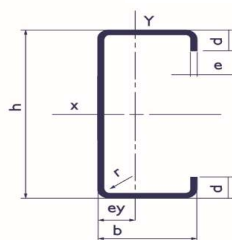


PERFIL C

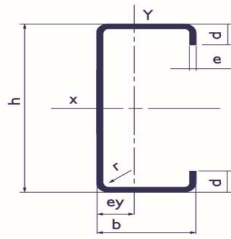
MEDIDAS Y CARACTERÍSTICAS GEOMÉTRICAS



| Designación del Perfil | Altura (alma) | Ala (rama) | Ala Ríg. (rigidizador) | Espesor | Radio de Acuerdo | Área nominal de la sección | Masa Nominal | Distancias al Centro de Gravedad (1) | Momentos de Inercia (1) | | Módulos Resistente (1) | | Radios de Giro (1) | |
|------------------------|---------------|------------|------------------------|---------|------------------|----------------------------|--------------|--------------------------------------|-------------------------|-----------------|------------------------|-----------------|--------------------|----------------|
| | h | b | d | e | r | S | G | ey | I _x | I _y | W _x | W _y | i _x | i _y |
| | mm | mm | mm | mm | mm | Cm ² | Kg/m | Cm | Cm ⁴ | Cm ⁴ | Cm ³ | Cm ³ | Cm | Cm |
| 80 x 40 x 15 x 1.60 | 80 | 40 | 15 | 1.60 | 1.60 | 2.87 | 2.25 | 1.31 | 29.03 | 6.73 | 7.26 | 2.66 | 3.18 | 1.53 |
| 80 x 40 x 15 x 1.80 | 80 | 40 | 15 | 1.80 | 1.80 | 3.21 | 2.52 | 1.28 | 32.21 | 7.43 | 8.05 | 2.93 | 3.17 | 1.52 |
| 80 x 40 x 15 x 2.00 | 80 | 40 | 15 | 2.00 | 2.00 | 3.54 | 2.78 | 1.26 | 35.25 | 8.07 | 8.81 | 3.18 | 3.16 | 1.51 |
| 80 x 50 x 15 x 1.60 | 80 | 50 | 15 | 1.60 | 1.60 | 3.19 | 2.51 | 1.73 | 33.95 | 11.46 | 8.49 | 3.69 | 3.26 | 1.89 |
| 80 x 50 x 15 x 2.00 | 80 | 50 | 15 | 2.00 | 2.00 | 3.94 | 3.09 | 1.69 | 41.33 | 13.82 | 10.33 | 4.44 | 3.24 | 1.87 |
| 80 x 50 x 20 x 1.60 | 80 | 50 | 20 | 1.60 | 1.60 | 3.35 | 2.63 | 1.88 | 34.76 | 12.85 | 8.69 | 4.34 | 3.22 | 1.96 |
| 80 x 50 x 20 x 2.00 | 80 | 50 | 20 | 2.00 | 2.00 | 4.14 | 3.25 | 1.84 | 42.35 | 15.54 | 10.59 | 5.24 | 3.20 | 1.94 |
| 100 x 40 x 15 x 1.60 | 100 | 40 | 15 | 1.60 | 1.60 | 3.19 | 2.51 | 1.17 | 48.97 | 7.30 | 9.79 | 2.73 | 3.92 | 1.51 |
| 100 x 40 x 15 x 2.00 | 100 | 40 | 15 | 2.00 | 2.00 | 3.94 | 3.09 | 1.12 | 59.66 | 8.76 | 11.93 | 3.27 | 3.89 | 1.49 |
| 100 x 45 x 10 x 1.60 | 100 | 45 | 10 | 1.60 | 1.60 | 3.19 | 2.51 | 1.22 | 50.59 | 8.25 | 10.12 | 2.52 | 3.98 | 1.61 |
| 100 x 45 x 10 x 2.00 | 100 | 45 | 10 | 2.00 | 2.00 | 3.94 | 3.09 | 1.18 | 61.65 | 9.89 | 12.33 | 3.47 | 3.96 | 1.58 |
| 100 x 45 x 15 x 1.60 | 100 | 45 | 15 | 1.60 | 1.60 | 3.35 | 2.63 | 1.36 | 52.85 | 9.66 | 10.57 | 3.08 | 3.97 | 1.70 |
| 100 x 45 x 15 x 2.00 | 100 | 45 | 15 | 2.00 | 2.00 | 4.14 | 3.25 | 1.32 | 64.46 | 11.63 | 12.89 | 3.66 | 3.95 | 1.68 |
| 100 x 50 x 15 x 1.60 | 100 | 50 | 15 | 1.60 | 1.60 | 3.51 | 2.76 | 1.57 | 56.70 | 12.41 | 11.34 | 3.79 | 4.02 | 1.88 |
| 100 x 50 x 15 x 1.80 | 100 | 50 | 15 | 1.80 | 1.80 | 3.93 | 3.08 | 1.55 | 63.07 | 13.74 | 12.61 | 4.20 | 4.01 | 1.87 |
| 100 x 50 x 15 x 2.00 | 100 | 50 | 15 | 2.00 | 2.00 | 4.34 | 3.40 | 1.53 | 69.23 | 14.98 | 13.85 | 4.57 | 4.00 | 1.86 |
| 100 x 50 x 15 x 2.50 | 100 | 50 | 15 | 2.50 | 2.50 | 5.34 | 4.19 | 1.47 | 83.99 | 17.90 | 16.80 | 5.46 | 3.97 | 1.83 |
| 100 x 50 x 20 x 1.60 | 100 | 50 | 20 | 1.60 | 1.60 | 3.67 | 2.88 | 1.71 | 58.39 | 13.97 | 11.68 | 4.46 | 3.99 | 1.95 |
| 100 x 50 x 20 x 2.00 | 100 | 50 | 20 | 2.00 | 2.00 | 4.54 | 3.56 | 1.67 | 71.35 | 16.91 | 14.27 | 5.39 | 3.97 | 1.93 |
| 100 x 50 x 20 x 2.50 | 100 | 50 | 20 | 2.50 | 2.50 | 5.59 | 4.39 | 1.61 | 86.64 | 20.28 | 17.33 | 6.46 | 3.94 | 1.90 |
| 100 x 50 x 20 x 3.20 | 100 | 50 | 20 | 3.20 | 3.20 | 7.01 | 5.50 | 1.54 | 106.53 | 24.54 | 21.31 | 7.81 | 3.90 | 1.87 |
| 120 x 50 x 15 x 1.60 | 120 | 50 | 15 | 1.60 | 1.60 | 3.83 | 3.01 | 1.43 | 86.48 | 13.21 | 14.41 | 3.87 | 4.75 | 1.86 |
| 120 x 50 x 15 x 1.80 | 120 | 50 | 15 | 1.80 | 1.80 | 4.29 | 3.37 | 1.41 | 96.28 | 14.62 | 16.05 | 4.29 | 4.74 | 1.85 |
| 120 x 50 x 15 x 2.00 | 120 | 50 | 15 | 2.00 | 2.00 | 4.74 | 3.72 | 1.39 | 105.80 | 15.95 | 17.63 | 4.67 | 4.73 | 1.83 |
| 120 x 50 x 15 x 2.50 | 120 | 50 | 15 | 2.50 | 2.50 | 5.84 | 4.58 | 1.39 | 128.78 | 19.11 | 21.46 | 5.60 | 4.70 | 1.81 |
| 120 x 50 x 15 x 3.20 | 120 | 50 | 15 | 3.20 | 3.20 | 7.33 | 5.75 | 1.26 | 158.61 | 22.98 | 26.44 | 6.72 | 4.65 | 1.77 |
| 120 x 50 x 20 x 1.60 | 120 | 50 | 20 | 1.60 | 1.60 | 3.99 | 3.13 | 1.56 | 89.37 | 14.91 | 14.89 | 4.55 | 4.73 | 1.93 |
| 120 x 50 x 20 x 2.00 | 120 | 50 | 20 | 2.00 | 2.00 | 4.94 | 3.88 | 1.52 | 109.42 | 18.05 | 18.24 | 5.51 | 4.71 | 1.91 |
| 120 x 50 x 20 x 2.50 | 120 | 50 | 20 | 2.50 | 2.50 | 6.09 | 4.78 | 1.47 | 133.22 | 21.66 | 22.20 | 6.60 | 4.68 | 1.89 |
| 120 x 50 x 20 x 3.20 | 120 | 50 | 20 | 3.20 | 3.20 | 7.65 | 6.00 | 1.40 | 164.23 | 26.15 | 27.37 | 7.96 | 4.63 | 1.85 |
| 120 x 60 x 20 x 1,80 | 120 | 60 | 20 | 1.80 | 1.80 | 4.83 | 3.79 | 1.95 | 112.11 | 25.41 | 18.69 | 6.57 | 4.82 | 2.29 |
| 120 x 60 x 20 x 2.00 | 120 | 60 | 20 | 2.00 | 2.00 | 5.34 | 4.19 | 1.93 | 123.39 | 27.84 | 20.56 | 7.19 | 4.81 | 2.28 |
| 120 x 60 x 20 x 3,20 | 120 | 60 | 20 | 3.20 | 3.20 | 8.29 | 6.51 | 1.80 | 186.23 | 40.90 | 31.04 | 10.55 | 4.74 | 2.22 |
| 140 x 50 x 10 x1,60 | 140 | 50 | 10 | 1.60 | 1.60 | 3.99 | 3.13 | 1.18 | 118.65 | 11.92 | 16.95 | 3.25 | 5.45 | 1.73 |
| 140 x 50 x 10 x 2,00 | 140 | 50 | 10 | 2.00 | 2.00 | 4.94 | 3.88 | 1.13 | 145.28 | 14.34 | 20.75 | 3.91 | 5.42 | 1.72 |
| 140 x 50 x 10 x 2,50 | 140 | 50 | 10 | 2.50 | 2.50 | 6.09 | 4.78 | 1.08 | 176.91 | 17.08 | 25.27 | 4.65 | 5.39 | 1.67 |
| 140 x 50 x 15 x 1.60 | 140 | 50 | 15 | 1.60 | 1.60 | 4.15 | 3.26 | 1.31 | 123.94 | 13.90 | 17.71 | 3.94 | 5.46 | 1.83 |
| 140 x 50 x 15 x 2,00 | 140 | 50 | 15 | 2.00 | 2.00 | 5.14 | 4.03 | 1.27 | 151.85 | 16.76 | 21.69 | 4.75 | 5.44 | 1.81 |
| 140 x 50 x 15 x 2,50 | 140 | 50 | 15 | 2.50 | 2.50 | 6.34 | 4.98 | 1.22 | 185.18 | 20.09 | 26.45 | 5.69 | 5.40 | 1.78 |
| 140 x 50 x 20 x 1.60 | 140 | 50 | 20 | 1.60 | 1.60 | 4.31 | 3.38 | 1.44 | 128.36 | 15.73 | 18.34 | 4.63 | 5.46 | 1.91 |
| 140 x 50 x 20 x 2,00 | 140 | 50 | 20 | 2.00 | 2.00 | 5.34 | 4.19 | 1.40 | 157.36 | 19.03 | 22.48 | 5.60 | 5.43 | 1.89 |
| 140 x 50 x 20 x 2,50 | 140 | 50 | 20 | 2.50 | 2.50 | 6.59 | 5.17 | 1.35 | 191.98 | 22.84 | 27.43 | 6.71 | 5.40 | 1.86 |
| 140 x 50 x 20 x 3,20 | 140 | 50 | 20 | 3.20 | 3.20 | 8.14 | 6.51 | 1.27 | 241.85 | 26.76 | 31.69 | 7.75 | 5.44 | 1.81 |
| 140 x 60 x 15 x 2,00 | 140 | 60 | 15 | 2.00 | 2.00 | 5.54 | 4.35 | 1.65 | 170.89 | 26.18 | 24.41 | 6.30 | 5.56 | 2.17 |
| 140 x 60 x 20 x 1,60 | 140 | 60 | 20 | 1.60 | 1.60 | 4.63 | 3.64 | 1.83 | 143.65 | 24.14 | 20.52 | 6.02 | 5.57 | 2.28 |
| 140 x 60 x 20 x 1,80 | 140 | 60 | 20 | 1.80 | 1.80 | 5.19 | 4.07 | 1.81 | 160.22 | 26.80 | 22.89 | 6.68 | 5.56 | 2.27 |
| 140 x 60 x 20 x 2,00 | 140 | 60 | 20 | 2.00 | 2.00 | 5.74 | 4.50 | 1.79 | 176.41 | 29.35 | 25.20 | 7.32 | 5.55 | 2.26 |
| 140 x 60 x 20 x 2,50 | 140 | 60 | 20 | 2.50 | 2.50 | 7.09 | 5.56 | 1.74 | 215.62 | 35.41 | 30.80 | 8.82 | 5.52 | 2.23 |
| 140 x 60 x 20 x 3,20 | 140 | 60 | 20 | 3.20 | 3.20 | 8.93 | 7.01 | 1.66 | 267.31 | 43.08 | 38.19 | 10.72 | 5.47 | 2.20 |

