



## ***SOLUCIONES EN ACEROS***

***Km. 32.7 Autopista Comalapa,  
Olocuilta, El Salvador, C.A.***

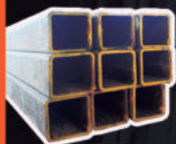


***Importadores directos de acero  
estructural para la construcción,  
industria y publicidad.***



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calidad, el mejor servicio y  
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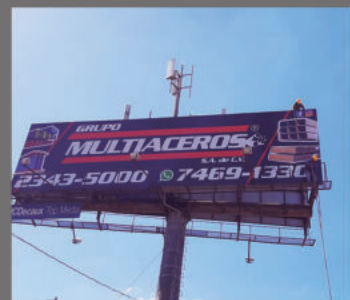
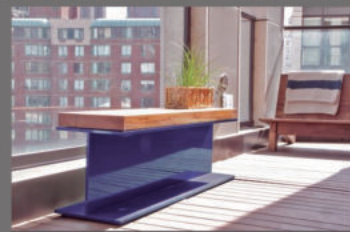


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**GRUPO MULTIA CEROS**

# Deja volar tu IMAGINACIÓN



## construye en ACERO

# ÍNDICE

|                       |   |
|-----------------------|---|
| CARTA DE PRESENTACIÓN | 5 |
|-----------------------|---|

## PERFILES ESTRUCTURALES

|             |   |
|-------------|---|
| Perfiles WF | 7 |
|-------------|---|

|                       |    |
|-----------------------|----|
| Perfiles C (Channels) | 12 |
|-----------------------|----|

## TUBERÍA

|                  |    |
|------------------|----|
| Tubería cuadrada | 14 |
|------------------|----|

|                     |    |
|---------------------|----|
| Tubería rectangular | 16 |
|---------------------|----|

|                 |    |
|-----------------|----|
| Tubería redonda | 21 |
|-----------------|----|

|         |    |
|---------|----|
| ÁNGULOS | 27 |
|---------|----|

## LÁMINAS

|                 |    |
|-----------------|----|
| Lámina de Acero | 29 |
|-----------------|----|

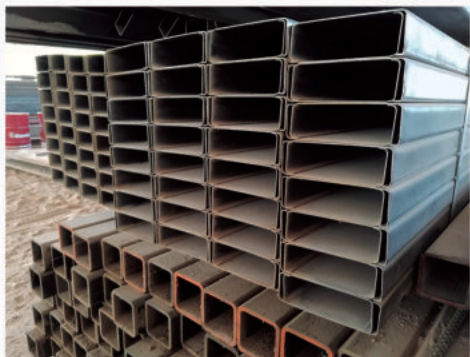
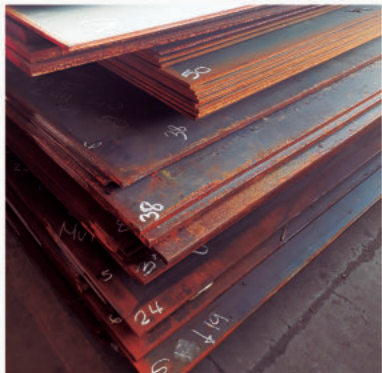
|                        |    |
|------------------------|----|
| Lámina anti - desgaste | 29 |
|------------------------|----|

|                  |    |
|------------------|----|
| Lámina lagrimada | 29 |
|------------------|----|

|            |    |
|------------|----|
| ELECTRODOS | 30 |
|------------|----|

|                    |    |
|--------------------|----|
| PERNOS DE CORTANTE | 30 |
|--------------------|----|

|                     |    |
|---------------------|----|
| TABLA DE CONVERSIÓN | 34 |
|---------------------|----|



Cotiza con nosotros

4

(503) 2343-5000

## DISTINGUIDOS SEÑORES

Somos una empresa que nace con el nuevo siglo, dedicada a la distribución de acero estructural para poner a sus órdenes el suministro de nuestra línea de productos para los sectores de construcción, industria, estructuras de publicidad y demás rubros que demanden nuestros servicios.

En los últimos años la demanda de mercado nos ha llevado a atender clientes fuera de nuestras fronteras cubriendo así gran parte de la región latinoamericana.

Nuestros productos son importados desde los molinos mas importantes en diferentes partes del mundo a nuestros patios sin intermediarios que aumenten los costos de los mismos, elaborados bajo las normas internacionales: ASTM A-36, ASTM A-572 GRD 50, A-500 GRD B, A-53 GRD B, contamos en nuestras bodegas con productos listos para ser distribuidos en toda el área.

Ofrecemos también a su servicio nuestro departamento de importación, para un completo suministro de materiales a todos sus proyectos.

Permítanos conocer más de sus necesidades, por eso lo invitamos a formar parte de la gran familia de GRUPO MULTIACEROS y así poder darles una mejor atención y apoyo a sus necesidades.

No dude en llamarnos para mayor información, con gusto le atenderemos.

Sinceramente: **Grupo**





**GRUPO**

**MULTIACEROS** 

**S.A. de C.V.**

Autopista al Aeropuerto Internacional  
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# PERFIL WF

Normas ASTM A-992, A572 GRD 50  
Producidas en otras medidas y normas

| Medida y<br>Peso por Pie | Pulgadas<br>Alma / Peralte | Pulgadas<br>Alma / Patin | Espesor<br>Ala / Patin | Espesor<br>Alma / Peralte |
|--------------------------|----------------------------|--------------------------|------------------------|---------------------------|
| W4 X 13                  | 4.16                       | 4.060                    | 0.345                  | 0.280                     |
| W5 X 16                  | 5.01                       | 5.000                    | 0.360                  | 0.240                     |
| W5 X 19                  | 5.15                       | 5.030                    | 0.430                  | 0.270                     |
| W6 X 9                   | 5.90                       | 3.940                    | 0.215                  | 0.170                     |
| W6 X 12                  | 6.03                       | 4.000                    | 0.280                  | 0.230                     |
| W6 X 15                  | 5.99                       | 5.990                    | 0.260                  | 0.230                     |
| W6 X 16                  | 6.28                       | 4.030                    | 0.405                  | 0.260                     |
| W6 X 20                  | 6.20                       | 6.020                    | 0.365                  | 0.260                     |
| W6 X 25                  | 6.38                       | 6.080                    | 0.455                  | 0.320                     |
| W8 X 10                  | 7.89                       | 3.940                    | 0.205                  | 0.170                     |
| W8 X 13                  | 7.99                       | 4.000                    | 0.255                  | 0.230                     |
| W8 X 15                  | 8.11                       | 4.020                    | 0.315                  | 0.245                     |
| W8 X 18                  | 8.14                       | 5.250                    | 0.330                  | 0.230                     |
| W8 X 21                  | 8.28                       | 5.270                    | 0.400                  | 0.250                     |
| W8 X 24                  | 7.93                       | 6.500                    | 0.400                  | 0.245                     |
| W8 X 28                  | 8.06                       | 6.540                    | 0.465                  | 0.285                     |
| W8 X 31                  | 8.00                       | 8.000                    | 0.435                  | 0.285                     |
| W8 X 35                  | 8.12                       | 8.020                    | 0.495                  | 0.310                     |
| W8 X 40                  | 8.25                       | 8.070                    | 0.560                  | 0.360                     |
| W8 X 48                  | 8.50                       | 8.110                    | 0.685                  | 0.400                     |
| W8 X 58                  | 8.75                       | 8.220                    | 0.810                  | 0.510                     |
| W8 X 67                  | 9.00                       | 8.280                    | 0.935                  | 0.570                     |
| W10 X 12                 | 9.87                       | 3.960                    | 0.210                  | 0.190                     |
| W10 X 15                 | 9.99                       | 4.000                    | 0.270                  | 0.230                     |
| W10 X 17                 | 10.11                      | 4.010                    | 0.330                  | 0.240                     |
| W10 X 19                 | 10.24                      | 4.020                    | 0.395                  | 0.250                     |
| W10 X 22                 | 10.17                      | 5.750                    | 0.360                  | 0.240                     |
| W10 X 26                 | 10.33                      | 5.770                    | 0.440                  | 0.260                     |
| W10 X 30                 | 10.47                      | 5.810                    | 0.510                  | 0.300                     |
| W10 X 33                 | 9.73                       | 7.960                    | 0.435                  | 0.290                     |
| W10 X 39                 | 9.92                       | 7.990                    | 0.530                  | 0.315                     |
| W10 X 45                 | 10.10                      | 8.020                    | 0.620                  | 0.350                     |
| W10 X 49                 | 9.98                       | 10.000                   | 0.560                  | 0.340                     |
| W10 X 54                 | 10.09                      | 10.030                   | 0.615                  | 0.370                     |
| W10 X 60                 | 10.22                      | 10.080                   | 0.680                  | 0.420                     |
| W10 x 68                 | 10.40                      | 10.130                   | 0.770                  | 0.470                     |

