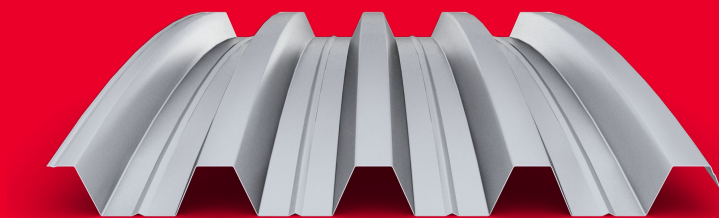


INCO 70.4 Curved®

CURVED ROOFING



- > Curved roofing
- > Cover width: 840 mm
- > Height: 70 mm
- > Pitch: 210 mm

Description

El perfil INCO 70.4 se emplea como perfil curvado de soporte de las cubiertas curvadas autoportantes simples o multicapa de naves industriales, centros comerciales, instalaciones deportivas, entre otros. Este perfil ofrece una muy buena resistencia para las distintas soluciones de cerramientos metálicos, alcanzando luces de hasta 13 metros.

Manufacturing conditions

- > Min / Max Manufacturing Length: 4 / 14 m
- > Thickness Range:
0,60 | 0,70 | 0,80 | 1,00 | 1,20 mm
- > Minimum Order: 250 m²
- > Package Weight: 1.500 - 2.000 kg
- > Color: White. Others on request
- > Color Position: A

Transport conditions

Thickness (mm)	Surface* (m ²)
0,60	2.200
0,70	1.900
0,80	1.700
1,00	1.300
1,20	1.100

* special transport for spans greater than 13 m

Material

- > Steel grade EN 10346
- > Organic coating EN 10169
- > Dimensional tolerances EN 10143
- > Fire reaction EN 14782

Finishing

- > Galvanized steel (Z) and Magnelis (ZM)
- > Standard painted steel (15-25 µm)
- > High-performance steel (35-200 µm)
- > Perforated for acoustic solutions

Complementary articles

- > Cellular polycarbonate sheets
- > Tight Joint Upper/ Lower
- > Trimming

Tables information

- > The values in the tables have been obtained by experimental tests and computational analyses
- > The maximum horizontal deformation of the roof support structure will be limited to 3 mm (pressure) and 30 mm (suction)
- > These values should be compared with factored load combinations on the horizontal projection
- > The self-weight of the profile is included
- > These values are an approximation of resistance and require a calculation report for a detailed analysis
- > Example: Thickness 1,20 mm, distance between supports 12,00 m, uniform maximum load 261 kg/m², not uniform maximum load 183 kg/m²

Calculation information

- > Hipótesis de cálculo:
ELU descendente:
 $Q = 1,35 \times (PP + CP) + 1,50 \times SU$
 $Q = 1,35 \times (PP + CP) + 1,50 \times SV + 0,75 \times SN$
 $Q = 1,35 \times (PP + CP) + 1,50 \times SN + 0,90 \times SV$
ELS descendente:
 $Q = 1,00 \times (PP + CP) + 1,00 \times SU$
 $Q = 1,00 \times (PP + CP) + 1,00 \times SV + 0,50 \times SN$
 $Q = 1,00 \times (PP + CP) + 1,00 \times SN + 0,60 \times SV$
ELU descendente no uniforme:
 $Q = 1,35 \times (PP + CP) + 1,50 \times SN$
PP: Peso propio | CP: Carga permanente
SU: Sobrecarga de uso | SN: sobrecarga de nieve

Related documents

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

Comience a diseñar su cubierta curvada



Find on our website all technical documentation what you need to start design your project.

www.incoperfil.com/solution



Use forms for request a specific report for your project.

www.incoperfil.com/cas

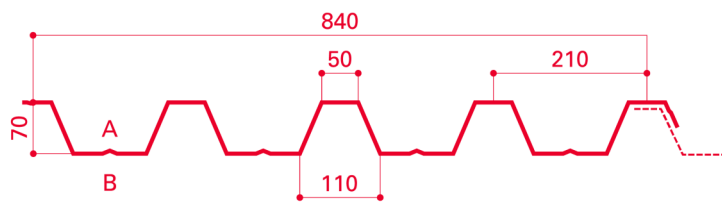


Request support from our technical department for design and select the system more appropriate.

dpto_tecnico@incoperfil.com

INCO 70.4 Curved [®]

CURVED ROOFING



Material: Steel
Yield strength (N/mm²): 280
Deflection (mm): L/200

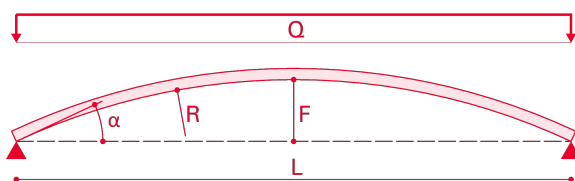
Dimensions in mm

Profile features

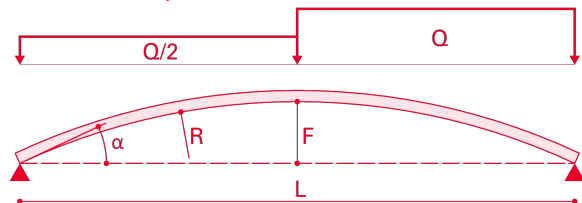
Thickness (mm)	Weight (daN/m ²)	Gross area (mm ² /m)	Gross inertia (mm ⁴ /mm)	Eff. inertia + (mm ⁴ /mm)	Eff. inertia - (mm ⁴ /mm)	W + (mm ³ /m)	W - (mm ³ /m)
0,60	7,00	893	633.077	553.003	462.532	12.195	9.857
0,70	8,17	1.042	738.725	673.258	592.251	16.254	13.134
0,75	8,76	1.116	791.564	745.232	698.464	17.837	16.127
1,00	11,69	1.488	1.055.919	1.029.987	1.055.919	24.498	25.899
1,20	14,01	1.786	1.267.596	1.267.597	1.267.597	29.834	31.038

Maximum load (daN/m²)

Uniformly distributed load



Non-uniformly distributed load



Thickness (mm)	Load type	Distance between supports, L (m)													
		6,50	7,00	7,50	8,00	8,50	9,00	9,50	10,00	10,50	11,00	11,50	12,00	12,50	13,00
0,60	Uniformly	287	261	232	201										
	Non-uniformly	201	183	162	141										
0,70	Uniformly	386	350	315	283	251									
	Non-uniformly	270	245	220	198	176									
0,75	Uniformly	446	403	363	326	291	256								
	Non-uniformly	313	283	250	229	204	139								
1,00	Uniformly				496	454	409	374	335	303	272	241	216		
	Non-uniformly				348	316	287	260	235	212	191	172	152		
1,20	Uniformly						501	458	410	371	333	295	261	229	197
	Non-uniformly						352	318	288	259	234	208	183	160	139
Radius, R (mm)		7.690	8.282	8.873	9.465	10.056	10.648	11.239	11.831	12.423	13.014	13.606	14.197	14.789	15.380
Height, F (mm)		721	776	831	887	942	998	1.053	1.108	1.164	1.219	1.275	1.330	1.386	1.441
Angle, alpha (°)		25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0