PERFIL C

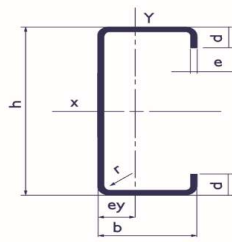
MEDIDAS Y CARACTERÍSTICAS GEOMÉTRICAS



| Designación del Perfil | Altura (alma) | Ala (rama) | Ala Rig. (rigidizador) | Espesor | Radio de Acuerdo | Area nominal de la sección | Masa Nominal | Distancias al Centro de Gravedad (1) | Momentos de Inercia (1) | | Módulos Resistente (1) | | Radios de Giro (1) | |
|------------------------|---------------|------------|------------------------|---------|------------------|----------------------------|--------------|--------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------|----------------------|
| | h mm | b mm | d mm | e mm | r mm | S Cm ² | G Kg/m | e _y Cm | I _x Cm ⁴ | I _y Cm ⁴ | W _x Cm ³ | W _y Cm ³ | i _x Cm | i _y Cm |
| 150 x 100 x 30 x 3,20 | 150 | 100 | 30 | 3.20 | 3.20 | 12.45 | 9.77 | 3.56 | 468.75 | 179.17 | 62.50 | 29.28 | 6.14 | 3.79 |
| 150 x 100 x 30 x 4,75 | 150 | 100 | 30 | 4.75 | 4.75 | 17.99 | 14.12 | 3.39 | 660.06 | 248.07 | 88.01 | 40.46 | 6.06 | 3.71 |
| 150 x 100 x 40 x 3,20 | 150 | 100 | 40 | 3.20 | 3.20 | 13.09 | 10.27 | 3.85 | 479.05 | 200.80 | 63.87 | 34.45 | 6.05 | 3.92 |
| 150 x 100 x 40 x 4,75 | 150 | 100 | 40 | 4.75 | 4.75 | 18.94 | 14.87 | 3.69 | 675.34 | 279.44 | 90.05 | 47.88 | 5.97 | 3.84 |