# PERFIL WF

Normas ASTM A-992, A572 GRD 50

Producidas en otras medidas y normas

| Medida y<br>Peso por Pie | Pulgadas<br>Alma / Peralte | Pulgadas<br>Alma / Patin | Espesor<br>Ala / Patin | Espesor<br>Alma / Peralte |
|--------------------------|----------------------------|--------------------------|------------------------|---------------------------|
| W10 X 77                 | 10.60                      | 10.190                   | 0.870                  | 0.530                     |
| W10 X 88                 | 10.84                      | 10.265                   | 0.990                  | 0.605                     |
| W10 X 100                | 11.10                      | 10.340                   | 1.120                  | 0.680                     |
| W10 X 112                | 11.36                      | 10.415                   | 1.250                  | 0.755                     |
| W12 X 14                 | 11.91                      | 3.970                    | 0.225                  | 0.200                     |
| W12 X 16                 | 11.99                      | 3.990                    | 0.265                  | 0.220                     |
| W12 X 19                 | 12.16                      | 4.005                    | 0.350                  | 0.235                     |
| W12 X 22                 | 12.31                      | 4.030                    | 0.425                  | 0.260                     |
| W12 X 26                 | 12.22                      | 6.490                    | 0.380                  | 0.230                     |
| W12 X 30                 | 12.34                      | 6.520                    | 0.440                  | 0.260                     |
| W12 X 35                 | 12.50                      | 6.560                    | 0.520                  | 0.300                     |
| W12 X 40                 | 11.94                      | 8.005                    | 0.515                  | 0.295                     |
| W12 X 45                 | 12.06                      | 8.045                    | 0.575                  | 0.335                     |
| W12 X 50                 | 12.19                      | 8.080                    | 0.640                  | 0.370                     |
| W12 X 53                 | 12.06                      | 9.995                    | 0.575                  | 0.345                     |
| W12 X 58                 | 12.19                      | 10.010                   | 0.640                  | 0.360                     |
| W12 X 65                 | 12.12                      | 12.000                   | 0.605                  | 0.390                     |
| W12 X 72                 | 12.25                      | 12.040                   | 0.670                  | 0.430                     |
| W12 X 79                 | 12.38                      | 12.080                   | 0.735                  | 0.470                     |
| W12 X 87                 | 12.53                      | 12.125                   | 0.810                  | 0.515                     |
| W12 X 96                 | 12.71                      | 12.160                   | 0.900                  | 0.550                     |
| W12 X 106                | 12.89                      | 12.220                   | 0.990                  | 0.610                     |
| W12 X 120                | 13.12                      | 12.320                   | 1.105                  | 0.710                     |
| W12 X 136                | 13.41                      | 12.400                   | 1.250                  | 0.790                     |
| W12 X 152                | 13.71                      | 12.480                   | 1.400                  | 0.870                     |
| W12 X 170                | 14.03                      | 12.570                   | 1.560                  | 0.960                     |
| W12 X 190                | 14.38                      | 12.670                   | 1.735                  | 1.060                     |
| W14 X 22                 | 13.74                      | 5.000                    | 0.335                  | 0.230                     |
| W14 X 26                 | 13.91                      | 5.025                    | 0.420                  | 0.255                     |
| W14 X 30                 | 13.84                      | 6.730                    | 0.385                  | 0.270                     |
| W14 X 34                 | 13.98                      | 6.745                    | 0.455                  | 0.285                     |
| W14 X 38                 | 14.10                      | 6.770                    | 0.515                  | 0.310                     |
| W14 X 43                 | 13.66                      | 7.995                    | 0.530                  | 0.305                     |
| W14 X 48                 | 13.79                      | 8.030                    | 0.595                  | 0.340                     |
| W14 X 43                 | 13.66                      | 7.995                    | 0.530                  | 0.305                     |
| W14 X 48                 | 13.79                      | 8.030                    | 0.595                  | 0.340                     |

# PERFIL WF

Normas ASTM A-992, A572 GRD 50  
Producidas en otras medidas y normas

| Medida y<br>Peso por Pie | Pulgadas       |              | Espesor     |                |
|--------------------------|----------------|--------------|-------------|----------------|
|                          | Alma / Peralte | Alma / Patin | Ala / Patin | Alma / Peralte |
| W14 X 53                 | 13.92          | 8.060        | 0.660       | 0.370          |
| W14 X 61                 | 13.90          | 9.995        | 0.645       | 0.375          |
| W14 X 68                 | 14.04          | 10.350       | 0.720       | 0.415          |
| W14 X 74                 | 14.17          | 10.070       | 0.785       | 0.450          |
| W14 X 82                 | 14.31          | 10.130       | 0.855       | 0.510          |
| W14 X 90                 | 14.02          | 14.520       | 0.710       | 0.440          |
| W14 X 99                 | 14.16          | 14.565       | 0.780       | 0.485          |
| W14 X 109                | 14.32          | 14.605       | 0.860       | 0.525          |
| W14 X 120                | 14.48          | 14.670       | 0.940       | 0.590          |
| W14 X 132                | 14.66          | 14.725       | 1.030       | 0.645          |
| W14 X 145                | 17.78          | 15.500       | 1.090       | 0.680          |
| W14 X 159                | 14.98          | 15.565       | 1.190       | 0.745          |
| W14 X 176                | 15.22          | 15.650       | 1.310       | 0.890          |
| W14 X 211                | 15.72          | 15.800       | 1.560       | 0.980          |
| W14 X 233                | 16.04          | 15.890       | 1.720       | 1.070          |
| W14 X 257                | 16.38          | 15.995       | 1.890       | 1.175          |
| W14 X 283                | 16.74          | 16.110       | 2.070       | 1.290          |
| W14 X 311                | 17.12          | 16.230       | 2.260       | 1.410          |
| W14 X 342                | 17.54          | 16.360       | 2.470       | 1.540          |
| W14 X 370                | 17.92          | 16.475       | 2.660       | 1.655          |
| W14 X 398                | 18.29          | 16.590       | 2.845       | 1.770          |
| W14 X 426                | 18.67          | 16.695       | 3.035       | 1.875          |
| W14 X 455                | 19.02          | 16.835       | 3.210       | 2.015          |
| W14 X 500                | 19.60          | 17.010       | 3.500       | 2.190          |
| W16 X 26                 | 15.69          | 5.500        | 0.345       | 0.250          |
| W16 X 31                 | 15.88          | 5.525        | 0.440       | 0.275          |
| W16 X 36                 | 15.86          | 6.985        | 0.430       | 0.295          |
| W16 X 40                 | 16.01          | 6.995        | 0.505       | 0.305          |
| W16 X 45                 | 16.13          | 7.035        | 0.565       | 0.345          |
| W16 X 50                 | 16.26          | 7.070        | 0.630       | 0.380          |
| W16 X 57                 | 16.43          | 7.120        | 0.715       | 0.430          |
| W16 X 67                 | 16.33          | 10.235       | 0.665       | 0.395          |
| W16 X 77                 | 16.52          | 10.295       | 0.760       | 0.455          |
| W16 X 89                 | 16.75          | 10.365       | 0.875       | 0.525          |
| W16 X 100                | 16.97          | 10.425       | 0.985       | 0.585          |
| W18 X 35                 | 17.70          | 6.000        | 0.425       | 0.300          |
| W18 X 40                 | 17.90          | 6.015        | 0.525       | 0.315          |

# PERFIL WF

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Producidas en otras medidas y normas

| Medida y<br>Peso por Pie | Pulgadas<br>Alma / Peralte | Pulgadas<br>Alma / Patin | Espesor<br>Ala / Patin | Espesor<br>Alma / Peralte |
|--------------------------|----------------------------|--------------------------|------------------------|---------------------------|
| W18 X 46                 | 18.06                      | 6.060                    | 0.605                  | 0.360                     |
| W18 X50                  | 17.99                      | 7.495                    | 0.570                  | 0.355                     |
| W18 X 55                 | 18.11                      | 7.530                    | 0.630                  | 0.390                     |
| W18 X 60                 | 18.24                      | 7.555                    | 0.695                  | 0.415                     |
| W18 X 65                 | 18.35                      | 7.590                    | 0.750                  | 0.450                     |
| W18 X 71                 | 18.47                      | 7.635                    | 0.810                  | 0.495                     |
| W18 X 76                 | 18.21                      | 11.035                   | 0.680                  | 0.430                     |
| W18 X 86                 | 18.39                      | 11.090                   | 0.770                  | 0.480                     |
| W18 X 97                 | 18.59                      | 11.145                   | 0.870                  | 0.535                     |
| W18 X 106                | 18.73                      | 11.200                   | 0.940                  | 0.590                     |
| W18 X 119                | 18.97                      | 11.265                   | 1.060                  | 0.655                     |
| W21 X 44                 | 20.66                      | 6.500                    | 0.450                  | 0.350                     |
| W21 X 50                 | 20.83                      | 6.530                    | 0.535                  | 0.380                     |
| W21 X57                  | 21.06                      | 6.555                    | 0.650                  | 0.405                     |
| W21 X 62                 | 20.99                      | 8.240                    | 0.615                  | 0.400                     |
| W21 X 68                 | 21.13                      | 8.270                    | 0.685                  | 0.430                     |
| W21 X 73                 | 21.24                      | 8.295                    | 0.740                  | 0.455                     |
| W21 X 83                 | 21.43                      | 8.355                    | 0.835                  | 0.515                     |
| W21 X 93                 | 21.62                      | 8.420                    | 0.930                  | 0.580                     |
| W21 X 101                | 21.36                      | 12.290                   | 0.800                  | 0.500                     |
| W21 X 111                | 21.51                      | 12.340                   | 0.875                  | 0.550                     |
| W21 X 122                | 21.68                      | 12.390                   | 0.960                  | 0.600                     |
| W21 X 132                | 21.83                      | 12.440                   | 1.035                  | 0.650                     |
| W21 X 147                | 22.06                      | 12.510                   | 1.150                  | 0.720                     |
| W21 X 166                | 22.48                      | 12.420                   | 1.360                  | 0.750                     |
| W24 X 55                 | 23.57                      | 7.005                    | 0.505                  | 0.359                     |
| W24 X 62                 | 23.74                      | 7.040                    | 0.590                  | 0.430                     |
| W24 X 68                 | 23.73                      | 8.965                    | 0.585                  | 0.415                     |
| W24 X 76                 | 23.92                      | 8.990                    | 0.680                  | 0.440                     |
| W24 X 84                 | 24.10                      | 9.020                    | 0.770                  | 0.470                     |
| W24 X 94                 | 24.31                      | 9.065                    | 0.875                  | 0.515                     |
| W24 X 104                | 24.06                      | 12.750                   | 0.750                  | 0.500                     |
| W24 X 117                | 24.26                      | 12.800                   | 0.850                  | 0.550                     |
| W24 X 131                | 24.48                      | 12.855                   | 0.960                  | 0.605                     |
| W24 X 146                | 24.74                      | 12.900                   | 1.090                  | 0.650                     |
| W24 X 162                | 25.00                      | 12.955                   | 1.220                  | 0.705                     |
| W27 X 84                 | 26.71                      | 9.960                    | 0.640                  | 0.460                     |

