 174.8046                                                                                     | 151.3852                                                                                      |
| 2 9/16"  | 65.09      | 26.1189                                                                                     | 33.2556                                                                                     | 28.8002                                                                                     | 5 15/16" | 150.81     | 140.2278                                                                                    | 178.5436                                                                                     | 154.6233                                                                                      |
| 2 5/8"   | 66.68      | 27.4085                                                                                     | 34.8976                                                                                     | 30.2222                                                                                     | 6"       | 152.40     | 143.1955                                                                                    | 182.3222                                                                                     | 157.8957                                                                                      |
| 2 3/4"   | 68.26      | 28.7292                                                                                     | 36.5792                                                                                     | 31.6785                                                                                     | 6 1/2"   | 165.10     | 168.0559                                                                                    | 213.9754                                                                                     | 185.3082                                                                                      |
| 2 13/16" | 69.85      | 30.0810                                                                                     | 38.3003                                                                                     | 33.1691                                                                                     | 7"       | 177.80     | 194.9050                                                                                    | 248.1608                                                                                     | 214.9136                                                                                      |
| 2 7/8"   | 71.44      | 31.4639                                                                                     | 40.0610                                                                                     | 34.6939                                                                                     | 8"       | 203.20     | 254.5698                                                                                    | 324.1284                                                                                     | 280.7035                                                                                      |
| 2 15/16" | 73.03      | 32.8778                                                                                     | 41.8613                                                                                     | 36.2530                                                                                     | 9"       | 228.60     | 322.1900                                                                                    | 410.2250                                                                                     | 355.2653                                                                                      |
| 3"       | 74.61      | 34.3228                                                                                     | 43.7011                                                                                     | 37.8463                                                                                     | 10"      | 254.00     | 397.7654                                                                                    | 506.4506                                                                                     | 438.5992                                                                                      |
| 3 1/16"  | 76.20      | 35.7989                                                                                     | 45.5806                                                                                     | 39.4739                                                                                     | 11"      | 279.40     | 481.2961                                                                                    | 612.8052                                                                                     | 530.7050                                                                                      |
| 3 1/8"   | 77.79      | 37.3060                                                                                     | 47.4995                                                                                     | 41.1358                                                                                     | 12"      | 304.80     | 572.7821                                                                                    | 729.2889                                                                                     | 631.5828                                                                                      |
| 3 1/4"   | 79.38      | 38.8443                                                                                     | 49.4581                                                                                     | 42.8320                                                                                     | 14"      | 355.60     | 779.6201                                                                                    | 992.6432                                                                                     | 859.6544                                                                                      |
| 3 3/16"  | 80.96      | 40.4136                                                                                     | 51.4562                                                                                     | 44.5624                                                                                     | 16"      | 406.40     | 1018.2793                                                                                   | 1296.5135                                                                                    | 1122.8139                                                                                     |
| 3 1/4"   | 82.55      | 42.0140                                                                                     | 53.4938                                                                                     | 46.3270                                                                                     | 18"      | 457.20     | 1288.7598                                                                                   | 1640.8999                                                                                    | 1421.0613                                                                                     |
| 3 5/16"  | 84.14      | 43.6454                                                                                     | 55.5711                                                                                     | 48.1260                                                                                     | 20"      | 508.00     | 1591.0615                                                                                   | 2025.8024                                                                                    | 1754.3967                                                                                     |

\*Acero al carbón ANSI 1045 y 1018 (Solicite en diferentes tipo de grado)