PERFIL C

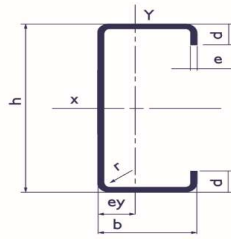
MEDIDAS Y CARACTERÍSTICAS GEOMÉTRICAS



| Designación del Perfil | Altura (alma) | Ala (rama) | Ala Rig. (rigidizador) | Espesor | Radio de Acuerdo | Área nominal de la sección | Masa Nominal | Distancias al Centro de Gravedad (1) | Momentos de Inercia (1) | | Módulos Resistente (1) | | Radios de Giro (1) | |
|------------------------|---------------|------------|------------------------|---------|------------------|----------------------------|--------------|--------------------------------------|-------------------------|--------------------|------------------------|--------------------|--------------------|-------|
| | h mm | b mm | d mm | e mm | r mm | S cm ² | G Kg/m | ey Cm | Ix Cm ⁴ | Iy Cm ⁴ | Wx Cm ³ | Wy Cm ³ | Ix Cm | Iy Cm |
| 160 x 50 x 15 x 2,00 | 160 | 50 | 15 | 2.00 | 2.00 | 5.54 | 4.35 | 1.17 | 208.23 | 17.49 | 26.03 | 4.82 | 6.13 | 1.78 |
| 160 x 50 x 20 x 2,00 | 160 | 50 | 20 | 2.00 | 2.00 | 5.74 | 4.50 | 1.30 | 216.04 | 19.89 | 27.01 | 5.68 | 6.14 | 1.86 |
| 160 x 60 x 15 x 1,60 | 160 | 60 | 15 | 1.60 | 1.60 | 4.79 | 3.76 | 1.57 | 189.76 | 22.53 | 23.72 | 5.28 | 6.29 | 2.17 |
| 160 x 60 x 15 x 2,00 | 160 | 60 | 15 | 2.00 | 2.00 | 5.94 | 4.66 | 1.53 | 233.19 | 27.35 | 29.15 | 6.49 | 6.27 | 2.15 |
| 160 x 60 x 20 x 1,60 | 160 | 60 | 20 | 1.60 | 1.60 | 4.95 | 3.89 | 1.71 | 195.98 | 25.23 | 24.50 | 6.11 | 6.29 | 2.26 |
| 160 x 60 x 20 x 2,00 | 160 | 60 | 20 | 2.00 | 2.00 | 6.14 | 4.82 | 1.67 | 240.95 | 30.68 | 30.12 | 7.42 | 6.27 | 2.24 |
| 160 x 60 x 20 x 2,50 | 160 | 60 | 20 | 2.50 | 2.50 | 7.59 | 5.96 | 1.61 | 294.93 | 37.03 | 36.87 | 8.95 | 6.23 | 2.21 |
| 160 x 60 x 20 x 3,20 | 160 | 60 | 20 | 3.20 | 3.20 | 9.57 | 7.51 | 1.54 | 366.41 | 45.06 | 45.80 | 10.89 | 6.19 | 2.17 |
| 160 x 60 x 25 x 1,60 | 160 | 60 | 25 | 1.60 | 1.60 | 5.11 | 4.01 | 1.83 | 201.31 | 27.79 | 25.16 | 6.94 | 6.28 | 2.33 |
| 160 x 60 x 25 x 2,50 | 160 | 60 | 25 | 2.50 | 2.50 | 7.84 | 6.15 | 1.74 | 303.32 | 40.98 | 37.91 | 10.22 | 6.22 | 2.29 |
| 160 x 60 x 25 x 3,20 | 160 | 60 | 25 | 3.20 | 3.20 | 9.89 | 7.76 | 1.67 | 376.99 | 49.97 | 47.12 | 12.46 | 6.18 | 2.25 |
| 160 x 60 x 25 x 4,75 | 160 | 60 | 25 | 4.75 | 4.75 | 14.19 | 11.14 | 1.51 | 524.40 | 66.91 | 65.55 | 16.66 | 6.08 | 2.17 |
| 180 x 60 x 20 x 2,00 | 180 | 60 | 20 | 2.00 | 2.00 | 6.54 | 5.13 | 1.56 | 317.83 | 31.88 | 35.31 | 7.52 | 6.97 | 2.21 |
| 180 x 60 x 20 x 2,50 | 180 | 60 | 20 | 2.50 | 2.50 | 8.09 | 6.35 | 1.51 | 389.55 | 38.50 | 43.28 | 9.07 | 6.94 | 2.18 |
| 180 x 60 x 20 x 3,20 | 180 | 60 | 20 | 3.20 | 3.20 | 10.21 | 8.01 | 1.43 | 484.89 | 46.92 | 53.88 | 11.05 | 6.89 | 2.14 |
| 180 x 70 x 15 x 1,60 | 180 | 70 | 15 | 1.60 | 1.60 | 5.43 | 4.26 | 1.83 | 275.30 | 34.06 | 30.59 | 6.80 | 7.12 | 2.50 |
| 180 x 70 x 15 x 2,00 | 180 | 70 | 15 | 2.00 | 2.00 | 6.74 | 5.29 | 1.79 | 339.00 | 41.47 | 37.67 | 8.27 | 7.09 | 2.48 |
| 180 x 70 x 20 x 2,00 | 180 | 70 | 20 | 2.00 | 2.00 | 6.94 | 5.45 | 1.93 | 349.45 | 46.13 | 38.83 | 9.47 | 7.10 | 2.58 |
| 180 x 70 x 20 x 2,50 | 180 | 70 | 20 | 2.50 | 2.50 | 8.59 | 6.74 | 1.87 | 428.81 | 55.89 | 47.65 | 11.46 | 7.07 | 2.55 |
| 180 x 70 x 20 x 3,20 | 180 | 70 | 20 | 3.20 | 3.20 | 10.85 | 8.51 | 1.80 | 534.65 | 68.42 | 59.41 | 14.02 | 7.02 | 2.51 |
| 180 x 70 x 25 x 2,00 | 180 | 70 | 25 | 2.00 | 2.00 | 7.14 | 5.60 | 2.06 | 358.56 | 50.56 | 39.84 | 10.67 | 7.09 | 2.66 |
| 180 x 70 x 25 x 2,50 | 180 | 70 | 25 | 2.50 | 2.50 | 8.84 | 6.94 | 2.01 | 440.20 | 61.37 | 48.91 | 12.95 | 7.06 | 2.64 |
| 180 x 70 x 25 x 3,20 | 180 | 70 | 25 | 3.20 | 3.20 | 11.17 | 8.77 | 1.94 | 549.24 | 75.35 | 61.03 | 15.88 | 7.01 | 2.60 |
| 180 x 70 x 25 x 4,75 | 180 | 70 | 25 | 4.75 | 4.75 | 19.09 | 12.63 | 1.77 | 770.02 | 102.05 | 85.56 | 21.48 | 6.92 | 2.52 |
| 200 x 60 x 20 x 2,00 | 200 | 60 | 20 | 2.00 | 2.00 | 6.94 | 5.45 | 1.46 | 407.73 | 32.92 | 40.77 | 7.59 | 7.67 | 2.18 |
| 200 x 60 x 20 x 2,50 | 200 | 60 | 20 | 2.50 | 2.50 | 8.59 | 6.74 | 1.40 | 500.24 | 39.76 | 50.02 | 9.16 | 7.63 | 2.15 |
| 200 x 60 x 20 x 3,20 | 200 | 60 | 20 | 3.20 | 3.20 | 10.85 | 8.51 | 1.34 | 623.57 | 48.45 | 62.36 | 11.16 | 7.58 | 2.11 |
| 200 x 70 x 25 x 2,00 | 200 | 70 | 25 | 2.00 | 2.00 | 7.54 | 5.92 | 1.95 | 458.87 | 52.33 | 45.89 | 10.78 | 7.80 | 2.63 |
| 200 x 70 x 25 x 2,50 | 200 | 70 | 25 | 2.50 | 2.50 | 9.34 | 7.33 | 1.89 | 563.87 | 63.53 | 56.39 | 13.08 | 7.77 | 2.61 |
| 200 x 70 x 25 x 3,20 | 200 | 70 | 25 | 3.20 | 3.20 | 11.81 | 9.27 | 1.82 | 704.48 | 78.01 | 70.45 | 16.06 | 7.72 | 2.57 |
| 200 x 80 x 15 x 1,60 | 200 | 80 | 15 | 1.60 | 1.60 | 6.07 | 4.77 | 2.08 | 383.12 | 48.87 | 38.31 | 8.49 | 7.94 | 2.84 |
| 200 x 80 x 15 x 2,00 | 200 | 80 | 15 | 2.00 | 2.00 | 7.54 | 5.92 | 2.04 | 472.52 | 59.67 | 47.25 | 10.36 | 7.92 | 2.81 |
| 200 x 80 x 20 x 2,00 | 200 | 80 | 20 | 2.00 | 2.00 | 7.74 | 6.07 | 2.19 | 486.14 | 65.91 | 48.61 | 11.74 | 7.93 | 2.92 |
| 200 x 80 x 20 x 2,50 | 200 | 80 | 20 | 2.50 | 2.50 | 9.59 | 7.53 | 2.13 | 597.76 | 80.13 | 59.78 | 14.27 | 7.90 | 2.89 |
| 200 x 80 x 20 x 3,20 | 200 | 80 | 20 | 3.20 | 3.20 | 12.13 | 9.52 | 2.06 | 747.52 | 98.61 | 74.75 | 17.54 | 7.85 | 2.85 |
| 200 x 80 x 25 x 2,00 | 200 | 80 | 25 | 2.00 | 2.00 | 7.94 | 6.23 | 2.33 | 498.07 | 71.80 | 49.81 | 13.12 | 7.92 | 3.01 |
| 200 x 80 x 25 x 2,50 | 200 | 80 | 25 | 2.50 | 2.50 | 9.84 | 7.72 | 2.27 | 612.63 | 87.41 | 61.26 | 15.96 | 7.89 | 2.98 |
| 200 x 80 x 25 x 3,20 | 200 | 80 | 25 | 3.20 | 3.20 | 12.45 | 9.77 | 2.20 | 766.45 | 107.76 | 76.64 | 19.66 | 7.85 | 2.94 |
| 200 x 80 x 25 x 4,75 | 200 | 80 | 25 | 4.75 | 4.75 | 17.99 | 14.12 | 2.03 | 1081.12 | 147.25 | 108.11 | 26.82 | 7.75 | 2.86 |
| 200 x 100 x 25 x 3,20 | 200 | 100 | 25 | 3.20 | 3.20 | 13.73 | 10.78 | 2.99 | 890.69 | 185.46 | 89.07 | 27.71 | 8.06 | 3.68 |
| 200 x 100 x 25 x 4,75 | 200 | 100 | 25 | 4.75 | 4.75 | 19.89 | 15.61 | 2.82 | 1262.24 | 256.36 | 126.22 | 38.23 | 7.97 | 3.59 |
| 200 x 100 x 30 x 4,75 | 200 | 100 | 30 | 4.75 | 4.75 | 20.37 | 15.99 | 2.97 | 1287.22 | 275.78 | 128.72 | 42.07 | 7.95 | 3.68 |
| 220 x 60 x 20 x 2,00 | 220 | 60 | 20 | 2.00 | 2.00 | 7.34 | 5.76 | 1.38 | 511.50 | 33.84 | 46.50 | 7.65 | 8.35 | 2.15 |
| 220 x 60 x 20 x 2,50 | 220 | 60 | 20 | 2.50 | 2.50 | 9.09 | 7.13 | 1.33 | 628.10 | 40.87 | 57.10 | 9.24 | 8.31 | 2.12 |
| 220 x 60 x 20 x 3,20 | 220 | 60 | 20 | 3.20 | 3.20 | 11.49 | 9.02 | 1.26 | 783.94 | 49.82 | 71.27 | 11.26 | 8.26 | 2.08 |
| 220 x 70 x 25 x 2,00 | 220 | 70 | 25 | 2.00 | 2.00 | 7.94 | 6.23 | 1.84 | 574.34 | 53.95 | 52.21 | 10.89 | 8.51 | 2.61 |
| 220 x 70 x 25 x 2,50 | 220 | 70 | 25 | 2.50 | 2.50 | 9.84 | 7.72 | 1.79 | 706.38 | 65.54 | 64.22 | 13.22 | 8.47 | 2.58 |
| 220 x 70 x 25 x 3,20 | 220 | 70 | 25 | 3.20 | 3.20 | 12.45 | 9.77 | 1.72 | 883.65 | 80.54 | 80.33 | 16.24 | 8.43 | 2.54 |
| 220 x 80 x 25 x 2,00 | 220 | 80 | 25 | 2.00 | 2.00 | 8.34 | 6.54 | 2.21 | 621.77 | 74.04 | 56.52 | 13.24 | 8.64 | 2.98 |