# PERFIL WF

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| Medida y<br>Peso por Pie | Pulgadas<br>Alma / Peralte | Pulgadas<br>Alma / Patin | Espesor<br>Ala / Patin | Espesor<br>Alma / Peralte |
|--------------------------|----------------------------|--------------------------|------------------------|---------------------------|
| W27 X 94                 | 26.92                      | 9.990                    | 0.745                  | 0.490                     |
| W27 X 102                | 27.09                      | 10.015                   | 0.830                  | 0.515                     |
| W27 X 114                | 27.29                      | 10.070                   | 0.930                  | 0.570                     |
| W27 X 129                | 27.68                      | 10.010                   | 1.100                  | 0.610                     |
| W27 X 146                | 27.38                      | 13.965                   | 0.975                  | 0.605                     |
| W27 X 161                | 27.59                      | 10.020                   | 10.080                 | 0.660                     |
| W27 X 178                | 27.81                      | 14.085                   | 1.190                  | 0.725                     |
| W30 X 99                 | 29.65                      | 10.450                   | 0.670                  | 0.520                     |
| W30 X 108                | 29.83                      | 10.475                   | 0.760                  | 0.545                     |
| W30 X 116                | 30.01                      | 10.495                   | 0.850                  | 0.565                     |
| W30 X 124                | 30.17                      | 10.515                   | 0.930                  | 0.585                     |
| W30 X 132                | 30.31                      | 10.545                   | 1.000                  | 0.615                     |
| W30 X 173                | 30.44                      | 14.985                   | 1.065                  | 0.655                     |
| W30 X 191                | 30.68                      | 15.040                   | 1.185                  | 0.710                     |
| W30 X 211                | 30.94                      | 15.105                   | 1.315                  | 0.775                     |
| W33 X 118                | 32.86                      | 11.480                   | 0.740                  | 0.550                     |
| W33 X 130                | 33.09                      | 11.510                   | 0.855                  | 0.580                     |
| W33 X 141                | 33.30                      | 11.535                   | 0.960                  | 0.605                     |
| W33 X 152                | 33.49                      | 11.565                   | 1.055                  | 0.635                     |
| W33 X 201                | 33.68                      | 15.745                   | 1.150                  | 0.715                     |
| W33 X 221                | 33.93                      | 15.805                   | 1.275                  | 0.775                     |
| W33 X 241                | 34.18                      | 15.860                   | 1.400                  | 0.830                     |
| W36 X 135                | 35.55                      | 11.950                   | 0.790                  | 0.600                     |
| W36 X 150                | 35.85                      | 11.975                   | 0.940                  | 0.625                     |
| W36 X 160                | 36.01                      | 12.000                   | 1.020                  | 0.650                     |
| W36 X 170                | 36.17                      | 12.030                   | 1.100                  | 0.680                     |
| W36 X 182                | 36.33                      | 12.075                   | 1.180                  | 0.725                     |
| W36 X 194                | 36.49                      | 12.115                   | 1.260                  | 0.765                     |
| W36 X 210                | 36.69                      | 12.180                   | 1.360                  | 0.830                     |
| W36 X 230                | 35.90                      | 16.470                   | 1.260                  | 0.760                     |
| W36 X 245                | 36.08                      | 16.510                   | 1.350                  | 0.800                     |
| W36 X 260                | 36.26                      | 16.550                   | 1.440                  | 0.840                     |
| W36 X 280                | 36.52                      | 16.595                   | 1.570                  | 0.885                     |
| W36 X 300                | 36.74                      | 16.655                   | 1.680                  | 0.945                     |
| W36 X 328                | 37.09                      | 16.630                   | 1.850                  | 1.020                     |
| W36 X 359                | 37.40                      | 16.730                   | 2.010                  | 1.120                     |

# CHANNELS STRUCTURAL

ASTM – 36 y DUAL A-36/A-572 GRADO 50

Producidas en otras medidas y normas

| Pulgadas<br>Alma / Peralte | Pulgadas<br>Alma / Patin | Pulgadas<br>Espesor | Libras por<br>pie | Peso en 20<br>pies | Peso en 40<br>pies |
|----------------------------|--------------------------|---------------------|-------------------|--------------------|--------------------|
| 3                          | 1.355                    | 0.125               | 3.50              | 70                 | 140                |
| 3                          | 1.410                    | 0.170               | 4.10              | 82                 | 164                |
| 3                          | 1.498                    | 0.258               | 5.00              | 100                | 200                |
| 3                          | 1.596                    | 0.356               | 6.00              | 120                | 240                |
| 4                          | 1.560                    | 0.125               | 4.50              | 90                 | 180                |
| 4                          | 1.580                    | 0.180               | 5.40              | 108                | 216                |
| 4                          | 1.647                    | 0.247               | 6.25              | 125                | 250                |
| 4                          | 1.721                    | 0.321               | 7.25              | 145                | 290                |
| 5                          | 1.750                    | 0.190               | 6.70              | 134                | 268                |
| 5                          | 1.885                    | 0.325               | 9.00              | 180                | 360                |
| 6                          | 1.920                    | 0.200               | 8.20              | 164                | 328                |
| 6                          | 2.034                    | 0.314               | 10.50             | 210                | 420                |
| 6                          | 2.157                    | 0.437               | 13.00             | 260                | 520                |
| 7                          | 2.090                    | 2.100               | 9.80              | 196                | 392                |
| 7                          | 2.194                    | 0.314               | 12.25             | 245                | 490                |
| 7                          | 2.299                    | 0.419               | 14.75             | 295                | 590                |
| 8                          | 2.260                    | 0.220               | 11.50             | 230                | 460                |
| 8                          | 2.343                    | 0.303               | 13.75             | 275                | 550                |
| 8                          | 2.527                    | 0.487               | 18.75             | 375                | 750                |
| 9                          | 2.430                    | 0.230               | 13.40             | 268                | 536                |
| 9                          | 2.485                    | 0.285               | 15.00             | 300                | 600                |
| 9                          | 2.648                    | 0.448               | 20.00             | 400                | 800                |
| 10                         | 2.600                    | 0.240               | 15.30             | 306                | 612                |
| 10                         | 2.739                    | 0.379               | 20.00             | 400                | 800                |
| 10                         | 2.880                    | 0.526               | 25.00             | 500                | 1000               |
| 10                         | 3.033                    | 0.673               | 30.00             | 600                | 1200               |
| 12                         | 2.940                    | 0.280               | 20.70             | 414                | 828                |
| 12                         | 3.047                    | 0.380               | 25.00             | 500                | 1000               |
| 12                         | 3.170                    | 0.510               | 30.00             | 600                | 1200               |
| 15                         | 3.400                    | 0.400               | 33.90             | 678                | 1356               |
| 15                         | 3.520                    | 0.520               | 40.00             | 800                | 1600               |
| 15                         | 3.716                    | 0.716               | 50.00             | 1000               | 2000               |

