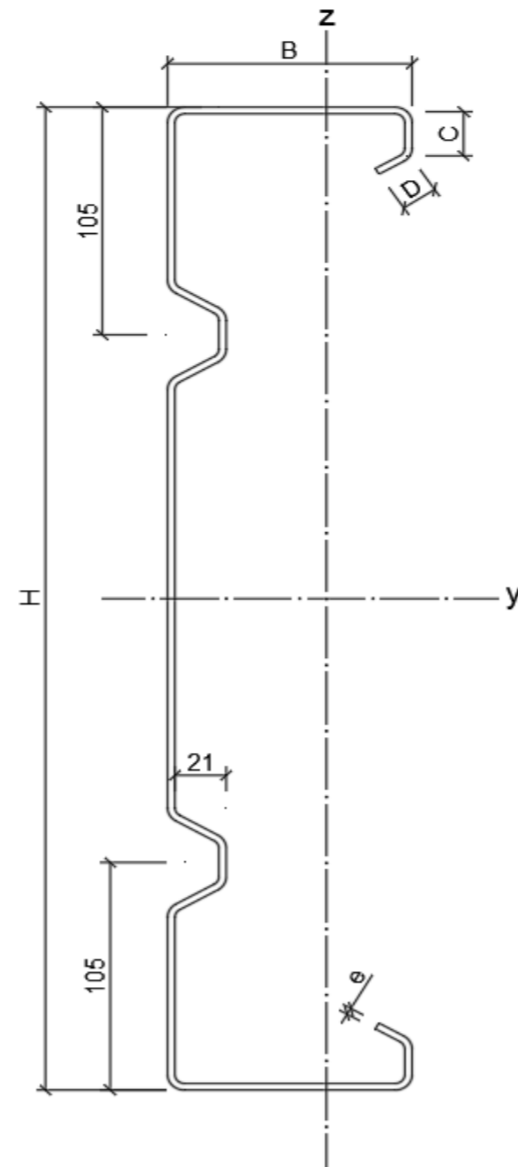
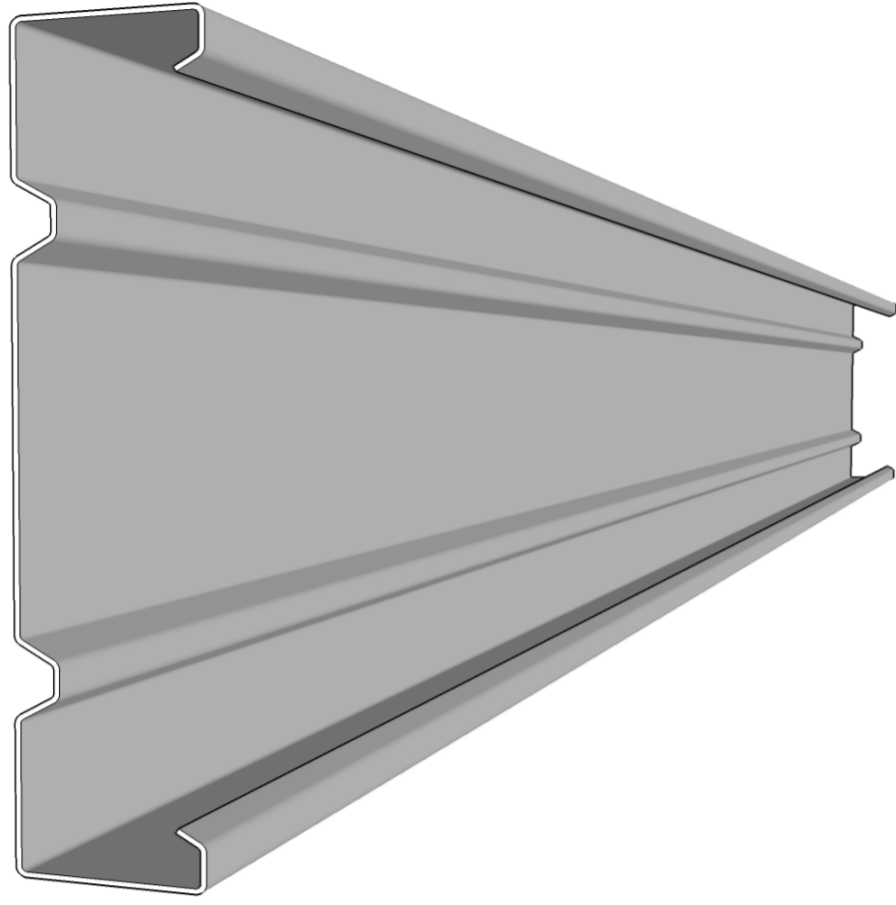


