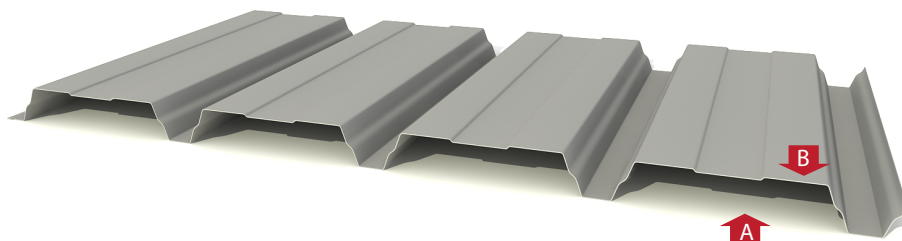


Product



Curved



Perforation



Overlap

Working Length: 980 mm
Height Profile: 44 mm

Description

INCO 44.4 corrugated sheet profile is used for the construction of the roofs and façades (simple, sandwich and deck) of industrial warehouses, sports centres, unique buildings, etc. This profile owes its high resistance to the height and the design of its corrugation.

This profile is available galvanized and in different primed colours. This profile can be curved. Perforated steel can be used for applications requiring better acoustics.

Applications

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

Complementary Articles

- INCOLUX 44.4 (Skylight of Polyester)
- Tight Joint INCO 44.4 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. 2.200 / 24.000 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

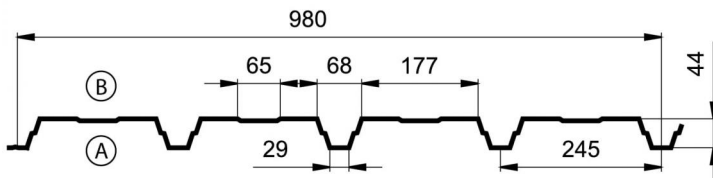
Transport Conditions

Thickness(mm)	Surface* (m ²)	Thickness(mm)	Surface* (m ²)
0,60	3.600	0,80	2.700
0,70	3.100	1,00	2.100
0,75	2.900	1,20	1.800

* estimated area depending on cutting length

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Dimensions



Eff. Width: 980 mm

Dim. in mm

Material characteristics

Material	Steel
Yield Strenght (N/mm ²)	280
Elasticity Modulus (N/mm ²)	210.000
Density (Kg/m ³)	7.850

Façade Parameters

End Left-Right	supported - supported
Width of Supports (mm)	40
Extreme Suports Width (mm)	40

Section values

Thickness (mm)	Weight (daN/m ²)	Effective Area (mm ² /m)	M. Inertia (mm ⁴ /m)			Section Modulus (mm ³ /m)	
			Gross	Effective +	Effective -	Effective +	Effective -
0,70	7,01	893	215.970	139.844	208.515	5.764	6.337
0,75	7,51	957	231.404	153.492	226.911	6.231	6.922
0,80	8,01	1.020	246.214	167.450	245.402	6.700	7.512
1,00	10,01	1.276	308.597	226.033	308.597	8.594	9.359
1,20	12,02	1.531	370.386	288.040	370.386	10.508	11.320

Load Tables

Maximal distance between supports. Down load / (m)

Thickness (mm)	Overload Use / Wind Suction (daN/m²)											1 Span	
	50			100			150			200			
	Permanent Load (daN/m²)												
	15	20	25	15	20	25	15	20	25	15	20	25	
0,70	2,70 / 4,85	2,65 / 5,00	2,55 / 5,20	2,15 / 3,35	2,15 / 3,40	2,10 / 3,45	1,90 / 2,70	1,90 / 2,70	1,85 / 2,75	1,75 / 2,30	1,70 / 2,35	1,70 / 2,35	
0,75	2,75 / 5,05	2,70 / 5,25	2,65 / 5,45	2,20 / 3,50	2,20 / 3,55	2,15 / 3,60	1,95 / 2,80	1,95 / 2,85	1,90 / 2,90	1,75 / 2,45	1,75 / 2,45	1,75 / 2,45	
0,80	2,80 / 5,30	2,75 / 5,50	2,70 / 5,70	2,25 / 3,65	2,25 / 3,70	2,20 / 3,75	2,00 / 2,95	2,00 / 2,95	1,95 / 3,00	1,80 / 2,55	1,80 / 2,55	1,80 / 2,55	
1,00	3,05 / 6,00	2,95 / 6,25	2,90 / 6,50	2,45 / 4,10	2,45 / 4,15	2,40 / 4,25	2,15 / 3,30	2,15 / 3,35	2,15 / 3,35	1,95 / 2,85	1,95 / 2,85	1,95 / 2,90	
1,20	3,25 / 6,70	3,15 / 6,95	3,10 / 7,25	2,65 / 4,55	2,60 / 4,60	2,55 / 4,70	2,30 / 3,65	2,30 / 3,70	2,30 / 3,75	2,10 / 3,15	2,10 / 3,15	2,10 / 3,20	