# MISC. CHANNELS

ASTM – 36 y DUAL A-36/A-572 GRADO 50

Producidas en otras medidas y normas

| Medida x<br>peso/pie | Pulgadas<br>Alma / Peralte | Pulgadas<br>Alma / Patin | Pulgadas<br>Espesor | Libras<br>por pie | Peso en<br>20 pies | Peso en<br>40 pies | Peso en<br>60 pies |
|----------------------|----------------------------|--------------------------|---------------------|-------------------|--------------------|--------------------|--------------------|
| 3 x 7.1              | 3                          | 1.938                    | 0.312               | 7.10              | 142                | 284                | 426                |
| 4 x 13.8             | 4                          | 2.500                    | 0.500               | 13.80             | 276                | 552                | 828                |
| 6 x 12.0             | 6                          | 2.497                    | 0.310               | 12.00             | 240                | 480                | 720                |
| 6 x 15.1             | 6                          | 2.938                    | 0.313               | 15.10             | 302                | 604                | 906                |
| 6 x 15.3             | 6                          | 3.500                    | 0.340               | 15.30             | 306                | 612                | 918                |
| 6 x 16.3             | 6                          | 3.000                    | 0.375               | 16.30             | 326                | 652                | 978                |
| 6 x 18.0             | 6                          | 3.504                    | 0.379               | 18.00             | 360                | 720                | 1080               |
| 7 x 19.1             | 7                          | 3.452                    | 0.352               | 19.10             | 382                | 764                | 1146               |
| 7 x 22.7             | 7                          | 3.603                    | 0.503               | 22.70             | 454                | 908                | 1362               |
| 8 x 8.5              | 8                          | 1.874                    | 0.179               | 8.50              | 170                | 340                | 510                |
| 8 x 18.7             | 8                          | 2.978                    | 0.353               | 18.70             | 374                | 748                | 1122               |
| 8 x 20.0             | 8                          | 3.025                    | 0.400               | 20.00             | 400                | 800                | 1200               |
| 8 x 21.4             | 8                          | 3.450                    | 0.375               | 21.40             | 428                | 856                | 1284               |
| 8 x 22.8             | 8                          | 3.502                    | 0.427               | 22.80             | 456                | 912                | 1368               |
| 9 x 23.9             | 9                          | 3.450                    | 0.400               | 23.90             | 478                | 956                | 1434               |
| 9 x 25.4             | 9                          | 3.500                    | 0.450               | 25.40             | 508                | 1016               | 1524               |
| 10 x 6.5             | 10                         | 1.127                    | 0.152               | 6.50              | 130                | 260                | 390                |
| 10 x 8.4             | 10                         | 1.500                    | 0.170               | 8.40              | 168                | 336                | 504                |
| 10 x 22.0            | 10                         | 3.500                    | 0.312               | 22.00             | 440                | 88                 | 1320               |
| 10 x 25.0            | 10                         | 2.886                    | 0.526               | 25.00             | 500                | 1000               | 1500               |
| 10 x 28.5            | 10                         | 3.950                    | 0.425               | 28.50             | 570                | 1140               | 1710               |
| 10 x 33.6            | 10                         | 4.100                    | 0.575               | 33.60             | 672                | 1344               | 2016               |
| 10 x 41.1            | 10                         | 4.321                    | 0.796               | 41.10             | 822                | 1644               | 2466               |
| 12 x 10.6            | 12                         | 1.500                    | 0.190               | 10.60             | 212                | 424                | 636                |
| 12 x 31.0            | 12                         | 3.670                    | 0.370               | 31.00             | 620                | 1240               | 1860               |
| 12 x 35.0            | 12                         | 3.767                    | 0.467               | 35.00             | 700                | 1400               | 2100               |
| 12 x 40.0            | 12                         | 3.890                    | 0.590               | 50.00             | 800                | 1600               | 2400               |
| 12 x 45.0            | 12                         | 4.012                    | 0.712               | 45.00             | 900                | 1800               | 2700               |
| 12 x 50.0            | 12                         | 4.135                    | 0.835               | 50.00             | 1000               | 2000               | 3000               |
| 13 x 31.8            | 13                         | 4.000                    | 0.375               | 31.80             | 636                | 1272               | 1908               |
| 13 x 35.0            | 13                         | 4.072                    | 0.447               | 35.00             | 700                | 1400               | 2100               |
| 13 x 40.0            | 13                         | 4.185                    | 0.560               | 40.00             | 800                | 1600               | 2400               |
| 13 x 50.0            | 13                         | 4.120                    | 0.787               | 50.00             | 1000               | 2000               | 3000               |
| 18 x 42.7            | 18                         | 3.950                    | 0.450               | 42.70             | 854                | 1708               | 2562               |
| 18 x 45.8            | 18                         | 4.000                    | 0.500               | 45.80             | 916                | 1832               | 2748               |
| 18 x 51.9            | 18                         | 4.100                    | 0.600               | 51.90             | 1038               | 2076               | 3114               |
| 18 x 58.0            | 18                         | 4.200                    | 0.700               | 58.00             | 1160               | 2320               | 3480               |

# TUBERÍA CUADRADA

Normas ASTM A500 GRD A Y B

Producidas en otras medidas y normas

| Medidas en pulgadas | Calibre | Espesor | Libras por pie |
|---------------------|---------|---------|----------------|
| 1-3/4 x 1-3/4       | 14      | 0.083   | 1.88           |
|                     | 1/8     | 0.125   | 2.66           |
| 2 x 2               | 16      | 0.065   | 1.71           |
|                     | 14      | 0.083   | 2.16           |
|                     | 12      | 0.109   | 2.80           |
|                     | 1/8     | 0.125   | 3.05           |
|                     | 3/16    | 0.188   | 4.32           |
|                     | 1/4     | 0.250   | 5.41           |
| 2-1/2 x 2-1/2       | 14      | 0.083   | 2.73           |
|                     | 1/8     | 0.125   | 3.90           |
|                     | 3/16    | 0.188   | 5.59           |
|                     | 1/4     | 0.250   | 7.11           |
| 3 x 3               | 14      | 0.083   | 3.29           |
|                     | 1/8     | 0.125   | 4.75           |
|                     | 3/16    | 0.188   | 6.87           |
|                     | 1/4     | 0.250   | 8.81           |
|                     | 5/16    | 0.312   | 10.58          |
|                     | 3/8     | 0.375   | 12.17          |
| 3-1/2 x 3-1/2       | 1/8     | 0.120   | 5.61           |
|                     | 3/16    | 0.188   | 8.15           |
|                     | 1/4     | 0.250   | 10.51          |
|                     | 5/16    | 0.312   | 12.70          |
| 4 x 4               | 14      | 0.083   | 4.42           |
|                     | 1/8     | 0.125   | 6.46           |
|                     | 3/16    | 0.188   | 9.42           |
|                     | 1/4     | 0.250   | 12.21          |
|                     | 5/16    | 0.312   | 14.83          |
|                     | 3/8     | 0.375   | 17.27          |
|                     | 1/2     | 0.500   | 21.63          |
| 4-1/2 x 4-1/2       | 1/8     | 0.125   | 7.31           |
|                     | 3/16    | 0.188   | 10.70          |
|                     | 1/4     | 0.250   | 13.91          |
|                     | 5/16    | 0.312   | 16.96          |
|                     | 3/8     | 0.375   | 19.82          |
| 5 x 5               | 1/8     | 0.125   | 8.16           |
|                     | 3/16    | 0.188   | 11.97          |
|                     | 1/4     | 0.250   | 15.62          |
|                     | 5/16    | 0.312   | 19.08          |
|                     | 3/8     | 0.375   | 22.37          |
|                     | 1/2     | 0.500   | 28.43          |

# TUBERÍA CUADRADA

Normas ASTM A500 GRD A Y B

Producidas en otras medidas y normas

| Medidas en pulgadas | Calibre | Espesor | Libras por pie |
|---------------------|---------|---------|----------------|
| 6 x 6               | 1/8     | 0.125   | 10.08          |
|                     | 3/16    | 0.188   | 14.53          |
|                     | 1/4     | 0.250   | 19.02          |
|                     | 5/16    | 0.312   | 23.34          |
|                     | 3/8     | 0.375   | 27.48          |
|                     | 1/2     | 0.500   | 35.24          |
|                     | 5/8     | 0.625   | 42.30          |
| 7 x 7               | 3/16    | 0.188   | 17.08          |
|                     | 1/4     | 0.250   | 22.42          |
|                     | 5/16    | 0.312   | 27.59          |
|                     | 3/8     | 0.375   | 32.58          |
|                     | 1/2     | 0.500   | 42.05          |
|                     | 5/8     | 0.625   | 50.81          |
| 8 x 8               | 3/16    | 0.188   | 19.63          |
|                     | 1/4     | 0.250   | 25.82          |
|                     | 5/16    | 0.312   | 31.84          |
|                     | 3/8     | 0.375   | 37.69          |
|                     | 1/2     | 0.500   | 48.85          |
|                     | 5/8     | 0.625   | 59.32          |
| 10 x 10             | 3/16    | 0.188   | 24.73          |
|                     | 1/4     | 0.250   | 32.63          |
|                     | 5/16    | 0.312   | 40.35          |
|                     | 3/8     | 0.375   | 47.90          |
|                     | 1/2     | 0.500   | 62.46          |
|                     | 5/8     | 0.625   | 76.33          |
| 12 x 12             | 1/4     | 0.250   | 39.43          |
|                     | 5/16    | 0.312   | 48.86          |
|                     | 3/8     | 0.375   | 58.10          |
|                     | 1/2     | 0.500   | 76.07          |
|                     | 5/8     | 0.625   | 93.34          |
| 14 x 14             | 5/16    | 0.312   | 57.36          |
|                     | 3/8     | 0.375   | 68.31          |
|                     | 1/2     | 0.500   | 89.68          |
| 16 x 16             | 5/16    | 0.312   | 65.87          |
|                     | 3/8     | 0.375   | 78.52          |
|                     | 1/2     | 0.500   | 103.30         |

# TUBERÍA RECTANGULAR

Normas ASTM A500 GRD A Y B

Producidas en otras medidas y normas

| Medidas en pulgadas | Calibre | Espesor | Libras por pie |
|---------------------|---------|---------|----------------|
| 1 -1/2 x 1          | 16      | 0.065   | 1.047          |
|                     | 14      | 0.083   | 1.317          |
|                     | 1/8     | 0.125   | 1.844          |
| 2 x 1               | 16      | 0.065   | 1.268          |
|                     | 14      | 0.083   | 1.599          |
|                     | 1/8     | 0.125   | 5.252          |
| 2 x 1-1/4           | 14      | 0.083   | 1.741          |
|                     | 1/8     | 0.125   | 2.456          |
| 2 x 1-1/2           | 1/8     | 0.125   | 2.660          |
|                     | 14      | 0.083   | 1.882          |
| 2-1/2 x 1-1/2       | 14      | 0.083   | 2.164          |
|                     | 1/8     | 0.125   | 3.050          |
|                     | 3/16    | 0.188   | 4.320          |
|                     | 1/4     | 0.250   | 5.410          |
| 3 x 1               | 16      | 0.065   | 1.710          |
|                     | 14      | 0.083   | 2.164          |
|                     | 1/8     | 0.125   | 3.050          |
| 3 x 1-1/2           | 16      | 0.065   | 1.932          |
|                     | 14      | 0.083   | 2.450          |
|                     | 1/8     | 0.125   | 3.48           |
|                     | 3/16    | 0.188   | 4.960          |
| 3 x 2               | 14      | 0.830   | 2.730          |
|                     | 1/8     | 0.125   | 3.900          |
|                     | 3/16    | 0.188   | 5.590          |
|                     | 1/4     | 0.250   | 7.110          |
|                     | 5/16    | 0.312   | 8.450          |
| 3-1/2 x 1-1/2       | 14      | 0.083   | 2.730          |
| 4 x 2               | 1/8     | 0.125   | 4.750          |
|                     | 3/16    | 0.188   | 6.870          |
|                     | 1/4     | 0.250   | 8.810          |
|                     | 5/16    | 0.312   | 10.580         |
|                     | 3/8     | 0.375   | 12.170         |