IBEROSIGMA PROFILE



| | |
|--------------------------|---|
| H | Profile height |
| e | Profile thickness |
| b | Wing width |
| c | Tongue width |
| d | Profile track |
| p | Profile weight per linear metre |
| A | Gross section of the profile |
| Y_g | Position of the centre of gravity, G, relative to the midpoint of the strip |
| I_y | Moment of inertia of the gross section about the main axis y-y |
| W_y | Modulus of resistance of the gross section with respect to the y-y axis |
| I_z | Moment of inertia of the gross section with respect to the main axis z-z |
| I_t | Modulus of resistance of the raw section with respect to the z-z axis |
| I_w | Torsional moment of inertia of the raw section |
| A_{eff} | Effective profile section under uniform compression |
| I_{eff,y} | Moment of inertia of the effective section under bending about the y-y axis |
| W_{eff,y} | Modulus of resistance of the effective section under bending about the y-y axis |

| Ref. | BASIC MECHANICAL CHARACTERISTICS | | | | | | | | | | | | | CHARACTERISTICS OF THE EUROCODE | | |
|----------|----------------------------------|-----------|-----------|-----------|-----------|-------------|-------------------------|------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--|--|
| | H (mm) | e (mm) | b (mm) | c (mm) | d (mm) | p (kg/m) | A (cm ²) | Y _g (mm) | I _y (cm ⁴) | W _y (cm ³) | I _z (cm ⁴) | I _t (cm ⁴) | I _w (cm ⁶) | A _{eff} (cm ²) | I _{eff,y} (cm ⁴) | W _{eff,y} (cm ³) |
| Σ325x2 | 325 | 2 | 100 | 25 | 16 ± 2 | 9,530 | 12,14 | 66,9 | 1.819,30 | 112,00 | 152,90 | 0,15 | 37.163 | 11,74 | 1.727,80 | 102,10 |
| Σ325x2,5 | 325 | 2,5 | 100 | 25 | 16 ± 2 | 11,956 | 15,23 | 66,2 | 2.270,00 | 139,90 | 189,00 | 0,30 | 45.773 | 13,60 | 2.241,10 | 135,70 |
| Σ325x3 | 325 | 3 | 100 | 25 | 16 ± 2 | 14,358 | 18,29 | 65,4 | 2.717,20 | 167,20 | 223,10 | 0,53 | 53.951 | 15,63 | 2.583,50 | 153,20 |
| Σ325x4 | 325 | 4 | 100 | 25 | 16 ± 2 | 19,154 | 24,40 | 64,0 | 3.593,90 | 221,20 | 288,30 | 1,27 | 68.988 | 23,11 | 3.533,10 | 214,90 |
| Σ450x2,5 | 450 | 2,5 | 100 | 25 | 16 ± 2 | 14,326 | 18,25 | 59,2 | 5.015,70 | 308,70 | 209,70 | 0,36 | 89.472 | 16,61 | 4.782,90 | 203,90 |
| Σ450x3 | 450 | 3 | 100 | 25 | 16 ± 2 | 17,207 | 21,92 | 58,6 | 6.001,70 | 369,30 | 247,70 | 0,63 | 105.600 | 19,57 | 5.554,10 | 233,90 |
| Σ450x4 | 450 | 4 | 100 | 25 | 16 ± 2 | 22,938 | 29,22 | 57,3 | 7.940,80 | 488,70 | 319,60 | 1,52 | 135.500 | 27,66 | 7.604,60 | 327,70 |

* Limit of elasticity used 280 N/mm²

(mm²)
x10²

(mm⁴)
x10⁴

(mm³)
x10³

(mm⁴)
x10⁴

(mm⁴)
x10⁴

(mm⁶)
x10⁶

(mm²)
x10²

(mm⁴)
x10⁴

(mm³)
x10³

Qualities: Until S350GD

Diameter of tools:

Circulars: ø5,5mm, ø11mm, ø13mm, ø14mm, ø17mm, ø18mm
Colisos: 10x30mm, 14x18mm, 120x13mm

Possibility of manufacturing steel profiles with a zero carbon footprint

Calculation of properties according to the European standard Eurocode-3 Part 1-3 EN 1993-1-3 "Design of steel structures. Supplementary rules for cold formed thin gauge members and sheeting" (2006)