Thickness (mm)	Overload Use / Wind Suction (daN/m²)										2 Span 		
	50			100			150			200			
	Permanent Load (daN/m²)												
	15	20	25	15	20	25	15	20	25	15	20	25	
0,70	3,45 / 4,60	3,35 / 4,75	3,25 / 4,95	2,35 / 3,15	2,30 / 3,20	2,25 / 3,30	1,85 / 2,55	1,85 / 2,60	1,80 / 2,60	1,55 / 2,20	1,55 / 2,20	1,55 / 2,25	
0,75	3,65 / 4,80	3,55 / 5,00	3,40 / 5,20	2,50 / 3,30	2,45 / 3,35	2,40 / 3,40	2,00 / 2,65	1,95 / 2,70	1,95 / 2,75	1,65 / 2,30	1,65 / 2,30	1,65 / 2,35	
0,80	3,80 / 5,00	3,70 / 5,20	3,60 / 5,40	2,65 / 3,45	2,60 / 3,50	2,55 / 3,55	2,10 / 2,75	2,10 / 2,80	2,05 / 2,85	1,80 / 2,40	1,75 / 2,40	1,75 / 2,40	
1,00	4,10 / 5,75	4,00 / 5,95	3,95 / 6,20	3,10 / 3,90	3,05 / 4,00	3,00 / 4,05	2,50 / 3,15	2,45 / 3,20	2,40 / 3,25	2,10 / 2,70	2,10 / 2,75	2,10 / 2,75	
1,20	4,35 / 6,45	4,25 / 6,70	4,20 / 7,00	3,40 / 4,35	3,35 / 4,45	3,30 / 4,50	2,80 / 3,50	2,75 / 3,55	2,75 / 3,60	2,40 / 3,00	2,40 / 3,05	2,40 / 3,05	

Thickness (mm)	Overload Use / Wind Suction (daN/m²)										3 Span 		
	50			100			150			200			
	Permanent Load (daN/m²)												
	15	20	25	15	20	25	15	20	25	15	20	25	
0,70	3,35 / 5,15	3,25 / 5,35	3,20 / 5,55	2,65 / 3,55	2,60 / 3,60	2,55 / 3,65	2,10 / 2,85	2,05 / 2,90	2,05 / 2,95	1,75 / 2,45	1,75 / 2,50	1,70 / 2,50	
0,75	3,40 / 5,35	3,35 / 5,55	3,25 / 5,80	2,75 / 3,70	2,70 / 3,75	2,70 / 3,80	2,25 / 3,00	2,20 / 3,00	2,15 / 3,05	1,90 / 2,55	1,85 / 2,60	1,85 / 2,60	
0,80	3,50 / 5,60	3,40 / 5,80	3,35 / 6,05	2,80 / 3,85	2,80 / 3,90	2,75 / 3,95	2,35 / 3,10	2,35 / 3,15	2,30 / 3,15	2,00 / 2,65	2,00 / 2,70	1,95 / 2,70	
1,00	3,75 / 6,45	3,70 / 6,70	3,60 / 6,95	3,05 / 4,40	3,00 / 4,45	3,00 / 4,55	2,70 / 3,55	2,65 / 3,55	2,65 / 3,60	2,40 / 3,05	2,35 / 3,05	2,35 / 3,10	
1,20	4,00 / 7,20	3,90 / 7,50	3,85 / 7,85	3,25 / 4,90	3,20 / 4,95	3,20 / 5,05	2,85 / 3,90	2,85 / 3,95	2,80 / 4,00	2,60 / 3,35	2,60 / 3,40	2,60 / 3,45	

Calculation of Bending, Shear, dent, Deflection (L/ 200)

Calculus Notes

v20.04.01

Actions Combination:

ELU_{Down}: Q = 1,35 * Own Load + 1,50 * Live Load
 ELS_{Down}: Q = 1,00 * Own Load + 1,00 * Live Load
 ELU_{Up}: Q = 0,80 * (Own Load + Permanent Load) - 1,50 * Vi

Normative:

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