# TUBERÍA RECTANGULAR

Normas ASTM A500 GRD A Y B

Producidas en otras medidas y normas

| Medidas en pulgadas | Calibre | Espesor | Libras por pie |
|---------------------|---------|---------|----------------|
| 4 x 3               | 1/8     | 0.125   | 5.61           |
|                     | 3/16    | 0.188   | 8.15           |
|                     | 1/4     | 0.250   | 10.51          |
|                     | 5/16    | 0.312   | 12.70          |
|                     | 3/8     | 0.375   | 14.72          |
| 5 x 2               | 1/8     | 0.125   | 5.61           |
|                     | 3/16    | 0.188   | 8.15           |
|                     | 1/4     | 0.250   | 10.51          |
|                     | 5/16    | 0.312   | 12.70          |
| 5 x 3               | 1/8     | 0.125   | 3.46           |
|                     | 3/16    | 0.188   | 9.42           |
|                     | 1/4     | 0.250   | 12.21          |
|                     | 5/16    | 0.312   | 14.83          |
|                     | 3/8     | 0.375   | 17.27          |
|                     | 1/2     | 0.500   | 21.63          |
| 5 x 4               | 3/16    | 0.188   | 10.70          |
|                     | 1/4     | 0.250   | 13.91          |
|                     | 5/16    | 0.312   | 16.96          |
|                     | 3/8     | 0.375   | 19.82          |
| 6 x 2               | 1/8     | 0.125   | 6.46           |
|                     | 3/16    | 0.188   | 9.42           |
|                     | 1/4     | 0.250   | 12.21          |
|                     | 5/16    | 0.312   | 14.83          |
|                     | 3/8     | 0.375   | 17.27          |
| 6 x 3               | 3/16    | 0.188   | 10.70          |
|                     | 1/4     | 0.250   | 13.91          |
|                     | 5/16    | 0.312   | 16.96          |
|                     | 3/8     | 0.375   | 19.82          |
|                     | 1/2     | 0.500   | 25.03          |
| 6 x 4               | 1/8     | 0.125   | 7.964          |
|                     | 3/16    | 0.188   | 11.97          |
|                     | 1/4     | 0.250   | 15.62          |
|                     | 5/16    | 0.312   | 19.08          |
|                     | 3/8     | 0.375   | 22.37          |
|                     | 1/2     | 0.500   | 28.43          |

# TUBERÍA RECTANGULAR

Normas ASTM A500 GRD A Y B

Producidas en otras medidas y normas

| Medidas en pulgadas | Calibre | Espesor | Libras por pie |
|---------------------|---------|---------|----------------|
| 7 x 3               | 3/16    | 0.188   | 11.97          |
|                     | 1/4     | 0.250   | 15.62          |
|                     | 5/16    | 0.312   | 19.08          |
|                     | 3/8     | 0.375   | 22.37          |
| 7 x 4               | 3/16    | 0.188   | 13.25          |
|                     | 1/4     | 0.250   | 17.32          |
|                     | 5/16    | 0.312   | 21.21          |
|                     | 3/8     | 0.375   | 24.93          |
| 7 x 5               | 3/16    | 0.188   | 14.53          |
|                     | 1/4     | 0.250   | 19.02          |
|                     | 5/16    | 0.312   | 23.34          |
|                     | 3/8     | 0.375   | 27.48          |
|                     | 1/2     | 0.500   | 35.24          |
| 8 x 2               | 3/16    | 0.188   | 11.97          |
|                     | 1/4     | 0.250   | 15.62          |
|                     | 3/8     | 0.375   | 22.37          |
| 8 x 3               | 3/16    | 0.188   | 13.25          |
|                     | 1/4     | 0.250   | 17.32          |
|                     | 5/16    | 0.312   | 21.21          |
|                     | 3/8     | 0.375   | 24.93          |
|                     | 1/2     | 0.500   | 21.84          |
| 8 x 4               | 1/8     | 0.125   | 10.08          |
|                     | 3/16    | 0.188   | 14.53          |
|                     | 1/4     | 0.250   | 19.02          |
|                     | 5/16    | 0.312   | 23.34          |
|                     | 3/8     | 0.375   | 27.48          |
|                     | 1/2     | 0.500   | 35.24          |
|                     | 5/8     | 0.625   | 42.30          |
| 8 x 6               | 3/16    | 0.188   | 17.08          |
|                     | 1/4     | 0.250   | 22.42          |
|                     | 5/16    | 0.312   | 27.59          |
|                     | 3/8     | 0.375   | 32.58          |
|                     | 1/2     | 0.500   | 42.05          |
| 10 x 2              | 3/16    | 0.188   | 14.53          |
|                     | 1/4     | 0.250   | 19.02          |

# TUBERÍA RECTANGULAR

Normas ASTM A500 GRD A Y B

Producidas en otras medidas y normas

| Medidas en pulgadas | Calibre | Espesor | Libras por pie |
|---------------------|---------|---------|----------------|
| 10 x 4              | 3/16    | 0.188   | 17.09          |
|                     | 1/4     | 0.250   | 22.42          |
|                     | 5/16    | 0.312   | 27.59          |
|                     | 3/8     | 0.375   | 32.58          |
|                     | 1/2     | 0.500   | 42.05          |
| 10 x 5              | 3/16    | 0.188   | 18.35          |
|                     | 1/4     | 0.250   | 24.12          |
|                     | 5/16    | 0.312   | 29.72          |
|                     | 3/8     | 0.375   | 31.13          |
| 10 x 6              | 3/16    | 0.188   | 19.63          |
|                     | 1/4     | 0.250   | 25.82          |
|                     | 5/16    | 0.312   | 31.84          |
|                     | 3/8     | 0.375   | 37.69          |
|                     | 1/2     | 0.500   | 48.85          |
| 10 x 8              | 3/16    | 0.188   | 22.18          |
|                     | 1/4     | 0.250   | 29.29          |
|                     | 5/16    | 0.312   | 36.38          |
|                     | 3/8     | 0.375   | 42.79          |
|                     | 1/2     | 0.500   | 55.66          |
| 12 x 2              | 3/16    | 0.188   | 17.08          |
|                     | 1/4     | 0.250   | 22.42          |
|                     | 3/8     | 0.375   | 32.58          |
| 12 x 4              | 3/16    | 0.188   | 19.63          |
|                     | 1/4     | 0.250   | 25.82          |
|                     | 5/16    | 0.312   | 31.84          |
|                     | 3/8     | 0.375   | 37.69          |
|                     | 1/2     | 0.500   | 48.85          |
|                     | 5/8     | 0.625   | 59.32          |
| 12 x 6              | 3/16    | 0.188   | 22.18          |
|                     | 1/4     | 0.250   | 29.23          |
|                     | 5/16    | 0.312   | 36.10          |
|                     | 3/8     | 0.375   | 42.79          |
|                     | 1/2     | 0.500   | 55.66          |
|                     | 5/8     | 0.625   | 67.82          |

# TUBERÍA RECTANGULAR

Normas ASTM A500 GRD A Y B

Producidas en otras medidas y normas

| Medidas en pulgadas | Calibre | Espesor | Libras por pie |
|---------------------|---------|---------|----------------|
| 12 x 8              | 3/16    | 0.188   | 24.73          |
|                     | 1/4     | 0.250   | 32.63          |
|                     | 5/16    | 0.312   | 40.35          |
|                     | 3/8     | 0.375   | 47.90          |
|                     | 1/2     | 0.500   | 62.46          |
| 12 x 10             | 1/4     | 0.250   | 36.03          |
|                     | 5/16    | 0.312   | 44.60          |
|                     | 3/8     | 0.375   | 53.00          |
|                     | 1/2     | 0.500   | 69.27          |
| 14 x 4              | 3/8     | 0.375   | 42.80          |
|                     | 1/2     | 0.500   | 55.66          |
| 14 x 6              | 1/4     | 0.250   | 32.63          |
|                     | 5/16    | 0.312   | 40.35          |
|                     | 3/8     | 0.375   | 47.90          |
|                     | 1/2     | 0.500   | 62.46          |
|                     | 5/8     | 0.625   | 76.33          |
| 14 x 10             | 5/16    | 0.312   | 48.86          |
|                     | 3/8     | 0.375   | 58.10          |
|                     | 1/2     | 0.500   | 76.07          |
| 16 x 8              | 5/16    | 0.312   | 48.86          |
|                     | 3/8     | 0.375   | 58.10          |
|                     | 1/2     | 0.500   | 76.07          |
| 16 x 12             | 5/16    | 0.312   | 57.36          |
|                     | 3/8     | 0.375   | 68.31          |
|                     | 1/2     | 0.500   | 89.68          |
| 18 x 6              | 1/4     | 0.250   | 39.43          |
|                     | 5/16    | 0.312   | 48.86          |
|                     | 3/8     | 0.375   | 58.10          |
|                     | 1/2     | 0.500   | 76.07          |
| 28 x 8              | 5/16    | 0.312   | 57.36          |
|                     | 3/8     | 0.375   | 68.31          |
|                     | 1/2     | 0.500   | 89.68          |
| 20 x 12             | 5/16    | 0.312   | 65.87          |
|                     | 3/8     | 0.375   | 78.52          |
|                     | 1/2     | 0.500   | 103.30         |