PERFIL C

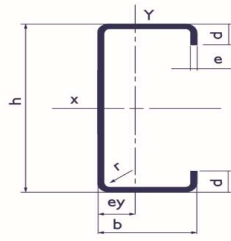
MEDIDAS Y CARACTERÍSTICAS GEOMÉTRICAS



| Designación del Perfil | Altura (alma) | Ala (rama) | Ala Rig. (rigidizador) | Espesor | Radio de Acuerdo | Area nominal de la sección | Masa Nominal | Distancias al Centro de Gravedad (1) | Momentos de Inercia (1) | | Módulos Resistente (1) | | Radios de Giro (1) | |
|------------------------|---------------|------------|------------------------|---------|------------------|----------------------------|--------------|--------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------|----------------------|
| | h mm | b mm | d mm | e mm | r mm | S Cm ² | G Kg/m | e _y Cm | I _x Cm ⁴ | I _y Cm ⁴ | W _x Cm ³ | W _y Cm ³ | i _x Cm | i _y Cm |
| 220 x 80 x 25 x 2.50 | 220 | 80 | 25 | 2.50 | 2.50 | 10.34 | 8.12 | 2.16 | 765.36 | 90.14 | 69.58 | 16.12 | 8.60 | 2.95 |
| 220 x 80 x 25 x 3.20 | 220 | 80 | 25 | 3.20 | 3.20 | 13.09 | 10.27 | 2.08 | 958.53 | 111.14 | 87.14 | 19.86 | 8.56 | 2.91 |
| 220 x 80 x 25 x 4,75 | 220 | 80 | 25 | 4.75 | 4.75 | 18.94 | 14.87 | 1.92 | 1355.24 | 151.93 | 123.20 | 27.11 | 8.46 | 2.83 |
| 220 x 90 x 25 x 2.00 | 220 | 90 | 25 | 2.00 | 2.00 | 8.74 | 6.86 | 2.59 | 669.39 | 98.10 | 60.85 | 15.79 | 8.75 | 3.35 |
| 220 x 90 x 25 x 2.50 | 220 | 90 | 25 | 2.50 | 2.50 | 10.84 | 8.51 | 2.53 | 824.66 | 119.74 | 74.97 | 19.26 | 8.72 | 3.32 |
| 220 x 90 x 25 x 3.20 | 220 | 90 | 25 | 3.20 | 3.20 | 13.73 | 10.78 | 2.46 | 1034.07 | 148.17 | 94.01 | 23.82 | 8.68 | 3.29 |

PERFIL C

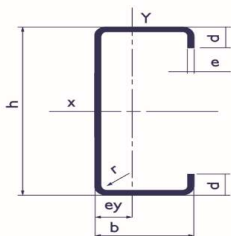
MEDIDAS Y CARACTERÍSTICAS GEOMÉTRICAS



| Designación del Perfil | Altura (alma) | Ala (rama) | Ala Rig. (rigidizador) | Espesor | Radio de Acuerdo | Area nominal de la sección | Masa Nominal | Distancias al Centro de Gravedad (1) | Momentos de Inercia (1) | | Módulos Resistente (1) | | Radios de Giro (1) | |
|------------------------|---------------|------------|------------------------|---------|------------------|----------------------------|--------------|--------------------------------------|-------------------------|--------------------|------------------------|--------------------|--------------------|-------|
| | h mm | b mm | d mm | e mm | r mm | S Cm ² | G Kg/m | ey Cm | Ix Cm ⁴ | Iy Cm ⁴ | Wx Cm ³ | Wy Cm ³ | Ix Cm | Iy Cm |
| 240 x 80 x 20 x 2.00 | 240 | 80 | 20 | 2.00 | 2.00 | 8.54 | 6.70 | 1.97 | 743.13 | 69.66 | 61.93 | 11.95 | 9.33 | 2.86 |
| 240 x 80 x 20 x 2.50 | 240 | 80 | 20 | 2.50 | 2.50 | 10.59 | 8.31 | 1.92 | 914.98 | 84.68 | 76.25 | 14.53 | 9.30 | 2.83 |
| 240 x 80 x 20 x 3.20 | 240 | 80 | 20 | 3.20 | 3.20 | 13.41 | 10.52 | 1.85 | 1146.37 | 104.16 | 95.53 | 17.86 | 9.25 | 2.79 |
| 240 x 80 x 25 x 2.00 | 240 | 80 | 25 | 2.00 | 2.00 | 8.74 | 6.86 | 2.10 | 762.25 | 76.11 | 63.52 | 13.36 | 9.34 | 2.95 |
| 240 x 80 x 25 x 2.50 | 240 | 80 | 25 | 2.50 | 2.50 | 10.84 | 8.51 | 2.05 | 938.94 | 92.71 | 78.24 | 16.27 | 9.31 | 2.92 |
| 240 x 80 x 25 x 3.20 | 240 | 80 | 25 | 3.20 | 3.20 | 13.73 | 10.78 | 1.98 | 1177.15 | 114.38 | 98.10 | 20.06 | 9.26 | 2.89 |
| 240 x 80 x 25 x 4,75 | 240 | 80 | 25 | 4.75 | 4.75 | 19.89 | 15.61 | 1.82 | 1667.25 | 156.16 | 138.94 | 27.36 | 9.16 | 2.80 |
| 240 x 80 x 30 x 2,50 | 240 | 80 | 30 | 2.50 | 2.50 | 11.09 | 8.70 | 2.18 | 960.33 | 100.30 | 80.03 | 18.00 | 9.31 | 3.01 |
| 240 x 80 x 30 x 3,20 | 240 | 80 | 30 | 3.20 | 3.20 | 14.05 | 11.03 | 2.11 | 1204.54 | 123.98 | 100.38 | 22.24 | 9.26 | 2.97 |
| 240 x 90 x 25 x 2.00 | 240 | 90 | 25 | 2.00 | 2.00 | 9.14 | 7.17 | 2.47 | 818.89 | 100.86 | 68.24 | 15.93 | 9.47 | 3.32 |
| 240 x 90 x 25 x 2.50 | 240 | 90 | 25 | 2.50 | 2.50 | 11.34 | 8.90 | 2.42 | 1009.45 | 123.12 | 84.12 | 19.44 | 9.44 | 3.30 |
| 240 x 90 x 25 x 3.20 | 240 | 90 | 25 | 3.20 | 3.20 | 14.37 | 11.28 | 2.34 | 1266.88 | 152.37 | 105.57 | 24.05 | 9.39 | 3.26 |
| 240 x 90 x 30 x 2.50 | 240 | 90 | 30 | 2.50 | 2.50 | 11.59 | 9.10 | 2.55 | 1030.84 | 132.55 | 85.90 | 21.38 | 9.43 | 3.38 |
| 240 x 90 x 30 x 3.20 | 240 | 90 | 30 | 3.20 | 3.20 | 14.69 | 11.53 | 2.48 | 1294.26 | 164.32 | 107.86 | 26.49 | 9.39 | 3.34 |
| 240 x 100 x 25 x 2.00 | 240 | 100 | 25 | 2.00 | 2.00 | 9.54 | 7.49 | 2.85 | 875.54 | 129.88 | 72.96 | 18.68 | 9.58 | 3.69 |
| 240 x 100 x 25 x 2.50 | 240 | 100 | 25 | 2.50 | 2.50 | 11.84 | 9.29 | 2.79 | 1079.96 | 158.82 | 90.00 | 22.83 | 9.55 | 3.66 |
| 240 x 100 x 25 x 3.20 | 240 | 100 | 25 | 3.20 | 3.20 | 15.01 | 11.78 | 2.72 | 1356.60 | 197.07 | 113.05 | 28.31 | 9.51 | 3.62 |
| 260 x 80 x 15 x 1,60 | 260 | 80 | 15 | 1.60 | 1.60 | 7.03 | 5.52 | 1.79 | 705.62 | 52.76 | 54.28 | 8.72 | 10.02 | 2.74 |
| 260 x 80 x 15 x 2,00 | 260 | 80 | 15 | 2.00 | 2.00 | 8.74 | 6.86 | 1.75 | 871.67 | 64.42 | 67.05 | 10.64 | 9.99 | 2.72 |
| 260 x 80 x 20 x 1,60 | 260 | 80 | 20 | 1.60 | 1.60 | 7.19 | 5.65 | 1.92 | 725.87 | 58.34 | 55.84 | 9.86 | 10.05 | 2.85 |
| 260 x 80 x 20 x 2,00 | 260 | 80 | 20 | 2.00 | 2.00 | 8.94 | 7.02 | 1.88 | 896.88 | 71.30 | 68.99 | 12.04 | 10.02 | 2.82 |
| 260 x 80 x 20 x 2,50 | 260 | 80 | 20 | 2.50 | 2.50 | 11.09 | 8.70 | 1.83 | 1104.94 | 86.68 | 85.00 | 14.64 | 9.98 | 2.80 |
| 260 x 80 x 20 x 3,20 | 260 | 80 | 20 | 3.20 | 3.20 | 14.05 | 11.03 | 1.76 | 1385.52 | 106.62 | 106.58 | 18.00 | 9.93 | 2.76 |
| 260 x 80 x 20 x 4,75 | 260 | 80 | 20 | 4.75 | 4.75 | 20.37 | 15.99 | 1.59 | 1964.13 | 144.96 | 151.09 | 24.44 | 9.82 | 2.67 |
| 260 x 80 x 40 x 2,50 | 260 | 80 | 40 | 2.50 | 2.50 | 12.09 | 9.49 | 2.31 | 1205.47 | 117.59 | 92.73 | 21.61 | 9.99 | 3.12 |
| 260 x 80 x 40 x 3,20 | 260 | 80 | 40 | 3.20 | 3.20 | 15.33 | 12.03 | 2.24 | 1514.34 | 145.78 | 116.49 | 26.78 | 9.94 | 3.08 |
| 260 x 80 x 40 x 4,75 | 260 | 80 | 40 | 4.75 | 4.75 | 22.27 | 17.48 | 2.08 | 2154.77 | 201.32 | 165.75 | 36.97 | 9.84 | 3.01 |
| 260 x 90 x 25 x 2,00 | 260 | 90 | 25 | 2.00 | 2.00 | 9.54 | 7.49 | 2.36 | 986.67 | 103.39 | 75.90 | 16.06 | 10.17 | 3.29 |
| 260 x 90 x 25 x 2,50 | 260 | 90 | 25 | 2.50 | 2.50 | 11.84 | 9.29 | 2.31 | 1216.92 | 126.22 | 93.61 | 19.60 | 10.14 | 3.27 |
| 260 x 90 x 25 x 3,20 | 260 | 90 | 25 | 3.20 | 3.20 | 15.13 | 11.88 | 2.31 | 1549.52 | 164.84 | 119.19 | 25.08 | 10.12 | 3.30 |
| 260 x 100 x 25 x 2,00 | 260 | 100 | 25 | 2.00 | 2.00 | 9.94 | 7.80 | 2.73 | 1053.24 | 133.22 | 81.02 | 18.84 | 10.30 | 3.66 |
| 260 x 100 x 25 x 2,50 | 260 | 100 | 25 | 2.50 | 2.50 | 12.34 | 9.69 | 2.68 | 1299.80 | 162.91 | 99.98 | 23.03 | 10.26 | 3.63 |
| 260 x 100 x 25 x 3,20 | 260 | 100 | 25 | 3.20 | 3.20 | 15.65 | 12.28 | 2.60 | 1633.94 | 202.16 | 125.69 | 28.56 | 10.22 | 3.59 |
| 260 x 100 x 30 x 2,50 | 260 | 100 | 30 | 2.50 | 2.50 | 12.59 | 9.88 | 2.81 | 1326.07 | 174.75 | 102.01 | 25.19 | 10.26 | 3.73 |
| 260 x 100 x 30 x 3,20 | 260 | 100 | 30 | 3.20 | 3.20 | 15.97 | 12.53 | 2.74 | 1667.56 | 217.17 | 128.27 | 31.29 | 10.22 | 3.69 |
| 280 x 80 x 20 x 2,00 | 280 | 80 | 20 | 2.00 | 2.00 | 9.34 | 7.33 | 1.80 | 1068.62 | 72.85 | 76.33 | 12.13 | 10.70 | 2.79 |
| 280 x 80 x 20 x 2,50 | 280 | 80 | 20 | 2.50 | 2.50 | 11.59 | 9.10 | 1.74 | 1317.29 | 88.59 | 94.09 | 14.75 | 10.66 | 2.76 |
| 280 x 80 x 20 x 3,20 | 280 | 80 | 20 | 3.20 | 3.20 | 14.69 | 11.53 | 1.67 | 1653.19 | 109.04 | 118.08 | 18.15 | 10.61 | 2.72 |
| 280 x 90 x 25 x 2,00 | 280 | 90 | 25 | 2.00 | 2.00 | 9.94 | 7.80 | 2.26 | 1173.52 | 105.72 | 83.82 | 16.17 | 10.87 | 2.26 |
| 280 x 90 x 25 x 2,50 | 280 | 90 | 25 | 2.50 | 2.50 | 12.34 | 9.69 | 2.21 | 1448.07 | 129.06 | 103.43 | 19.74 | 10.83 | 3.23 |
| 280 x 90 x 25 x 3,20 | 280 | 90 | 25 | 3.20 | 3.20 | 15.65 | 12.28 | 2.14 | 1819.97 | 159.75 | 130.00 | 24.42 | 10.79 | 3.20 |
| 280 x 100 x 25 x 2,00 | 280 | 100 | 25 | 2.00 | 2.00 | 10.34 | 8.11 | 2.62 | 1250.81 | 136.29 | 89.34 | 18.98 | 11.00 | 3.63 |
| 280 x 100 x 25 x 2,50 | 280 | 100 | 25 | 2.50 | 2.50 | 12.84 | 10.08 | 2.57 | 1544.33 | 166.69 | 110.31 | 23.20 | 10.97 | 3.60 |
| 280 x 100 x 25 x 3,20 | 280 | 100 | 25 | 3.20 | 3.20 | 16.29 | 12.79 | 2.49 | 1942.57 | 206.85 | 138.75 | 28.78 | 10.92 | 3.56 |

