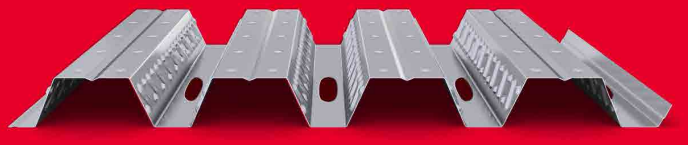
INCO 70.4 P Composite ®

COMPOSITE FLOOR DECK

INCOPERFIL
INGENIERÍA Y CONSTRUCCIÓN DEL PERFIL



- Composite floor
- Cover width: 840 mm
- Height: 70 mm
- Pitch: 210 mm
- Punched solution for shear studs

Description

The INCO 70.4 P Composite floor profile performs a double function, as permanent formwork in the construction stage and as positive reinforcement in the mixed phase. It is specially designed to resolve resistant floors with the minimum floor depth. The perforations allow the passage of Nelson-type stud connectors welded onto the beams prior to the installation of the profile. This profile offers very good resistance, reaching spans of up to 5 meters.

Manufacturing conditions

- Min / Max manufacturing length: 2 / 12 m
- Thickness range: 0,75 | 1,00 | 1,20 mm
- Punching type: 40 x 60 mm
- Minimum Order: 100 m²
- Package Weight: 1.500 - 2.000 kg
- Color: Galvanized
- Manufacturing position: Side B facing up

Transport conditions

Thickness (mm)	Surface* (m²)
0,75	2.000
1,00	1.300
1,20	1.100

*Estimated surface area based on length.

Material

Steel grade	EN 10346
Dimensional tolerances	EN 10143
Fire reaction	EN 14782

Finishing

- Galvanized steel (Z)
- Magnelis steel (ZM)

Complementary articles

- Edge trim
- Tight Joint Upper/ Lower

Tables information

- Construction stage verifications: bending, shear, buckling and deflection according to the Eurocode 3 standard: UNE-EN 1993-1-3
- Final stage verifications: flexure, longitudinal/vertical/punching shear, cracking and deflection according to the Eurocode 4 standard: UNE-EN 1994-1-1 and UNE-EN 1994-1-2
- The live load is not factored and is given in horizontal projection
- The self-weight of the slab is included
- These values are an approximation of resistance and require a calculation report for a detailed analysis
- External/internal support width (mm): 100/100
- Example: Thickness 1,00 mm, 2 spans, depth 140 mm, distance between supports 3,00 m, unpropped, live load = 1.185 kg/m², anti-crack mesh and negative reinforcement 393 mm²/m, positives Ø6 for REI60

Calculation information

- Calculation hypothesis:
  ULS: Q = 1,35 x PP + 1,50 x SU
  SLS: Q = 1,00 x PP + 1,00 x SU
  PP: Self weight | SU: Live load
- Deflection limit:
  Construction stage:
  Max deflection < L/180
  Final stage:
  Span≤3,50 m | Max deflection < L/350
  Span>3,50 m | Max deflection<L/700 + 5mm
  L: Span

Related documents

- General catalog
- Technical datasheet
- Technical manual
- Declaration of Performance (DDP / DOP)

CE
EN 14782:2006

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