# TUBERÍA REDONDA

Normas ASTM 53 Grado B

Producidas en otras medidas y normas

| Medidas en pulgadas | Diametro Externo | I.P.S. Schedule | Espesor de Pared | Diametro Interno | Libras por Pie |
|---------------------|------------------|-----------------|------------------|------------------|----------------|
| 1/8                 | 0.41             | 10 S            | 0.049            | 0.307            | 0.186          |
|                     |                  | 40 S            | 0.068            | 0.269            | 0.244          |
|                     |                  | 80 EX HVY       | 0.095            | 0.215            | 0.314          |
| 1/4                 | 0.54             | 10 S            | 0.065            | 0.410            | 0.329          |
|                     |                  | 40 S            | 0.088            | 0.364            | 0.424          |
|                     |                  | 80 EX HVY       | 0.119            | 0.302            | 0.535          |
| 3/8                 | 0.68             | 10 S            | 0.065            | 0.545            | 0.423          |
|                     |                  | 40 S            | 0.091            | 0.493            | 0.567          |
|                     |                  | 80 EX HVY       | 0.126            | 0.423            | 0.738          |
| 1/2                 | 0.84             | 10 S            | 0.083            | 0.674            | 0.671          |
|                     |                  | 40 STD          | 0.109            | 0.622            | 0.851          |
|                     |                  | 80 Ex hvy       | 0.147            | 0.546            | 1.088          |
|                     |                  | 160 X hvy       | 0.187            | 0.466            | 1.304          |
|                     |                  | X hvy           | 0.294            | 0.252            | 1.714          |
| 3/4                 | 1.05             | 5 S             | 0.065            | 0.920            | 0.683          |
|                     |                  | 40 S std        | 0.113            | 0.824            | 1.131          |
|                     |                  | 80 Ex hvy       | 0.154            | 0.742            | 1.474          |
|                     |                  | 160 X hvy       | 0.218            | 0.614            | 1.937          |
| 1                   | 1.32             | 10 S            | 0.109            | 1.097            | 1.404          |
|                     |                  | 40 S Std        | 0.133            | 1.049            | 1.679          |
|                     |                  | 80 Ex hvy       | 0.179            | 0.957            | 2.172          |
|                     |                  | 160 X hvy       | 0.250            | 0.815            | 2.844          |
|                     |                  | X hvy           | 0.358            | 0.599            | 3.659          |
| 1 1/4               | 1.66             | 5 S             | 0.065            | 1.530            | 1.107          |
|                     |                  | 10 S            | 0.109            | 1.442            | 1.806          |
|                     |                  | 40 S std        | 0.140            | 1.380            | 2.273          |
|                     |                  | 80 Ex hvy       | 0.191            | 1.278            | 2.997          |
|                     |                  | 160 X hvy       | 0.250            | 1.160            | 3.765          |
|                     |                  | X hvy           | 0.382            | 0.896            | 5.214          |

# TUBERÍA REDONDA

Normas ASTM 53 Grado B

Producidas en otras medidas y normas

| Medidas en pulgadas | Diametro Externo | I.P.S. Schedule | Espesor de Pared | Diametro Interno | Libras por Pie |
|---------------------|------------------|-----------------|------------------|------------------|----------------|
| 1 1/2               | 1.90             | 10 S            | 0.109            | 1.682            | 2.085          |
|                     |                  | 40 S std        | 0.145            | 1.610            | 2.718          |
|                     |                  | 80 Ex hvy       | 0.200            | 1.500            | 6.631          |
|                     |                  | 160 X hvy       | 0.281            | 1.338            | 4.859          |
|                     |                  | X hvy           | 0.400            | 1.100            | 6.408          |
| 2                   | 2.38             | 5 S             | 0.650            | 2.245            | 1.604          |
|                     |                  | 10 S            | 0.109            | 2.157            | 2.638          |
|                     |                  | 40 S std        | 0.154            | 2.067            | 3.653          |
|                     |                  | 80 Ex hvy       | 0.218            | 1.939            | 5.022          |
|                     |                  | 160 X hvy       | 0.343            | 1.689            | 7.444          |
|                     |                  | X hvy           | 0.436            | 1.503            | 9.029          |
| 2 1/2               | 2.88             | 5 S             | 0.083            | 2.709            | 2.475          |
|                     |                  | 10 S            | 0.120            | 2.635            | 3.531          |
|                     |                  | 40 Std          | 0.203            | 2.469            | 5.793          |
|                     |                  | 80 Ex hvy       | 0.276            | 2.323            | 7.661          |
|                     |                  | 160 X hvy       | 0.375            | 2.125            | 10.01          |
|                     |                  | X hvy           | 0.552            | 1.771            | 13.690         |
| 3                   | 3.50             | 10 S            | 0.120            | 3.260            | 4.332          |
|                     |                  | 40 Std          | 0.216            | 3.068            | 7.576          |
|                     |                  | 80 Ex hvy       | 0.30             | 2.90             | 10.25          |
|                     |                  | 160 X hvy       | 0.438            | 2.624            | 14.32          |
|                     |                  | X hvy           | 0.600            | 2.300            | 18.58          |
| 3 1/2               | 4.00             | 5 S             | 0.083            | 3.834            | 3.472          |
|                     |                  | 10 S            | 0.120            | 3.760            | 4.973          |
|                     |                  | 40 Std          | 0.226            | 3.548            | 9.109          |
|                     |                  | 80 Ex hvy       | 0.318            | 3.364            | 12.50          |
| 4                   | 4.50             | 5 S             | 0.083            | 4.334            | 3.915          |
|                     |                  | 10 S            | 0.120            | 4.260            | 5.613          |
|                     |                  | 40 Std          | 0.237            | 4.026            | 10.79          |
|                     |                  | 80 Ex hvy       | 0.337            | 3.826            | 14.98          |
|                     |                  | 120             | 0.438            | 3.624            | 19.00          |
|                     |                  | 160             | 0.531            | 3.438            | 22.51          |
|                     |                  | X hvy           | 0.674            | 3.152            | 27.54          |

# TUBERÍA REDONDA

Normas ASTM 53 Grado B

Producidas en otras medidas y normas

| Medida en<br>Pulgadas | Diametro<br>Externo | I.P.S<br>Schedule | Espesor de<br>Pared | Diametro<br>Interno | Libras por<br>Pie |
|-----------------------|---------------------|-------------------|---------------------|---------------------|-------------------|
| 5                     | 5.56                | 5 S               | 0.109               | 5.345               | 6.349             |
|                       |                     | 10 S              | 0.134               | 5.295               | 7.770             |
|                       |                     | 40 Std            | 0.258               | 5.047               | 14.62             |
|                       |                     | 80 Ex hvy         | 0.375               | 4.813               | 20.78             |
|                       |                     | 120               | 0.500               | 4.563               | 27.04             |
|                       |                     | 160               | 0.625               | 4.313               | 32.96             |
|                       |                     | X hvy             | 0.750               | 4.063               | 38.55             |
| 6                     | 6.63                | 5 Std             | 0.109               | 6.407               | 7.59              |
|                       |                     | 10 Std            | 0.134               | 6.357               | 9.29              |
|                       |                     | 40 Std            | 0.280               | 6.056               | 18.97             |
|                       |                     | 80S Ex hvy        | 0.432               | 5.761               | 28.57             |
|                       |                     | 120               | 0.562               | 5.491               | 36.39             |
|                       |                     | 160               | 0.718               | 5.189               | 45.30             |
|                       |                     | Ex hvy            | 0.864               | 4.987               | 53.16             |
| 8                     | 8.63                | 5 Std             | 0.109               | 8.407               | 9.91              |
|                       |                     | 10 Std            | 0.148               | 8.329               | 13.40             |
|                       |                     | 20 Std            | 0.250               | 8.125               | 22.36             |
|                       |                     | 30 Std            | 0.277               | 8.071               | 24.70             |
|                       |                     | 40 Std            | 0.322               | 7.981               | 28.55             |
|                       |                     | 60 Std            | 0.406               | 7.813               | 35.64             |
|                       |                     | 80 Std Ex hvy     | 0.500               | 7.625               | 43.39             |
|                       |                     | 100               | 0.593               | 7.439               | 50.89             |
|                       |                     | 120               | 0.718               | 7.189               | 60.93             |
|                       |                     | 140               | 0.812               | 7.001               | 67.76             |
|                       |                     | XX HVY            | 0.875               | 6.875               | 72.42             |
|                       |                     | 160               | 0.906               | 6.813               | 74.69             |
| 10                    | 10.75               | 5 Std             | 0.134               | 10.482              | 15.19             |
|                       |                     | 10 Std            | 0.165               | 10.420              | 18.70             |
|                       |                     | 20 Std            | 0.250               | 10.250              | 28.04             |
|                       |                     | 30 Std            | 0.307               | 10.136              | 34.24             |
|                       |                     | 40 Std            | 0.365               | 10.020              | 40.48             |
|                       |                     | 60 Ex hvy         | 0.500               | 9.750               | 54.74             |
|                       |                     | 80                | 0.593               | 9.564               | 64.33             |
|                       |                     | 100               | 0.718               | 9.220               | 76.93             |
|                       |                     | 120               | 0.843               | 9.064               | 89.20             |
|                       |                     | XX HVY            | 1.000               | 8.750               | 104.10            |
|                       |                     | 160               | 1.125               | 8.500               | 115.70            |