PERFIL C

MEDIDAS Y CARACTERÍSTICAS GEOMÉTRICAS



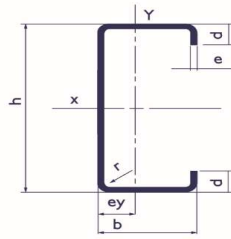
| Designación del Perfil | Altura (alma) | Ala (rama) | Ala Rig. (rigidizador) | Espesor | Radio de Acuerdo | Área nominal de la sección | Masa Nominal | Distancias al Centro de Gravedad (1) | Momentos de Inercia (1) | | Módulos Resistente (1) | | Radios de Giro (1) | |
|------------------------|---------------|------------|------------------------|---------|------------------|----------------------------|--------------|--------------------------------------|-------------------------|--------------------|------------------------|--------------------|--------------------|-------|
| | h mm | b mm | d mm | e mm | r mm | S cm ² | G Kg/m | ey Cm | Ix Cm ⁴ | Iy Cm ⁴ | Wx Cm ³ | Wy Cm ³ | Ix Cm | Iy Cm |
| 300 x 80 x 20 x 2.00 | 300 | 80 | 20 | 2.00 | 2.00 | 9.74 | 7.64 | 1.72 | 1258.80 | 74.18 | 83.92 | 12.20 | 11.37 | 2.76 |
| 300 x 80 x 20 x 2.50 | 300 | 80 | 20 | 2.50 | 2.50 | 12.09 | 9.49 | 1.67 | 1552.38 | 90.18 | 103.49 | 14.82 | 11.33 | 2.73 |
| 300 x 80 x 20 x 3.20 | 300 | 80 | 20 | 3.20 | 3.20 | 15.33 | 12.03 | 1.60 | 1949.38 | 110.92 | 129.96 | 18.23 | 11.28 | 2.69 |
| 300 x 80 x 30 x 3.20 | 300 | 80 | 30 | 3.20 | 3.20 | 15.97 | 12.53 | 1.83 | 2049.89 | 132.67 | 136.66 | 22.69 | 11.33 | 2.88 |
| 300 x 90 x 20 x 3,20 | 300 | 90 | 20 | 3.20 | 3.20 | 15.97 | 12.53 | 1.92 | 2090.79 | 149.33 | 139.39 | 22.09 | 11.44 | 3.06 |
| 300 x 90 x 20 x 4,75 | 300 | 90 | 20 | 4.75 | 4.75 | 23.22 | 18.22 | 1.76 | 2979.39 | 204.38 | 198.63 | 30.20 | 11.33 | 2.97 |
| 300 x 90 x 25 x 2.00 | 300 | 90 | 25 | 2.00 | 2.00 | 10.34 | 8.11 | 2.17 | 1380.25 | 107.87 | 92.02 | 16.27 | 11.56 | 3.23 |
| 300 x 90 x 25 x 2.50 | 300 | 90 | 25 | 2.50 | 2.50 | 12.84 | 10.08 | 2.12 | 1703.89 | 139.69 | 113.59 | 19.86 | 11.52 | 3.49 |
| 300 x 90 x 25 x 3.20 | 300 | 90 | 25 | 3.20 | 3.20 | 16.29 | 12.79 | 2.05 | 2142.82 | 163.00 | 142.85 | 24.85 | 11.47 | 3.16 |
| 300 x 90 x 25 x 4,75 | 300 | 90 | 25 | 4.75 | 4.75 | 23.69 | 18.60 | 1.89 | 3056.61 | 224.23 | 203.77 | 33.79 | 11.36 | 3.08 |
| 300 x 90 x 30 x 2,50 | 300 | 90 | 30 | 2.50 | 2.50 | 13.09 | 10.27 | 2.24 | 1741.41 | 142.07 | 116.09 | 21.84 | 11.53 | 3.29 |
| 300 x 90 x 30 x 3,20 | 300 | 90 | 30 | 3.20 | 3.20 | 16.61 | 13.04 | 2.17 | 2190.84 | 176.15 | 146.06 | 27.07 | 11.49 | 3.26 |
| 300 x 90 x 30 x 4,75 | 300 | 90 | 30 | 4.75 | 4.75 | 24.17 | 18.97 | 2.01 | 3127.90 | 243.31 | 208.53 | 37.37 | 11.38 | 3.17 |
| 300 x 90 x 40 x 3,20 | 300 | 90 | 40 | 3.20 | 3.20 | 17.25 | 13.54 | 2.41 | 2275.54 | 200.98 | 151.70 | 32.05 | 11.49 | 3.41 |
| 300 x 90 x 40 x 4,75 | 300 | 90 | 40 | 4.75 | 4.75 | 25.12 | 19.72 | 2.25 | 3252.62 | 279.30 | 216.91 | 44.52 | 11.38 | 3.33 |
| 300 x 100 x 25 x 2.00 | 300 | 100 | 25 | 2.00 | 2.00 | 10.74 | 8.43 | 2.52 | 1469.05 | 139.14 | 97.14 | 19.11 | 11.70 | 3.60 |
| 300 x 100 x 25 x 2.50 | 300 | 100 | 25 | 2.50 | 2.50 | 13.34 | 10.47 | 2.47 | 1814.53 | 170.18 | 120.97 | 23.36 | 11.66 | 3.57 |
| 300 x 100 x 25 x 3.20 | 300 | 100 | 25 | 3.20 | 3.20 | 16.93 | 13.29 | 2.39 | 2283.77 | 211.19 | 152.25 | 28.98 | 11.62 | 3.53 |
| 300 x 100 x 30 x 2,00 | 300 | 100 | 30 | 2.00 | 2.00 | 10.94 | 8.59 | 2.65 | 1499.07 | 149.27 | 99.94 | 20.88 | 11.71 | 3.69 |
| 300 x 100 x 30 x 3,20 | 300 | 100 | 30 | 3.20 | 3.20 | 17.25 | 13.54 | 2.52 | 2331.79 | 227.15 | 155.45 | 31.75 | 11.63 | 3.63 |
| 320 x 80 x 20 x 2.00 | 320 | 80 | 20 | 2.00 | 2.00 | 10.14 | 7.96 | 1.65 | 1468.57 | 75.45 | 91.79 | 12.26 | 12.04 | 2.73 |
| 320 x 80 x 20 x 2.50 | 320 | 80 | 20 | 2.50 | 2.50 | 12.59 | 9.88 | 1.60 | 1811.86 | 91.72 | 113.24 | 14.90 | 12.00 | 2.70 |
| 320 x 80 x 20 x 3.20 | 320 | 80 | 20 | 3.20 | 3.20 | 15.97 | 12.53 | 1.53 | 2276.65 | 112.81 | 142.29 | 18.33 | 11.94 | 2.66 |
| 320 x 90 x 25 x 2.00 | 320 | 90 | 25 | 2.00 | 2.00 | 10.74 | 8.43 | 2.09 | 1607.65 | 109.86 | 100.48 | 16.37 | 12.24 | 3.20 |
| 320 x 90 x 25 x 2.50 | 320 | 90 | 25 | 2.50 | 2.50 | 13.34 | 10.47 | 2.04 | 1985.40 | 134.12 | 124.09 | 19.98 | 12.20 | 3.17 |
| 320 x 90 x 25 x 3.20 | 320 | 90 | 25 | 3.20 | 3.20 | 16.93 | 13.29 | 1.96 | 2498.24 | 166.08 | 156.14 | 24.72 | 12.15 | 3.13 |
| 320 x 100 x 25 x 2.00 | 320 | 100 | 25 | 2.00 | 2.00 | 11.14 | 8.74 | 2.42 | 1708.77 | 141.79 | 106.80 | 19.22 | 12.39 | 3.57 |
