

PLATINAS LAC A36

ASTM A36

NORMA TÉCNICA

ASTM A36
Tolerancias Dimensionales ISO 1035/4

PRESENTACIÓN

Barras de 6 metros de longitud.

USO

Estructuras metálicas, puentes, torres de transmisión, carpintería metálica.

CARACTERÍSTICAS

Perfil de acero estructural laminado en caliente, de sección rectangular.

| DIMENSIONES | | | PESO TEÓRICO | |
|--------------|---|-------------|--------------|---------|
| Espesor (mm) | x | Ancho (plg) | (kg/m) | (kg/6m) |
| 3.0mm | x | 1/2" | 0.29 | 1.80 |
| 3.0mm | x | 1" | 0.59 | 3.58 |
| 3.0mm | x | 1 1/4" | 0.75 | 4.48 |
| 3.0mm | x | 2" | 1.19 | 7.19 |
| 4.5mm | x | 3/4" | 0.67 | 4.03 |
| 4.5mm | x | 1" | 0.89 | 5.38 |
| 4.5mm | x | 1 1/4" | 1.12 | 6.71 |
| 4.5mm | x | 1 1/2" | 1.34 | 8.06 |
| 4.5mm | x | 2" | 1.79 | 10.75 |
| 4.5mm | x | 3" | 2.69 | 16.13 |
| 6.0mm | x | 1/2" | 0.59 | 3.58 |
| 6.0mm | x | 1" | 1.19 | 7.19 |
| 6.0mm | x | 1 1/2" | 1.79 | 10.75 |
| 6.0mm | x | 2 1/2" | 1.94 | 11.63 |
| 6.0mm | x | 2" | 2.38 | 14.29 |
| 6.0mm | x | 3" | 3.62 | 21.74 |

PROPIEDADES MECÁNICAS

Límite de Fluencia (mín.) 2530 Kg/cm² (250 Mpa)

Resistencia a la Tracción (mín.) 4080 Kg/cm² (400 Mpa)

Para espesores: Elongación (mín. en 200 mm)

1/8" 12.50%

3/16" 15.00%

1/4" 17.50%

3/8", 1/2", 5/8", 3/4" y 1" 20.00%

| Ancho Nominal (plg) | TOLERANCIAS (mm) | | | |
|---------------------|------------------|-----------|-------------------|-----------|
| | Ancho | ESPESOR e | | |
| | | 3/4" < e | 3/4" ≤ e < 1 5/8" | Longitud |
| Menor a 2" | ± 0.8 | ± 0.4 | ± 0.8 | -0 / + 50 |
| 2" ≤ ancho < 3" | ± 1.2 | ± 0.5 | ± 1.0 | -0 / + 50 |
| 3" ≤ ancho < 4" | ± 1.5 | ± 0.5 | ± 1.0 | -0 / + 50 |
| Mayor a 4" | ± 2.0 | ± 0.5 | ± 1.0 | -0 / + 50 |

| DIMENSIONES EN PULGADAS | | | PESO TEÓRICO | |
|-------------------------|---|--------|--------------|---------|
| Espesor | x | Ancho | (kg/m) | (kg/6m) |
| 1/8" | x | 1/2" | 0.32 | 1.90 |
| 1/8" | x | 5/8" | 0.39 | 2.37 |
| 1/8" | x | 3/4" | 0.48 | 2.85 |
| 1/8" | x | 1" | 0.63 | 3.80 |
| 1/8" | x | 1 1/4" | 0.79 | 4.75 |
| 1/8" | x | 1 1/2" | 0.95 | 5.70 |
| 3/16" | x | 1/2" | 0.48 | 2.85 |
| 3/16" | x | 3/4" | 0.71 | 4.27 |
| 3/16" | x | 1" | 0.95 | 5.70 |
| 3/16" | x | 1 1/4" | 1.19 | 7.12 |
| 3/16" | x | 1 1/2" | 1.43 | 8.55 |
| 3/16" | x | 2" | 1.90 | 11.40 |
| 1/4" | x | 1" | 1.27 | 7.60 |
| 1/4" | x | 1 1/4" | 1.58 | 9.50 |
| 1/4" | x | 1 1/2" | 1.90 | 11.40 |
| 1/4" | x | 2" | 2.53 | 15.19 |
| 1/4" | x | 2 1/2" | 3.17 | 18.99 |
| 1/4" | x | 3" | 3.79 | 22.79 |
| 3/8" | x | 1 1/2" | 2.85 | 17.09 |
| 3/8" | x | 2" | 3.79 | 22.79 |
| 3/8" | x | 2 1/2" | 4.75 | 28.49 |
| 3/8" | x | 3" | 5.69 | 34.19 |
| 3/8" | x | 4" | 7.59 | 45.58 |
| 1/2" | x | 2" | 5.07 | 30.39 |
| 1/2" | x | 3" | 7.59 | 45.58 |
| 1/2" | x | 4" | 10.13 | 60.77 |
| 1/2" | x | 5" | 12.66 | 75.97 |
| 5/8" | x | 4" | 12.66 | 75.97 |
| 5/8" | x | 5" | 15.83 | 94.96 |
| 3/4" | x | 5" | 18.99 | 113.95 |

COMPOSICIÓN QUÍMICA

| | |
|--------------------|------|
| Carbono (% máx.) | 0.26 |
| Silicio (% máx.) | 0.40 |
| Manganeso (% máx.) | 0.60 |
| Fósforo (% máx.) | 0.04 |
| Azufre (% máx.) | 0.05 |