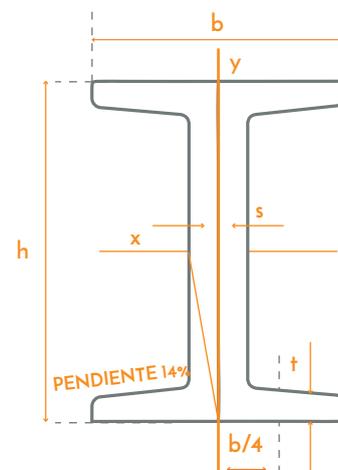


## IPN MEDIDAS VARIAS



|     | DIMENSIONES |     |       |       | SECCION | PESO          | VALORES ESTATICOS |       |                 |                 |                 |                 |    |       |
|-----|-------------|-----|-------|-------|---------|---------------|-------------------|-------|-----------------|-----------------|-----------------|-----------------|----|-------|
|     | h           | b   | s     | t     |         |               | F                 | g     | Jx              | Jy              | Wx              | Wy              | ix | iy=il |
|     | mm          | mm  | mm    | mm    |         |               | cm <sup>2</sup>   | kg/m  | cm <sup>4</sup> | cm <sup>4</sup> | cm <sup>3</sup> | cm <sup>3</sup> | cm | cm    |
| 80  | 80          | 42  | 3.90  | 5.90  | 7.50    | <b>5.90</b>   | 77                | 6.30  | 19.30           | 3               | 3.20            | 0.92            |    |       |
| 100 | 100         | 50  | 4.50  | 6.80  | 10.60   | <b>8.30</b>   | 171               | 12.20 | 34.20           | 4.90            | 4.02            | 1.07            |    |       |
| 120 | 120         | 58  | 5.10  | 7.70  | 14.20   | <b>11.10</b>  | 328               | 21.50 | 54.70           | 7.40            | 4.81            | 1.23            |    |       |
| 140 | 140         | 66  | 5.70  | 8.60  | 18.20   | <b>14.30</b>  | 573               | 35.20 | 81.90           | 10.70           | 5.61            | 1.39            |    |       |
| 160 | 160         | 74  | 6.30  | 9.50  | 22.80   | <b>17.90</b>  | 935               | 54.70 | 116.90          | 14.80           | 6.40            | 1.55            |    |       |
| 180 | 180         | 82  | 6.90  | 10.40 | 27.90   | <b>21.90</b>  | 1450              | 81.30 | 161.10          | 19.80           | 7.21            | 1.71            |    |       |
| 200 | 200         | 90  | 7.50  | 11.30 | 33.40   | <b>26.20</b>  | 2140              | 117   | 214             | 26              | 8               | 1.87            |    |       |
| 220 | 220         | 98  | 8.10  | 12.20 | 39.50   | <b>30.90</b>  | 3060              | 162   | 278.20          | 33.10           | 8.80            | 2.03            |    |       |
| 240 | 240         | 106 | 8.70  | 13.10 | 46.10   | <b>36.10</b>  | 4250              | 221   | 354.20          | 41.70           | 9.60            | 2.19            |    |       |
| 260 | 260         | 113 | 9.40  | 14.10 | 53.30   | <b>41.80</b>  | 5740              | 288   | 441.50          | 51              | 10.38           | 2.32            |    |       |
| 280 | 280         | 119 | 10.10 | 15.20 | 61      | <b>47.80</b>  | 7590              | 364   | 542.10          | 61.20           | 11.15           | 2.44            |    |       |
| 300 | 300         | 125 | 10.80 | 16.20 | 69      | <b>54.10</b>  | 9800              | 451   | 653.30          | 72.20           | 11.92           | 2.56            |    |       |
| 320 | 320         | 131 | 11.50 | 17.30 | 77.70   | <b>60.90</b>  | 12510             | 555   | 781.90          | 84.70           | 12.69           | 2.67            |    |       |
| 340 | 340         | 137 | 12.20 | 18.30 | 86.70   | <b>67.90</b>  | 15700             | 674   | 923.50          | 98.40           | 13.46           | 2.79            |    |       |
| 360 | 360         | 143 | 13    | 19.50 | 97      | <b>76</b>     | 19610             | 818   | 1089.40         | 114.40          | 14.22           | 2.90            |    |       |
| 380 | 380         | 149 | 13.70 | 20.50 | 107     | <b>83.80</b>  | 24010             | 975   | 1263.70         | 130.90          | 14.98           | 3.02            |    |       |
| 400 | 400         | 155 | 14.40 | 21.60 | 118     | <b>92.40</b>  | 29210             | 1160  | 1460.50         | 149.70          | 15.73           | 3.14            |    |       |
| 450 | 450         | 170 | 16.20 | 24.30 | 147     | <b>115.20</b> | 45850             | 1730  | 2037.80         | 203.50          | 17.66           | 3.43            |    |       |
| 500 | 500         | 185 | 18    | 27    | 179     | <b>140.20</b> | 68740             | 2480  | 2749.60         | 268.10          | 19.60           | 3.72            |    |       |

| I.P.N.                    | Normas de cumplimiento         | Correspondencia con otras normas               |
|---------------------------|--------------------------------|--|
| Dimensiones y tolerancias | IRAM - IAS U 500-511/99        |  |
| Características mecánicas | IRAM - IAS U 500-503/03        | F -24: es similar a DIN 10025 / 94 Grado S 235 |
|                           | grados F-24 y F-26             | F -26: es similar a ASTM A-36 / 00             |
| Largos                    | IPN 80 - 100: 6 y 12 mts.      |  |
|                           | Medidas mayores a 100: 12 mts. |  |