| 320 x 100 x 25 x 2.50 | 320 | 100 | 25 | 2.50 | 2.50 | 13.84 | 10.86 | 2.37 | 2111.41 | 173.41 | 131.96 | 23.50 | 12.35 | 3.54 |
| 320 x 100 x 25 x 3.20 | 320 | 100 | 25 | 3.20 | 3.20 | 17.57 | 13.79 | 2.30 | 2658.82 | 215.22 | 166.18 | 29.16 | 12.30 | 3.50 |
| 340 x 80 x 20 x 2.00 | 340 | 80 | 20 | 2.00 | 2.00 | 10.54 | 8.27 | 1.58 | 1698.76 | 76.67 | 99.93 | 12.33 | 12.70 | 2.70 |
| 340 x 80 x 20 x 2.50 | 340 | 80 | 20 | 2.50 | 2.50 | 13.09 | 10.27 | 1.53 | 2096.80 | 93.23 | 123.34 | 14.99 | 11.66 | 2.67 |
| 340 x 80 x 20 x 3.20 | 340 | 80 | 20 | 3.20 | 3.20 | 16.61 | 13.04 | 1.49 | 2636.39 | 114.75 | 155.08 | 18.45 | 12.60 | 2.63 |
| 340 x 90 x 25 x 2.00 | 340 | 90 | 25 | 2.00 | 2.00 | 11.14 | 8.74 | 2.01 | 1856.52 | 111.71 | 109.21 | 16.45 | 12.91 | 3.17 |
| 340 x 90 x 25 x 2.50 | 340 | 90 | 25 | 2.50 | 2.50 | 13.84 | 10.86 | 1.96 | 2293.58 | 136.37 | 134.92 | 20.08 | 12.87 | 3.14 |
| 340 x 90 x 25 x 3.20 | 340 | 90 | 25 | 3.20 | 3.20 | 17.57 | 13.79 | 1.89 | 2887.51 | 168.80 | 169.85 | 24.85 | 12.82 | 3.10 |
| 340 x 100 x 25 x 2.00 | 340 | 100 | 25 | 2.00 | 2.00 | 11.54 | 9.06 | 2.34 | 1970.77 | 144.25 | 115.93 | 19.33 | 13.07 | 3.54 |
| 340 x 100 x 25 x 2.50 | 340 | 100 | 25 | 2.50 | 2.50 | 14.34 | 11.26 | 2.29 | 2435.97 | 174.42 | 143.29 | 23.63 | 13.03 | 3.51 |
| 340 x 100 x 25 x 3.20 | 340 | 100 | 25 | 3.20 | 3.20 | 18.21 | 14.29 | 2.21 | 3069.01 | 218.96 | 180.53 | 29.32 | 12.98 | 3.47 |
| 350 x 100 x 25 x 2.00 | 350 | 100 | 25 | 2.00 | 2.00 | 11.74 | 9.21 | 2.30 | 2110.37 | 145.42 | 120.59 | 19.38 | 13.41 | 3.52 |
| 350 x 100 x 25 x 2.50 | 350 | 100 | 25 | 2.50 | 2.50 | 14.59 | 11.45 | 2.24 | 2608.94 | 177.85 | 149.08 | 23.69 | 13.37 | 3.49 |
| 350 x 100 x 25 x 3.20 | 350 | 100 | 25 | 3.20 | 3.20 | 18.53 | 14.54 | 2.17 | 3287.68 | 220.73 | 187.87 | 29.40 | 13.32 | 3.45 |
| 360 x 100 x 20 x 3,20 | 360 | 100 | 20 | 3.20 | 3.20 | 18.53 | 14.54 | 2.00 | 3436.23 | 204.67 | 190.90 | 26.67 | 13.62 | 3.32 |
| 360 x 100 x 20 x 4,75 | 360 | 100 | 20 | 4.75 | 4.75 | 27.02 | 21.21 | 1.85 | 4922.88 | 282.02 | 273.49 | 36.72 | 13.50 | 3.23 |
| 360 x 100 x 25 x 3,20 | 360 | 100 | 25 | 3.20 | 3.20 | 18.85 | 14.79 | 2.13 | 3515.62 | 222.44 | 195.31 | 29.47 | 13.66 | 3.44 |
| 360 x 100 x 25 x 4,75 | 360 | 100 | 25 | 4.75 | 4.75 | 27.49 | 21.58 | 1.97 | 5040.72 | 307.88 | 280.04 | 40.77 | 13.54 | 3.35 |
| 360 x 100 x 30 x 3,20 | 360 | 100 | 30 | 3.20 | 3.20 | 19.17 | 15.05 | 2.26 | 3590.04 | 236.62 | 199.45 | 32.28 | 13.69 | 3.54 |
| 360 x 100 x 30 x 4,75 | 360 | 100 | 30 | 4.75 | 4.75 | 27.97 | 21.95 | 2.10 | 5151.20 | 332.86 | 286.18 | 44.82 | 13.57 | 3.45 |
| 360 x 100 x 40 x 3,20 | 360 | 100 | 40 | 3.20 | 3.20 | 19.81 | 15.55 | 2.49 | 3724.66 | 272.30 | 206.93 | 37.88 | 13.71 | 3.71 |
| 360 x 100 x 40 x 4,75 | 360 | 100 | 40 | 4.75 | 4.75 | 28.92 | 22.70 | 2.33 | 5351.01 | 380.37 | 297.28 | 52.90 | 13.60 | 3.63 |

(#) Perfiles normalizados según Norma IRAM IAS U 500-206 - 1 y 3

Largo Mínimo de Barra: 4 mts.

PERFIL C

MEDIDAS Y CARACTERÍSTICAS GEOMÉTRICAS



| Designación del Perfil | Altura (alma) | Ala (rama) | Ala Rig. (rigidizador) | Espesor | Radio de Acuerdo | Area nominal de la sección | Masa Nominal | Distancias al Centro de Gravedad (1) | Momentos de Inercia (1) | | Módulos Resistente (1) | | Radios de Giro (1) | |
|------------------------|---------------|------------|------------------------|---------|------------------|----------------------------|--------------|--------------------------------------|-------------------------|-----------------|------------------------|-----------------|--------------------|----------------|
| | h | b | d | e | r | S | G | e _y | I _x | I _y | W _x | W _y | i _x | i _y |
| | mm | mm | mm | mm | mm | Cm ² | Kg/m | Cm | Cm ⁴ | Cm ⁴ | Cm ³ | Cm ³ | Cm | Cm |

Calidades de Acero F24/F26.

(1) Los valores indicados son a título informativo.

Troquelado: corte parcial a partir de 2 mts.

Medidas que no figuran en esta tabla consultar factibilidad de fabricación.

Largo Standard: 12 mts.

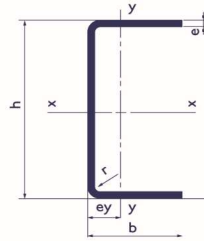
Largo 13 mts.: en Alturas mayores o iguales a 120 mm, consultar según medidas y espesores.

Largo 15 mts.: en Alturas mayores o iguales a 140 mm, consultar según medidas, espesores y volumen mínimo.

Tolerancia en el largo -0 / +30 mm. Para largos especiales consultar por tolerancia restringida.

