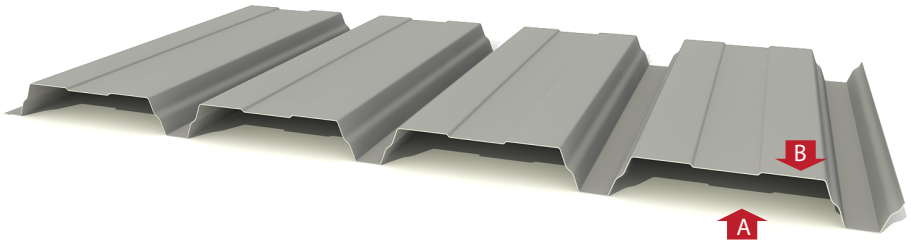
INCO 44.4®

FAÇADE

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.

Aplications

- 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 m²
Package Weight	1.500-2.000 kg
Colour	White RAL 9003. Other on demand
Colour Position	B

Transport Conditions

Thickness(mm)	Surface* (m²)	Thickness(mm)	Surface* (m²)
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

Rev. 2020.04

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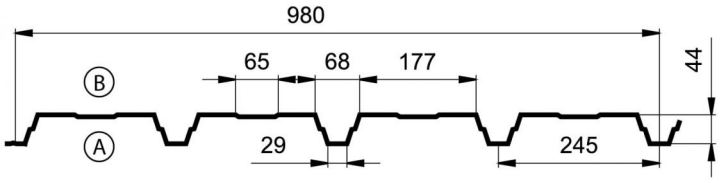
INCO 44.4 ®

Facade

Dimensions



Eff. Width: 980 mm

Dim. in mm

Material characteristics

Material	Steel
Yield Strenght (N/mm²)	220
Elasticity Modulus (N/mm²)	210.000
Density (Kg/m³)	7.850

Façade Parameters

End Left-Right	supported - supported
Width of Supports (mm)	10
Extreme Suports Width (mm)	10

Section values

Thickness (mm)	Weight (daN/m²)	Effective Area (mm²/m)	M. Inertia (mm⁴/m)			Section Modulus (mm³/m)	
			Gross	Effective +	Effective -	Effective +	Effective -
0,60	6,01	765	185.107	113.587	172.264	4.841	5.185
0,70	7,01	893	215.970	139.844	208.515	5.764	6.337
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

Maximum Span Lenght (m)

Thickness (mm)	Wind Load (daN/m²)										1 Span
	50	65	80	95	110	125	140	155	170	185	200
0,60	2,85 / 3,40	2,60 / 2,95	2,45 / 2,65	2,30 / 2,45	2,20 / 2,25	2,05 / 2,15	1,95 / 2,00	1,85 / 1,90	1,75 / 1,80	1,70 / 1,75	1,60 / 1,70
0,70	3,05 / 3,75	2,80 / 3,30	2,60 / 2,95	2,45 / 2,70	2,35 / 2,50	2,25 / 2,35	2,10 / 2,20	2,00 / 2,10	1,90 / 2,00	1,85 / 1,95	1,75 / 1,85
0,80	3,20 / 4,05	2,90 / 3,55	2,75 / 3,20	2,55 / 2,95	2,45 / 2,75	2,35 / 2,55	2,25 / 2,40	2,15 / 2,30	2,05 / 2,20	2,00 / 2,10	1,90 / 2,00
1,00	3,50 / 4,55	3,20 / 4,00	2,95 / 3,60	2,80 / 3,30	2,65 / 3,05	2,55 / 2,85	2,45 / 2,70	2,40 / 2,55	2,30 / 2,45	2,25 / 2,35	2,15 / 2,25
1,20	3,75 / 5,00	3,40 / 4,40	3,20 / 3,95	3,00 / 3,60	2,85 / 3,35	2,75 / 3,15	2,65 / 3,00	2,55 / 2,85	2,45 / 2,70	2,40 / 2,60	2,35 / 2,50

Thickness (mm)	Wind Load (daN/m²)										2 Span
	50	65	80	95	110	125	140	155	170	185	200
0,60	3,00 / 3,25	2,55 / 2,85	2,25 / 2,55	2,00 / 2,35	1,80 / 2,20	1,65 / 2,05	1,55 / 1,95	1,45 / 1,85	1,35 / 1,75	1,25 / 1,70	1,20 / 1,60
0,70	3,50 / 3,55	2,95 / 3,10	2,60 / 2,80	2,35 / 2,60	2,15 / 2,40	1,95 / 2,25	1,85 / 2,10	1,70 / 2,00	1,60 / 1,90	1,50 / 1,85	1,45 / 1,75
0,80	3,90 / 3,85	3,35 / 3,35	2,95 / 3,05	2,70 / 2,80	2,45 / 2,60	2,25 / 2,40	2,10 / 2,30	2,00 / 2,15	1,85 / 2,05	1,75 / 2,00	1,70 / 1,90
1,00	4,55 / 4,35	3,95 / 3,80	3,50 / 3,45	3,20 / 3,15	2,95 / 2,95	2,70 / 2,75	2,55 / 2,60	2,40 / 2,45	2,25 / 2,35	2,15 / 2,25	2,05 / 2,15
1,20	5,00 / 4,80	4,40 / 4,20	3,95 / 3,80	3,60 / 3,50	3,35 / 3,25	3,15 / 3,05	2,95 / 2,85	2,75 / 2,70	2,65 / 2,60	2,50 / 2,50	2,40 / 2,40

Thickness (mm)	Wind Load (daN/m²)										3 Span
	50	65	80	95	110	125	140	155	170	185	200
0,60	3,40 / 3,65	2,90 / 3,20	2,50 / 2,90	2,25 / 2,65	2,05 / 2,45	1,90 / 2,30	1,75 / 2,15	1,60 / 2,05	1,50 / 1,95	1,45 / 1,90	1,35 / 1,80
0,70	3,75 / 4,00	3,35 / 3,50	2,95 / 3,15	2,65 / 2,90	2,40 / 2,70	2,20 / 2,50	2,05 / 2,35	1,95 / 2,25	1,80 / 2,15	1,70 / 2,05	1,65 / 1,95
0,80	3,95 / 4,30	3,60 / 3,75	3,35 / 3,40	3,00 / 3,10	2,75 / 2,90	2,55 / 2,70	2,35 / 2,55	2,20 / 2,45	2,10 / 2,30	2,00 / 2,20	1,90 / 2,15
1,00	4,30 / 4,85	3,95 / 4,25	3,70 / 3,85	3,45 / 3,55	3,30 / 3,25	3,05 / 3,05	2,85 / 2,90	2,70 / 2,75	2,55 / 2,65	2,40 / 2,50	2,30 / 2,40
1,20	4,60 / 5,40	4,25 / 4,70	3,95 / 4,25	3,75 / 3,90	3,55 / 3,60	3,40 / 3,40	3,25 / 3,20	3,10 / 3,05	2,95 / 2,90	2,80 / 2,80	2,70 / 2,70

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

Calculus Notes

v20.04.01

Actions Combination:
$ELU_{Pressure}$: Q = 1,50 * Wind
$ELS_{Pressure}$: Q = 1,00 * Wind
$ELU_{Suction}$: Q = 1,50 * Wind

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

CE
EN 14782:2006

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