# Barras Huecas

| DIMENSIONES          |                      | PESO<br>(KG/M) | DIMENSIONES          |                      | PESO<br>(KG/M) | DIMENSIONES          |                      | PESO<br>(KG/M) |
|----------------------|----------------------|----------------|----------------------|----------------------|----------------|----------------------|----------------------|----------------|
| DIÁMETRO<br>EXTERIOR | DIÁMETRO<br>INTERIOR |                | DIÁMETRO<br>EXTERIOR | DIÁMETRO<br>INTERIOR |                | DIÁMETRO<br>EXTERIOR | DIÁMETRO<br>INTERIOR |                |
| MILÍMETROS           | MILÍMETROS           |                | MILÍMETROS           | MILÍMETROS           |                | MILÍMETROS           | MILÍMETROS           |                |
| 32                   | 16                   | 4.74           | 75                   | 60                   | 12.48          | 132                  | 71                   | 76.35          |
|                      | 20                   | 3.85           | 80                   | 40                   | 29.59          |                      | 90                   | 57.49          |
|                      | 16                   | 6.41           |                      | 50                   | 24.04          |                      | 106                  | 38.15          |
| 36                   | 20                   | 5.52           |                      | 63                   | 14.99          | 140                  | 80                   | 81.38          |
|                      | 25                   | 4.14           | 85                   | 45                   | 32.06          |                      | 100                  | 59.19          |
|                      | 20                   | 7.40           |                      | 55                   | 25.89          |                      | 112                  | 43.50          |
| 40                   | 25                   | 6.01           |                      | 67                   | 16.87          | 150                  | 80                   | 99.26          |
|                      | 28                   | 5.03           | 90                   | 50                   | 34.53          |                      | 106                  | 69.45          |
|                      | 20                   | 10.02          |                      | 63                   | 25.47          |                      | 125                  | 43.39          |
| 45                   | 25                   | 8.63           |                      | 71                   | 18.86          | 160                  | 90                   | 107.89         |
|                      | 28                   | 7.65           | 95                   | 50                   | 40.23          |                      | 112                  | 80.50          |
|                      | 32                   | 6.17           |                      | 67                   | 27.97          |                      | 132                  | 50.41          |
|                      | 25                   | 11.56          |                      | 75                   | 20.96          | 170                  | 118                  | 92.33          |
|                      | 30                   | 9.86           | 100                  | 56                   | 42.32          |                      | 140                  | 57.34          |
| 50                   | 32                   | 9.10           |                      | 71                   | 30.57          | 180                  | 125                  | 103.42         |
|                      | 35                   | 7.86           |                      | 80                   | 22.20          |                      | 150                  | 61.02          |
|                      | 36                   | 7.42           | 106                  | 56                   | 49.94          | 190                  | 132                  | 115.14         |
|                      | 28                   | 14.50          |                      | 71                   | 38.19          |                      | 160                  | 64.74          |
| 56                   | 36                   | 11.34          |                      | 80                   | 29.82          | 200                  | 140                  | 125.77         |
|                      | 40                   | 9.47           | 112                  | 63                   | 52.87          |                      | 160                  | 88.78          |
|                      | 32                   | 18.16          |                      | 80                   | 37.88          | 212                  | 150                  | 138.38         |
| 63                   | 40                   | 14.61          |                      | 90                   | 27.40          |                      | 170                  | 88.92          |
|                      | 50                   | 9.06           | 118                  | 63                   | 61.38          | 236                  | 160                  | 151.52         |
|                      | 36                   | 23.09          |                      | 80                   | 46.39          |                      | 180                  | 109.60         |
| 71                   | 45                   | 18.59          |                      | 90                   | 35.91          | 250                  | 170                  | 165.21         |
|                      | 56                   | 11.75          | 125                  | 71                   | 65.25          |                      | 190                  | 120.82         |
| 75                   | 40                   | 24.82          |                      | 90                   | 46.39          |                      | 180                  | 185.58         |
|                      | 50                   | 19.27          |                      | 100                  | 34.68          |                      | 200                  | 138.72         |

\* Acero al carbón ANSI 1035 (Solicite en diferentes tipo de grado)



## Acero Inoxidable



Solera de Corta a 3.05 m  
Barra Lisa Redonda  
Ángulo Acero 304 a 6.10 m  
Tubería Ornamental T304 a 6.10 mts  
Tubería Cuadrada T304 a 6.10 mts  
Tubería Pipe T304 a 6.10 mts  
Láminas Acero 430/304/316L