PERFIL U

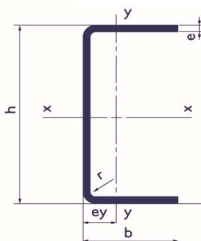
MEDIDAS Y CARACTERÍSTICAS GEOMÉTRICAS



| Designación del Perfil | Altura (alma) | Ala (rama) | Espesor | Radio de Acuerdo | Área nominal de la Sección | Masa Nominal | Distancias al centro de gravedad (1) | Momentos de Inercia (1) | | Módulos Resistente (1) | | Radios de Giro (1) | |
|------------------------|---------------|------------|---------|------------------|----------------------------|--------------|--------------------------------------|-------------------------|-----------------|------------------------|-----------------|--------------------|----------------|
| | h | b | e | r | S | G | ey | I _x | I _y | W _x | W _y | i _x | i _y |
| | mm | mm | mm | mm | Cm ² | Kg/m | Cm | Cm ⁴ | Cm ⁴ | Cm ³ | Cm ³ | Cm | Cm |
| (#) 100 x 50 x 2.00 | 100 | 50 | 2.00 | 2.00 | 3.87 | 3.04 | 1.14 | 61.48 | 9.72 | 12.30 | 2.66 | 3.99 | 1.59 |
| (#) 120 x 50 x 1.60 | 120 | 50 | 1.60 | 1.60 | 3.44 | 2.70 | 1.05 | 76.14 | 8.33 | 12.69 | 2.20 | 4.71 | 1.56 |
| (#) 120 x 50 x 2.00 | 120 | 50 | 2.00 | 2.00 | 4.27 | 3.35 | 1.03 | 93.79 | 10.28 | 15.63 | 2.72 | 4.69 | 1.55 |
| (#) 120 x 50 x 2.50 | 120 | 50 | 2.50 | 2.50 | 5.29 | 4.16 | 1.00 | 115.09 | 12.63 | 19.18 | 3.37 | 4.66 | 1.54 |
| (#) 120 x 50 x 3.20 | 120 | 50 | 3.20 | 3.20 | 6.70 | 5.26 | 0.96 | 143.51 | 15.78 | 23.92 | 4.24 | 4.63 | 1.53 |
| (#) 140 x 50 x 2.00 | 140 | 50 | 2.00 | 2.00 | 4.67 | 3.66 | 0.93 | 134.63 | 10.74 | 19.23 | 2.78 | 5.37 | 1.52 |
| (#) 140 x 50 x 2.50 | 140 | 50 | 2.50 | 2.50 | 5.79 | 4.55 | 0.90 | 165.49 | 13.21 | 23.64 | 3.43 | 5.34 | 1.51 |
| (#) 140 x 50 x 3.20 | 140 | 50 | 3.20 | 3.20 | 7.34 | 5.76 | 0.86 | 206.87 | 16.52 | 29.55 | 4.33 | 5.31 | 1.50 |
| 140 x 60 x 1.60 | 140 | 60 | 1.60 | 1.60 | 4.07 | 3.19 | 1.29 | 124.47 | 14.41 | 17.78 | 3.17 | 5.52 | 1.88 |
| (#) 140 x 60 x 2.00 | 140 | 60 | 2.00 | 2.00 | 5.07 | 3.98 | 1.27 | 153.67 | 17.81 | 21.95 | 3.94 | 5.51 | 1.87 |
| (#) 140 x 60 x 2.50 | 140 | 60 | 2.50 | 2.50 | 6.29 | 4.94 | 1.25 | 189.12 | 21.95 | 27.02 | 4.88 | 5.48 | 1.87 |
| (#) 140 x 60 x 3.20 | 140 | 60 | 3.20 | 3.20 | 7.98 | 6.27 | 1.21 | 236.82 | 27.54 | 33.83 | 6.16 | 5.45 | 1.86 |
| (#) 140 x 70 x 3.20 | 140 | 70 | 3.20 | 3.20 | 8.62 | 6.77 | 1.58 | 266.76 | 42.24 | 38.11 | 8.28 | 5.56 | 2.21 |
| 140 x 75 x 2.50 | 140 | 75 | 2.50 | 2.50 | 7.04 | 5.52 | 1.74 | 218.43 | 44.93 | 31.20 | 7.80 | 5.57 | 2.53 |
| (#) 160 x 50 x 2.00 | 160 | 50 | 2.00 | 2.00 | 5.07 | 3.98 | 0.85 | 184.80 | 11.13 | 23.10 | 2.82 | 6.04 | 1.48 |
| (#) 160 x 50 x 2.50 | 160 | 50 | 2.50 | 2.50 | 6.29 | 4.94 | 0.82 | 227.48 | 13.69 | 28.44 | 3.48 | 6.01 | 1.47 |
| (#) 160 x 50 x 3.20 | 160 | 50 | 3.20 | 3.20 | 7.98 | 6.27 | 0.78 | 284.92 | 17.13 | 35.61 | 4.39 | 5.97 | 1.46 |
| 160 x 60 x 1.60 | 160 | 60 | 1.60 | 1.60 | 4.39 | 3.45 | 1.19 | 169.74 | 14.97 | 21.21 | 3.22 | 6.21 | 1.84 |
| (#) 160 x 60 x 2.00 | 160 | 60 | 2.00 | 2.00 | 5.47 | 4.29 | 1.17 | 209.77 | 18.51 | 26.22 | 4.00 | 6.19 | 1.84 |
| (#) 160 x 60 x 2.50 | 160 | 60 | 2.50 | 2.50 | 6.79 | 5.33 | 1.15 | 258.49 | 22.83 | 32.31 | 4.96 | 6.17 | 1.83 |
| (#) 160 x 60 x 3.20 | 160 | 60 | 3.20 | 3.20 | 8.62 | 6.77 | 1.11 | 324.26 | 28.65 | 40.53 | 6.27 | 6.13 | 1.82 |
| 160 x 60 x 4.75 | 160 | 60 | 4.75 | 4.75 | 12.55 | 9.85 | 1.01 | 460.32 | 40.80 | 57.54 | 9.05 | 6.05 | 1.80 |
| (#) 160 x 70 x 3.20 | 160 | 70 | 3.20 | 3.20 | 9.26 | 7.27 | 1.46 | 363.60 | 44.04 | 45.45 | 8.43 | 6.27 | 2.18 |
| (#) 160 x 80 x 3.20 | 160 | 80 | 3.20 | 3.20 | 9.90 | 7.77 | 1.83 | 402.93 | 63.70 | 50.37 | 10.88 | 6.38 | 2.54 |
| 170 x 50 x 4,75 | 170 | 50 | 4.75 | 4.75 | 12.08 | 9.49 | 0.66 | 467.48 | 24.62 | 55.00 | 6.36 | 6.22 | 1.43 |
| 170 x 60 x 1.60 | 170 | 60 | 1.60 | 1.60 | 4.55 | 3.57 | 1.15 | 195.63 | 15.22 | 23.01 | 3.24 | 6.55 | 1.82 |
| 170 x 60 x 2.00 | 170 | 60 | 2.00 | 2.00 | 5.66 | 4.44 | 1.12 | 241.90 | 18.83 | 28.45 | 4.03 | 6.53 | 1.82 |
| 170 x 60 x 2.50 | 170 | 60 | 2.50 | 2.50 | 7.04 | 5.52 | 1.10 | 298.27 | 23.22 | 35.09 | 4.99 | 6.50 | 1.81 |
| 170 x 60 x 3.20 | 170 | 60 | 3.20 | 3.20 | 8.94 | 7.02 | 1.06 | 374.50 | 29.17 | 44.06 | 6.31 | 6.47 | 1.80 |
| 170 x 60 x 4.75 | 170 | 60 | 4.75 | 4.75 | 13.03 | 10.23 | 0.97 | 532.35 | 41.52 | 62.62 | 9.12 | 6.39 | 1.78 |
| (#) 180 x 60 x 2.00 | 180 | 60 | 2.00 | 2.00 | 5.87 | 4.61 | 1.09 | 276.80 | 19.12 | 30.76 | 4.06 | 6.87 | 1.80 |
| (#) 180 x 60 x 2.50 | 180 | 60 | 2.50 | 2.50 | 7.29 | 5.73 | 1.06 | 341.44 | 23.58 | 37.94 | 5.03 | 6.84 | 1.80 |
| (#) 180 x 60 x 3.20 | 180 | 60 | 3.20 | 3.20 | 9.26 | 7.27 | 1.02 | 428.95 | 29.61 | 47.66 | 6.35 | 6.80 | 1.79 |
| 180 x 70 x 1.60 | 180 | 70 | 1.60 | 1.60 | 5.03 | 3.95 | 1.44 | 249.26 | 23.68 | 27.69 | 4.38 | 7.03 | 2.16 |
| 180 x 70 x 2.00 | 180 | 70 | 2.00 | 2.00 | 6.26 | 4.92 | 1.41 | 308.52 | 29.33 | 34.28 | 5.45 | 7.01 | 2.16 |
| 180 x 70 x 2.50 | 180 | 70 | 2.50 | 2.50 | 7.79 | 6.11 | 1.39 | 380.90 | 36.24 | 42.32 | 6.76 | 6.99 | 2.15 |
| 180 x 70 x 3.20 | 180 | 70 | 3.20 | 3.20 | 9.90 | 7.77 | 1.35 | 479.10 | 45.64 | 53.23 | 8.56 | 6.95 | 2.14 |
| 180 x 70 x 4.75 | 180 | 70 | 4.75 | 4.75 | 14.45 | 11.34 | 1.26 | 683.85 | 65.31 | 75.98 | 12.41 | 6.87 | 2.12 |
| (#) 180 x 80 x 3.20 | 180 | 80 | 3.20 | 3.20 | 10.54 | 8.28 | 1.71 | 528.97 | 66.07 | 58.77 | 11.06 | 7.08 | 2.50 |
| (#) 200 x 60 x 2.00 | 200 | 60 | 2.00 | 2.00 | 6.27 | 4.92 | 1.01 | 355.57 | 19.65 | 35.56 | 4.10 | 7.53 | 1.77 |
| (#) 200 x 60 x 2.50 | 200 | 60 | 2.50 | 2.50 | 7.79 | 6.12 | 0.98 | 438.99 | 24.23 | 43.90 | 5.08 | 7.50 | 1.76 |
| (#) 200 x 60 x 3.20 | 200 | 60 | 3.20 | 3.20 | 9.90 | 7.77 | 0.94 | 552.16 | 30.44 | 55.22 | 6.43 | 7.47 | 1.75 |
| (#) 200 x 70 x 2.50 | 200 | 70 | 2.50 | 2.50 | 8.29 | 6.51 | 1.30 | 487.75 | 37.31 | 48.77 | 6.85 | 7.67 | 2.12 |
| (#) 200 x 70 x 3.20 | 200 | 70 | 3.20 | 3.20 | 10.54 | 8.28 | 1.26 | 614.13 | 46.98 | 61.41 | 8.67 | 7.63 | 2.11 |
| 200 x 80 x 1.60 | 200 | 80 | 1.60 | 1.60 | 5.67 | 4.45 | 1.68 | 350.27 | 35.24 | 35.02 | 5.72 | 7.85 | 2.49 |
| 200 x 80 x 2.00 | 200 | 80 | 2.00 | 2.00 | 7.06 | 5.54 | 1.66 | 434.02 | 43.69 | 43.40 | 7.12 | 7.83 | 2.48 |
| 200 x 80 x 2.50 | 200 | 80 | 2.50 | 2.50 | 8.79 | 6.90 | 1.63 | 536.58 | 54.06 | 53.65 | 8.84 | 7.81 | 2.47 |
| (#) 200 x 80 x 3.20 | 200 | 80 | 3.20 | 3.20 | 11.18 | 8.78 | 1.60 | 676.10 | 68.17 | 67.61 | 11.21 | 7.78 | 2.47 |
| (#) 200 x 80 x 4.75 | 200 | 80 | 4.75 | 4.75 | 16.36 | 12.84 | 1.51 | 969.07 | 97.93 | 96.91 | 16.29 | 7.70 | 2.45 |
| 200 x 100 x 1.60 | 200 | 100 | 1.60 | 1.60 | 6.31 | 4.95 | 2.41 | 413.25 | 64.87 | 41.32 | 8.73 | 8.08 | 3.20 |
| 200 x 100 x 2.00 | 200 | 100 | 2.00 | 2.00 | 7.86 | 6.17 | 2.39 | 512.43 | 80.54 | 51.24 | 10.87 | 8.07 | 3.20 |
| 200 x 100 x 2.50 | 200 | 100 | 2.50 | 2.50 | 9.79 | 7.68 | 2.36 | 634.10 | 99.81 | 63.41 | 13.51 | 8.04 | 3.19 |
| 200 x 100 x 3.20 | 200 | 100 | 3.20 | 3.20 | 12.46 | 9.78 | 2.32 | 800.21 | 126.23 | 80.02 | 17.16 | 8.01 | 3.18 |
| 200 x 100 x 4.75 | 200 | 100 | 4.75 | 4.75 | 18.25 | 14.33 | 2.24 | 1150.71 | 182.40 | 115.07 | 25.04 | 7.93 | 3.16 |