# TUBERÍA REDONDA

Normas ASTM 53 Grado B

Producidas en otras medidas y normas

| Medidas en pulgadas | Diametro Externo | I.P.S. Schedule | Espesor de Pared | Diametro Interno | Libras por Pie |
|---------------------|------------------|-----------------|------------------|------------------|----------------|
| 12                  | 12.75            | 5 Std           | 0.17             | 12.42            | 22.18          |
|                     |                  | 10 Std          | 0.18             | 12.39            | 24.20          |
|                     |                  | 20              | 0.25             | 12.25            | 33.38          |
|                     |                  | 30              | 0.33             | 12.09            | 43.77          |
|                     |                  | 40 Std          | 0.38             | 12.00            | 49.56          |
|                     |                  | 40              | 0.41             | 11.94            | 53.53          |
|                     |                  | 80 Ex hvy       | 0.50             | 11.75            | 65.42          |
|                     |                  | 60              | 0.56             | 11.63            | 73.16          |
|                     |                  | 80              | 0.69             | 11.376           | 88.51          |
|                     |                  | 100             | 0.84             | 11.06            | 107.2          |
|                     |                  | 120             | 1.00             | 10.75            | 125.50         |
|                     |                  | 140             | 1.13             | 10.5             | 139.7          |
|                     |                  | 160             | 1.31             | 10.126           | 160.3          |
| 14                  | 14.00            | 10              | 0.25             | 13.5             | 36.71          |
|                     |                  | 20              | 0.31             | 13.376           | 45.68          |
|                     |                  | 30 Std          | 0.38             | 13.25            | 54.57          |
|                     |                  | 40              | 0.44             | 13.124           | 63.37          |
|                     |                  | Ex hvy          | 0.50             | 13               | 72.09          |
|                     |                  | 60              | 0.59             | 12.814           | 84.91          |
|                     |                  | 80              | 0.75             | 12.5             | 106.1          |
|                     |                  | 100             | 0.94             | 12.126           | 130.7          |
|                     |                  | 120             | 1.09             | 11.814           | 150.7          |
|                     |                  | 140             | 1.25             | 11.5             | 170.2          |
|                     |                  | 160             | 1.41             | 11.188           | 189.1          |
| 16                  | 16.00            | 10              | 0.25             | 15.5             | 42.05          |
|                     |                  | 20              | 0.31             | 15.376           | 52.36          |
|                     |                  | 30 Std          | 0.38             | 15.25            | 62.58          |
|                     |                  | 40 Ex hvy       | 0.50             | 15               | 82.77          |
|                     |                  | 60              | 0.66             | 14.688           | 107.50         |
|                     |                  | 80              | 0.84             | 14.31            | 136.50         |
|                     |                  | 100             | 1.03             | 13.938           | 164.8          |
|                     |                  | 120             | 1.22             | 13.564           | 192.3          |
|                     |                  | 140             | 1.44             | 13.124           | 223.5          |
|                     |                  | 160             | 1.593            | 12.814           | 245.1          |

# TUBERÍA REDONDA

Normas ASTM 53 Grado B

Producidas en otras medidas y normas

| Medida en pulgadas | Diametro Externo | I.P.S. Schedule | Espesor de Pared | Diametro Interno | Libras por Pie |
|--------------------|------------------|-----------------|------------------|------------------|----------------|
| 18                 | 18.0             | 10              | 0.25             | 17.50            | 47.39          |
|                    |                  | 20              | 0.31             | 17.38            | 59.03          |
|                    |                  | Std             | 0.38             | 17.25            | 70.59          |
|                    |                  | 30              | 0.44             | 14.12            | 82.06          |
|                    |                  | X Hvy           | 0.50             | 17.00            | 93.45          |
|                    |                  | 40              | 0.56             | 16.88            | 104.80         |
|                    |                  | 60              | 0.75             | 16.50            | 138.20         |
|                    |                  | 80              | 0.94             | 16.13            | 170.80         |
|                    |                  | 100             | 1.16             | 15.69            | 208.00         |
|                    |                  | 120             | 1.38             | 15.25            | 244.10         |
|                    |                  | 140             | 1.56             | 14.88            | 274.20         |
|                    |                  | 160             | 1.78             | 14.44            | 308.50         |
| 20                 | 20.0             | 10              | 0.25             | 19.50            | 52.73          |
|                    |                  | 20 Std          | 0.38             | 19.25            | 78.60          |
|                    |                  | 30 Ex Hvy       | 0.50             | 19.00            | 104.10         |
|                    |                  | 40              | 0.59             | 18.81            | 122.90         |
|                    |                  | 60              | 0.81             | 18.38            | 166.40         |
|                    |                  | 80              | 1.03             | 17.94            | 208.90         |
|                    |                  | 100             | 1.28             | 17.43            | 256.10         |
|                    |                  | 120             | 1.50             | 17.00            | 296.40         |
|                    |                  | 140             | 1.75             | 16.50            | 341.10         |
|                    |                  | 160             | 1.97             | 16.06            | 379.00         |
| 24                 | 24.0             | 10              | 0.25             | 23.50            | 63.41          |
|                    |                  | 20 Std          | 0.38             | 23.25            | 94.62          |
|                    |                  | Ex Hvy          | 0.50             | 23.00            | 125.50         |
|                    |                  | 30              | 0.56             | 22.88            | 140.80         |
|                    |                  | 40              | 0.69             | 22.63            | 171.20         |
|                    |                  | 60              | 0.97             | 22.06            | 238.10         |
|                    |                  | 80              | 1.22             | 21.56            | 296.40         |
|                    |                  | 100             | 1.53             | 20.94            | 367.40         |
|                    |                  | 120             | 1.81             | 20.38            | 429.40         |
|                    |                  | 140             | 2.06             | 19.88            | 483.10         |
|                    |                  | 160             | 2.34             | 19.31            | 541.90         |

# TUBERÍA REDONDA

Normas ASTM 53 Grado B

Producidas en otras medidas y normas

| Medidas en pulgadas | Diametro Externo | I.P.S. Schedule | Espesor de Pared | Diametro Interno | Libras por Pie |
|---------------------|------------------|-----------------|------------------|------------------|----------------|
| 30                  |                  | Std             | 0.38             | 29.25            | 118.70         |
|                     |                  | 21 Ex Hvy       | 0.50             | 29.00            | 157.50         |
|                     |                  | 30              | 0.63             | 28.75            | 196.10         |
| 36                  | 36.0             | Std             | 0.38             | 35.25            | 142.70         |
|                     |                  | Ex Hvy          | 0.50             | 35.00            | 189.60         |
| 38                  | 38.0             |                 | 0.31             |                  | 125.58         |
|                     |                  |                 | 0.38             |                  | 150.69         |
|                     |                  |                 | 0.50             |                  | 200.25         |
| 40                  | 40.0             |                 | 0.31             |                  | 132.25         |
|                     |                  |                 | 0.38             |                  | 158.70         |
|                     |                  |                 | 0.50             |                  | 210.93         |
| 42                  | 42.0             |                 | 0.31             |                  | 138.91         |
|                     |                  |                 | 0.38             |                  | 166.71         |
|                     |                  |                 | 0.50             |                  | 221.61         |

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Cotiza con nosotros **26** (503) 2343-5000

# ÁNGULOS

Norma ASTM A-36

Producidas en otras medidas y normas

| Tamaño en pulgadas | Espesor | Lbs por Pie | Peso en 20 pies |
|--------------------|---------|-------------|-----------------|
| 4x3                | 1/4     | 5.80        | 116             |
|                    | 5/16    | 7.20        | 144             |
|                    | 3/8     | 8.50        | 170             |
|                    | 1/2     | 11.10       | 222             |
|                    | 5/8     | 13.60       | 272             |
| 4x3-1/2            | 1/4     | 6.20        | 124             |
|                    | 5/16    | 7.70        | 154             |
|                    | 3/8     | 9.10        | 182             |
|                    | 1/2     | 11.90       | 238             |
|                    | 5/8     | 14.70       | 294             |
| 4x4                | 1/4     | 6.60        | 132             |
|                    | 5/16    | 8.20        | 164             |
|                    | 3/8     | 9.80        | 196             |
|                    | 1/2     | 12.80       | 256             |
|                    | 5/8     | 15.70       | 314             |
|                    | 3/4     | 18.50       | 370             |
| 5x3                | 1/4     | 6.60        | 132             |
|                    | 5/16    | 8.20        | 164             |
|                    | 3/8     | 9.80        | 169             |
|                    | 1/2     | 12.80       | 256             |
| 5x3-1/2            | 1/4     | 7.00        | 140             |
|                    | 5/16    | 8.70        | 174             |
|                    | 3/8     | 10.40       | 208             |
|                    | 1/2     | 13.60       | 272             |
|                    | 5/8     | 16.80       | 336             |
|                    | 3/4     | 19.80       | 396             |
| 5x5                | 5/16    | 10.30       | 206             |
|                    | 3/8     | 12.30       | 246             |
|                    | 1/2     | 16.20       | 324             |
| 6x3-1/2            | 5/16    | 9.80        | 196             |
|                    | 3/8     | 11.70       | 234             |
|                    | 1/2     | 15.30       | 306             |
| 6x4                | 5/16    | 10.30       | 206             |
|                    | 3/8     | 12.30       | 246             |
|                    | 7/16    | 14.30       | 286             |
|                    | 1/2     | 16.20       | 324             |
|                    | 5/8     | 20.00       | 400             |
|                    | 3/4     | 23.60       | 472             |
|                    | 7/8     | 27.20       | 544             |