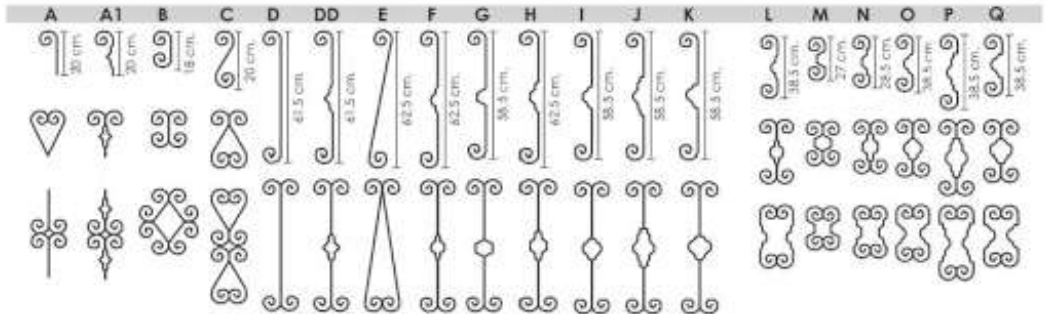
**\*CONSULTAR POR MEDIDAS\***

**\*Todo se maneja por pedido**



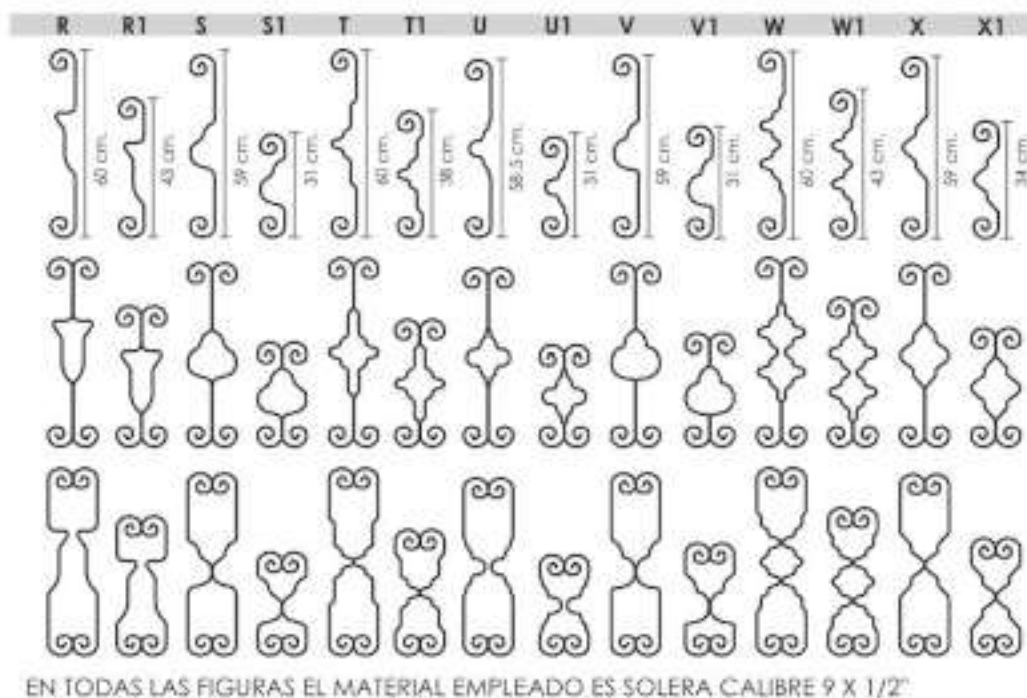
**OTROS PRODUCTOS**

# Forja Tradicional



| FIGURA | PESO TEÓRICO |
|--------|--------------|
|        | GRAMOS       |
| A      | 175          |
| AI     | 175          |
| B      | 244          |
| C      | 267          |
| CC     | 337          |
| D      | 441          |
| DD     | 441          |
| E      | 441          |
| F      | 441          |
| G      | 441          |
| H      | 441          |
| I      | 441          |
| J      | 441          |
| K      | 441          |
| L      | 351          |
| M      | 297          |
| N      | 297          |
| O      | 315          |
| P      | 385          |
| Q      | 324          |

## Forja Milenio



| FIGURA | PESO TEÓRICO |
|--------|--------------|
|        | GRAMOS       |
| R      | 441          |
| R1     | 175          |
| S      | 441          |
| S1     | 175          |
| T      | 441          |
| T1     | 175          |
| U      | 441          |
| U1     | 175          |
| V      | 441          |
| V1     | 175          |
| W      | 441          |
| W1     | 175          |
| X      | 441          |
| X1     | 175          |

## Gases Industriales

- Oxígeno
- Acetileno
- Bióxido de Carbono

## Consumibles

- Discos de Corte
- Discos de Desbaste
- Discos de Lijado
- Seguetas

## Protección Industrial

- Guantes
- Caretas
- Vidrios Claros y Oscuros

## Herramientas

- Equipos de Corte
- Máquinas de Soldar
- Encendedores

## Ferretería

- Pijas
- Dados
- Tornillos

## Soldaduras

- Electrodos
- Alambres
- Varillas

## Accesorios

- Cerraduras
- Chapas
- Bisagras
- Manijas
- Tejuelos
- Pasadores
- Ruedas Guía
- Carretillas
- Carruchas

## Decoración

- Forja
- Nudos
- Flechas
- Aros
- Piñas
- Platos Decorativos
- Solera Perforada
- Varillas Caramelo

### **DURANGO**

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