PERFIL U

MEDIDAS Y CARACTERÍSTICAS GEOMÉTRICAS



| Designación del Perfil | Altura (alma) | Ala (rama) | Espesor | Radio de Acuerdo | Área nominal de la Sección | Masa Nominal | Distancias al centro de gravedad (1) | Momentos de Inercia (1) | | Módulos Resistente (1) | | Radios de Giro (1) | |
|------------------------|---------------|------------|---------|------------------|----------------------------|--------------|--------------------------------------|-------------------------|-----------------|------------------------|-----------------|--------------------|------|
| | h | b | | | | | | e | r | S | G | ey | ex |
| | mm | mm | mm | mm | Cm ² | Kg/m | Cm | Cm ⁴ | Cm ⁴ | Cm ³ | Cm ³ | Cm | Cm |
| (#) 220 x 50 x 3.20 | 220 | 50 | 3.20 | 3.20 | 9.90 | 7.77 | 0.60 | 619.98 | 18.50 | 56.36 | 4.53 | 7.91 | 1.37 |
| (#) 220 x 80 x 3.20 | 220 | 80 | 3.20 | 3.20 | 11.82 | 9.28 | 1.50 | 845.59 | 70.05 | 76.87 | 11.34 | 8.46 | 2.43 |
| 240 x 80 x 1.60 | 240 | 80 | 1.60 | 1.60 | 6.31 | 4.95 | 1.50 | 536.06 | 37.04 | 44.67 | 5.85 | 9.21 | 2.42 |
| (#) 240 x 80 x 2.00 | 240 | 80 | 2.00 | 2.00 | 7.87 | 6.18 | 1.49 | 664.81 | 45.93 | 55.40 | 7.28 | 9.19 | 2.42 |
| 240 x 80 x 2.50 | 240 | 80 | 2.50 | 2.50 | 9.79 | 7.69 | 1.46 | 822.86 | 56.84 | 68.57 | 9.03 | 9.17 | 2.41 |
| 240 x 80 x 3.20 | 240 | 80 | 3.20 | 3.20 | 12.46 | 9.78 | 1.42 | 1038.72 | 71.73 | 86.56 | 11.46 | 9.13 | 2.40 |
| (#) 240 x 80 x 4.75 | 240 | 80 | 4.75 | 4.75 | 18.26 | 14.33 | 1.33 | 1494.59 | 103.15 | 124.55 | 16.66 | 9.05 | 2.38 |
| 240 x 90 x 1.60 | 240 | 90 | 1.60 | 1.60 | 6.63 | 5.20 | 1.83 | 581.53 | 51.28 | 48.46 | 7.32 | 9.36 | 2.77 |
| 240 x 90 x 2.00 | 240 | 90 | 2.00 | 2.00 | 8.26 | 6.49 | 1.81 | 721.50 | 63.64 | 60.12 | 9.11 | 9.34 | 2.77 |
| 240 x 90 x 2.50 | 240 | 90 | 2.50 | 2.50 | 10.29 | 8.08 | 1.78 | 893.46 | 78.84 | 74.45 | 11.32 | 9.31 | 2.76 |
| 240 x 90 x 3.20 | 240 | 90 | 3.20 | 3.20 | 13.10 | 10.28 | 1.74 | 1128.65 | 99.65 | 94.05 | 14.37 | 9.28 | 2.75 |
| 240 x 90 x 4.75 | 240 | 90 | 4.75 | 4.75 | 19.20 | 15.07 | 1.66 | 1626.65 | 143.82 | 135.55 | 20.95 | 9.20 | 2.73 |
| (#) 260 x 80 x 2.50 | 260 | 80 | 2.50 | 2.50 | 10.29 | 8.08 | 1.38 | 994.92 | 58.03 | 76.53 | 9.11 | 9.83 | 2.37 |
| (#) 260 x 80 x 3.20 | 260 | 80 | 3.20 | 3.20 | 13.10 | 10.29 | 1.34 | 1256.79 | 73.25 | 96.68 | 11.56 | 9.79 | 2.36 |
| (#) 280 x 80 x 2.50 | 280 | 80 | 2.50 | 2.50 | 10.79 | 8.47 | 1.31 | 1187.57 | 59.11 | 84.83 | 9.18 | 10.49 | 2.34 |
| (#) 280 x 80 x 3.20 | 280 | 80 | 3.20 | 3.20 | 13.74 | 10.79 | 1.27 | 1501.06 | 74.63 | 107.22 | 11.65 | 10.45 | 2.33 |
| (#) 300 x 80 x 2.50 | 300 | 80 | 2.50 | 2.50 | 11.29 | 8.87 | 1.25 | 1401.80 | 60.10 | 93.45 | 9.24 | 11.14 | 2.31 |
| (#) 300 x 80 x 3.20 | 300 | 80 | 3.20 | 3.20 | 14.38 | 11.29 | 1.21 | 1772.81 | 75.88 | 118.19 | 11.72 | 11.10 | 2.30 |
| 300 x 90 x 3.20 | 300 | 90 | 3.20 | 3.20 | 15.02 | 11.79 | 1.50 | 1914.01 | 105.75 | 127.60 | 14.73 | 11.28 | 2.65 |
| 300 x 90 x 4.75 | 300 | 90 | 4.75 | 4.75 | 22.05 | 17.31 | 1.41 | 2769.28 | 152.78 | 184.61 | 21.49 | 11.20 | 2.63 |
| (#) 320 x 80 x 2.50 | 320 | 80 | 2.50 | 2.50 | 11.79 | 9.26 | 1.19 | 1638.63 | 61.00 | 102.41 | 9.30 | 11.79 | 2.27 |
| (#) 320 x 80 x 3.20 | 320 | 80 | 3.20 | 3.20 | 15.02 | 11.79 | 1.15 | 2073.34 | 77.03 | 129.58 | 11.80 | 11.75 | 2.26 |

(#) Perfiles normalizados según Norma IRAM IAS U 500-206 - 1 y 2

(1) Los valores indicados son a título informativo

Medidas que no figuran en esta tabla consultar factibilidad de fabricación.

Largo Mínimo de Barra: 4 metros

Largo Standard: 12 mts.

Largo 13 mts.: en Alturas mayores o iguales a 120 mm, consultar según medidas y espesores.

Largo 15 mts.: en Alturas mayores o iguales a 140 mm, consultar según medidas, espesores y volumen mínimo.

Tolerancia en el largo -0 / +30 mm. Para largos especiales consultar por tolerancia restringida.