# ÁNGULOS

Norma ASTM A-36

Producidas en otras medidas y normas

| Tamaño en pulgadas | Espesor | Lbs por Pie | Peso en 20 pies |
|--------------------|---------|-------------|-----------------|
| 6x6                | 5/16    | 12.40       | 248             |
|                    | 3/8     | 14.90       | 298             |
|                    | 7/16    | 17.20       | 344             |
|                    | 1/2     | 19.60       | 392             |
|                    | 5/8     | 24.20       | 484             |
|                    | 3/4     | 28.70       | 574             |
|                    | 7/8     | 33.10       | 662             |
| 7x4                | 1       | 37.4        | 748             |
|                    | 3/8     | 13.60       | 272             |
|                    | 7/16    | 15.80       | 316             |
|                    | 1/2     | 17.90       | 358             |
|                    | 9/16    | 20.00       | 400             |
|                    | 5/8     | 22.10       | 442             |
|                    | 3/4     | 26.20       | 524             |
| 8x4                | 7/16    | 17.20       | 344             |
|                    | 1/2     | 19.60       | 392             |
|                    | 5/8     | 24.20       | 484             |
|                    | 3/4     | 28.70       | 574             |
|                    | 7/8     | 33.10       | 662             |
|                    | 1       | 37.40       | 748             |
| 8x6                | 7/16    | 20.20       | 404             |
|                    | 1/2     | 23.00       | 460             |
|                    | 9/16    | 25.70       | 514             |
|                    | 5/8     | 28.50       | 570             |
|                    | 3/4     | 33.80       | 676             |
|                    | 7/8     | 39.10       | 782             |
|                    | 1       | 44.20       | 884             |
| 8x8                | 1/2     | 26.40       | 528             |
|                    | 9/16    | 32.96       | 592             |
|                    | 5/8     | 32.70       | 654             |
|                    | 3/4     | 38.90       | 778             |
|                    | 7/8     | 45.00       | 900             |
|                    | 1       | 51.00       | 1020            |
|                    | 1 1/8   | 56.90       | 1138            |
| 9x4                | 1/2     | 21.30       | 426             |
|                    | 9/16    | 23.80       | 476             |
|                    | 5/8     | 26.30       | 526             |
|                    | 3/4     | 31.30       | 626             |
|                    | 7/8     | 36.10       | 722             |
|                    | 1       | 40.80       | 816             |

# LAMINAS DE ACERO



## Laminas de acero

Norma ASTM A-36 Y GRD 50

Medidas mas comunes con peso en libras

|             | 1/2      | 5/8      | 3/4      | 1        | 1 1/4    | 1 1/2    | 2         |
|-------------|----------|----------|----------|----------|----------|----------|-----------|
| <b>4x8</b>  | 661.39   | 821.29   | 985.91   | 1,331.00 | 1,656.55 | 1,966.52 | 2,629.67  |
| <b>4x10</b> | 826.74   | 1,026.62 | 1,232.38 | 1,663.75 | 2,070.69 | 2,458.15 | 3,287.09  |
| <b>6x20</b> | 2,464.77 | 3,079.85 | 3,697.15 | 4,991.26 | 612.07   | 7,374.45 | 9,861.26  |
| <b>8x20</b> | 3,306.95 | 4,106.45 | 4,929.55 | 6,655.00 | 8,282.76 | 9,832.60 | 13,148.35 |

|             | 3/32   | 1/8    | 3/16     | 1/4      | 5/16     | 3/8      |
|-------------|--------|--------|----------|----------|----------|----------|
| <b>4x8</b>  | 120.25 | 164.02 | 246.33   | 328.63   | 413.37   | 508.76   |
| <b>4x10</b> | 150.31 | 205.03 | 307.91   | 410.79   | 516.71   | 635.95   |
| <b>6x20</b> | 450.00 | 615.09 | 923.74   | 1,232.38 | 1,541.03 | 1,849.68 |
| <b>8x20</b> | 601.25 | 820.12 | 1,231.65 | 1,643.15 | 2,066.85 | 2,543.80 |

## Laminas de acero anti-desgaste

Medidas mas comunes con peso en libras

| 3/16   | 1/4 | 5/16   | 3/8    | 1/2    |
|--------|-----|--------|--------|--------|
| 246.26 | 329 | 410.83 | 493.11 | 657.09 |

## Laminas de acero lagrimada

Peso en libras por lamina en 4 x 8 pies

|                | 3/16   | 1/4    |
|----------------|--------|--------|
| <b>Por PIE</b> | 8.99   | 11.48  |
| <b>4 x 8</b>   | 287.56 | 367.44 |



## PERNOS DE CORTANTE



• 3/4" x 4" - 3/16"



• 5/8" x 4" - 3/16"



• 1/2" x 4" - 1/8"



• 1/2" x 3"

## ELECTRODOS

- 7018 1/8"
- 7018 5/32"
- 6013 1/8"
- 6013 3/32"
- 6010 1/8"



# Servicio a domicilio

¡Llevamos el material —→  
←— hasta tu proyecto!

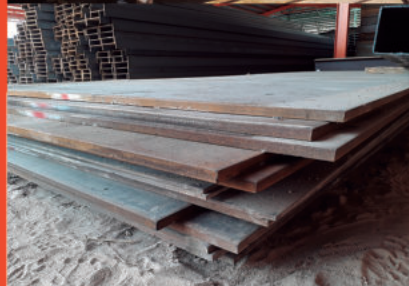
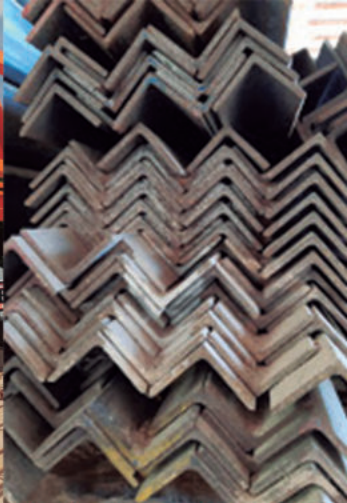


Pregunta por nuestro servicio a domicilio a nivel nacional e internacional llamando al número **(503) 2343-5000** también puedes escribirnos al **(503) 7469-1330** o consultar con tu asesor de venta asignado.

**Descarga de material es por cuenta del cliente**







# TABLA DE CONVERSIÓN

| Pulgadas |        | Milímetros | Pulgadas |        | Milímetros |
|----------|--------|------------|----------|--------|------------|
| 1/64     | 0.0156 | 0.396875   | 33/64    | 0.5156 | 13.096875  |
| 1/32     | 0.0313 | 0.793750   | 17/32    | 0.5313 | 13.493750  |
| 3/64     | 0.0469 | 1.190625   | 35/64    | 0.5469 | 13.890625  |
| 1/16     | 0.0625 | 1.587500   | 9/16     | 0.5625 | 14.287500  |
| 5/64     | 0.0781 | 1.984375   | 37/64    | 0.5781 | 14.684375  |
| 3/32     | 0.0938 | 2.381250   | 19/32    | 0.5938 | 15.081250  |
| 7/64     | 0.1094 | 2.778125   | 39/64    | 0.6094 | 15.478125  |
| 1/8      | 0.1250 | 3.175000   | 5/8      | 0.6250 | 15.875000  |
| 9/64     | 0.1406 | 3.571875   | 41/64    | 0.6406 | 16.271875  |
| 5/32     | 0.1563 | 3.968750   | 21/32    | 0.6563 | 16.668750  |
| 11/64    | 0.1719 | 4.365625   | 43/64    | 0.6719 | 17.065825  |
| 3/16     | 0.1875 | 4.768500   | 11/16    | 0.6875 | 17.462500  |
| 13/64    | 0.2031 | 5.169357   | 45/64    | 0.7031 | 17.859375  |
| 7/32     | 0.2188 | 5.556250   | 23/32    | 0.7188 | 18.256250  |
| 15/64    | 0.2344 | 5.953125   | 47/64    | 0.7344 | 18.653125  |
| 1/4      | 0.2500 | 6.350000   | 3/4      | 0.7500 | 19.050000  |
| 17/64    | 0.2656 | 6.746875   | 49/64    | 0.7656 | 19.446875  |
| 9/32     | 0.2813 | 7.143750   | 25/32    | 0.7813 | 19.843750  |
| 19/64    | 0.2969 | 7.540625   | 51/64    | 0.7969 | 20.240625  |
| 5/16     | 0.3125 | 7.937500   | 13/16    | 0.8125 | 20.637500  |
| 21/64    | 0.3281 | 8.334375   | 53/64    | 0.8281 | 21.034375  |
| 11/32    | 0.3438 | 8.731250   | 27/32    | 0.8438 | 21.431250  |
| 23/64    | 0.3594 | 9.128125   | 55/64    | 0.8594 | 21.828125  |
| 3/8      | 0.3750 | 9.525000   | 7/8      | 0.8750 | 22.225000  |
| 25/64    | 0.3906 | 9.921875   | 57/64    | 0.8906 | 22.621875  |
| 13/32    | 0.4063 | 10.318750  | 29/32    | 0.9063 | 23.018750  |
| 27/64    | 0.4219 | 10.715625  | 59/64    | 0.9219 | 23.415625  |
| 7/16     | 0.4375 | 11.112500  | 15/16    | 0.9375 | 23.812500  |
| 29/64    | 0.4531 | 11.509375  | 61/64    | 0.9531 | 24.208375  |
| 15/32    | 0.4688 | 11.906250  | 31/32    | 0.9688 | 24.606250  |
| 31/64    | 0.4844 | 12.303125  | 63/64    | 0.9844 | 25.003125  |
| 1/2      | 0.5000 | 12.700000  | 1        | 1.0000 | 25.400000  |

## PARA CONVERTIR:

Pulgadas a milímetros  
multiplicar por: 25.40005

Milímetros a pulgadas  
multiplicar por: 0.03937008

Metros a pies  
multiplicar por: 3.20084

Pies a metros  
multiplicar por: 0.3048006

# Agradecemos su preferencia

A todos nuestros clientes y colaboradores por darnos su confianza, quienes día a día nos visitan satisfechos por los productos y servicios que les ofrecemos, hemos alcanzado en estos años el liderazgo en el mercado, seguiremos manteniendo nuestra credibilidad, seriedad e independencia. Porque ustedes son nuestra razón de ser y existir, nuestra gratitud y afecto personal.



**GRUPO**

**MULTIACEROS** 

IMPORTADORES DIRECTOS DE ACERO ESTRUCTURAL PARA CONSTRUCCIÓN

S.A. de C.V.



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**GrupoMultiaceros**

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