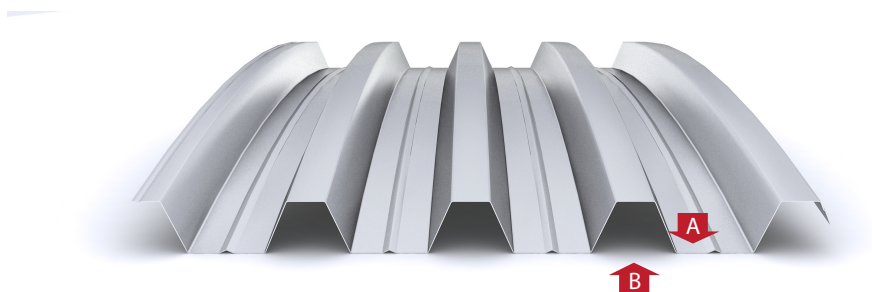


Product



Perforation



Overlap

Working Length: 840 mm
Height Profile: 70 mm

Description

INCO 70.4 metallic roof for use as free-standing roof for spans of between 8 and 13.3 metres. A light roof which eliminates the need for a support structure. Quicker assembly, reduced costs, structural savings and improved aesthetics.

Free-standing roofs are available galvanized and in different primed colours. Improved acoustics can be obtained with perforated steel. Uses include roofing for padel courts and sports centres. Some of its uses include covering paddel tennis courts or sport center

Applications

- Industrial: hangars, plants, water tanks.
- Agricultural: stables, sheds.
- Comercial: open spaces, sport, walled.
- Public: schools, gymnasium, pavilions.

Complementary Articles

- INCOPOL 70.4 (Skylight of Polycarbonate)
- Tight Joint INCO 70.4 Upper/ Lower
- Trimming

Related Documents

- General Catalogue
- Technical Sheet
- Technical Dossier
- Declaration of Performance (DDP / DOP)

Material

Steel	EN 10346
Organic Coating	EN 10169
Dimensional Tolerance	EN 10346
Reaction to Fire	EN 14782

Finishing

- Galvanized
- Standard Organic Coating / High Organic Coating
- Specialty Materials: Corten Steel and Magnelis
- Perforated for Acoustic Solutions

Manufacturing Conditions

Manufacturing Length	Min. / Max. 2.000 / 14.000 mm
Thickness Range	0,60 0,70 0,75 0,80 1,00 1,20 mm
Minimal Order	250 m ²
Package Weight	1.500-2.000 kg
Colour	White RAL 9003. Other on demand
Colour Position	A

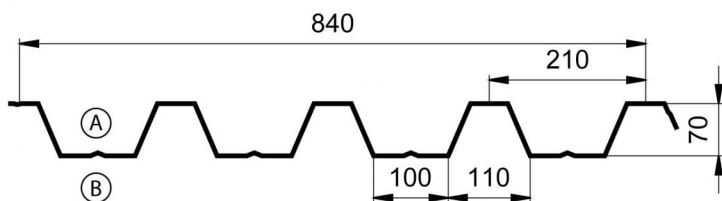
Transport Conditions

Thickness(mm)	Surface* (m ²)	Thickness(mm)	Surface* (m ²)
0,60	2.200	0,80	1.700
0,70	1.900	1,00	1.300
0,75	1.800	1,20	1.100

* estimated area depending on cutting length

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Profile Dimensions



Useful Width: 840 mm

Dimensions in mm

Material Characteristics

Material	Steel
Elastic limit (N/mm^2)	280
Elasticity modulus (N/mm^2)	2.100.000
Density (Kg/m^3)	7.850

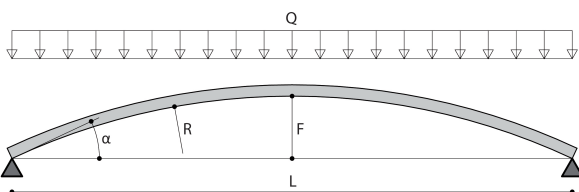
Effective Values

Thickness (mm)	Weight (daN/m^2)	Gross Area (mm^2/m)	M. Inertia (mm^4/m)			M. Resistant (mm^3/m)	
			Gross	Effective +	Effective -	Effective +	Effective -
0,80	9,34	1.190	844.414	790.899	778.881	19.159	18.404
1,00	11,68	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

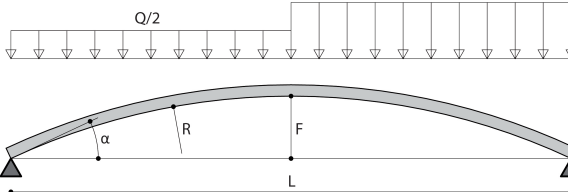
Usage Table

Maximum load (daN/m^2)

CARGA SIMÉTRICA



CARGA ASIMÉTRICA



Thickness (mm)	Span between supports (m)													
	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13			
0,80	361	253	321	226	287	201	256	178	223	157	199	137	170	120
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,00	496	348	454	316	409	287	374	260	335	235	303	212	272	191
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,20	607	425	554	387	501	352	458	318	410	288	371	259	333	234
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Radius (mm)	9.465	10.056	10.648	11.239	11.831	12.423	13.014	13.606	14.197	14.789	15.380			
Deflection (m)	887	942	998	1.053	1.108	1.164	1.219	1.275	1.330	1.386	1.441			
Angle (°)	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0			

E	L	
	Q1	Q2
	DT	ST

Q1: Maximum load ELU (daN/m^2)
Q2: Asymmetric ELU maximum load (daN/m^2)
DT: Tie Bar Diameter (mm)
ST: Spacing Between Tie Bars (m)

The ELU resistance values at symmetrically and asymmetrically distributed load that appear in the table have been obtained by exploiting the results of experimental tests. For the design of the structure, the maximum horizontal deformation of the support will be limited to 3 mm (pressure) and 30 mm (suction).

Calculation Legend

v21.11.29

Combination of Actions:

PP: Own Weight ; CP: Permanent Load

ELU: $Q = 1,35 * (PP + CP) + 1,50 * \text{Live Load}$

$Q = 1,35 * (PP + CP) + 1,50 * \text{Wind} + 0,75 * \text{Snow}$

$Q = 1,35 * (PP + CP) + 1,50 * \text{Snow} + 0,90 * \text{Wind}$

ELS: $Q = 1,00 * (PP + CP) + 1,00 * \text{Use}$

$Q = 1,00 * (PP + CP) + 1,00 * \text{Wind} + 0,50 * \text{Snow}$

$Q = 1,00 * (PP + CP) + 1,00 * \text{Snow} + 0,60 * \text{Wind}$

ELU_{Asymmetric}: $Q = 1,35 * (PP + CP) + 1,50 * \text{Snow}$

Reglamentación:

UNE-EN 1993-1-3: Eurocode 3 Part 1-3

Declaration of Performance: www.incoperfil.com/dop

Calculation report request: www.incoperfil.com/cyd



EN 14782:2006