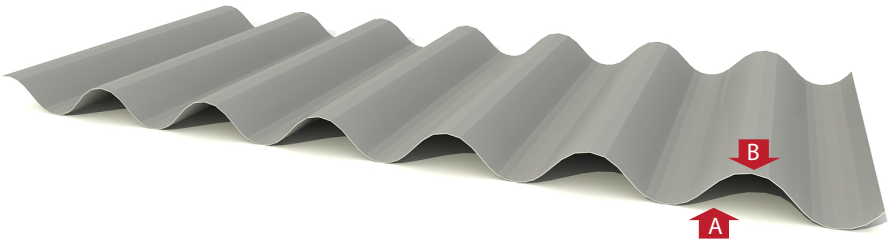
INCO 44.6 Corrugated ®

ROOF

Product



Curved

Perforation

Installation

Working Length: 930 mm
Height Profile: 44 mm

Description

INCO 44.6 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 combines an attractive design with the high resistance afforded by the corrugation's height.

This profile is available galvanized and in different primed colours. It can also 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

- Tight Joint INCO 44.6 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	B

Transport Conditions

Thickness(mm)	Surface* (m^2)	Thickness(mm)	Surface* (m^2)
0,60	4.135	0,80	3.100
0,70	3.545	1,00	3.480
0,75	3.280	1,20	2.060

* estimated area depending on cutting length

Rev. 2020.04

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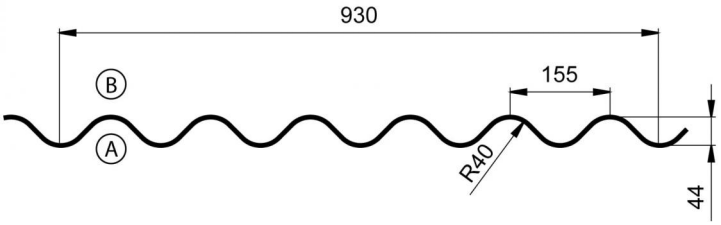
INCO 44.6 Ondulado ®

Facade

Dimensions



Eff. Width: 1250 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	6,33	600	172.792	172.792	172.792	7.737	7.737
0,70	7,38	700	201.603	201.603	201.603	9.011	9.011
0,75	7,91	750	216.010	216.010	216.010	9.647	9.647
0,80	8,44	800	230.419	230.419	230.419	10.281	10.281
1,00	10,55	1.000	288.070	288.070	288.070	12.802	12.802

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	3,00 / 4,15	2,75 / 3,60	2,55 / 3,25	2,40 / 3,00	2,30 / 2,80	2,20 / 2,60	2,15 / 2,45	2,05 / 2,35	2,00 / 2,25	1,95 / 2,15	1,90 / 2,05
0,70	3,15 / 4,45	2,90 / 3,90	2,70 / 3,50	2,55 / 3,25	2,45 / 3,00	2,35 / 2,80	2,25 / 2,65	2,15 / 2,50	2,10 / 2,40	2,05 / 2,30	2,00 / 2,20
0,75	3,25 / 4,60	2,95 / 4,05	2,75 / 3,65	2,60 / 3,35	2,50 / 3,10	2,40 / 2,90	2,30 / 2,75	2,20 / 2,60	2,15 / 2,50	2,10 / 2,40	2,05 / 2,30
0,80	3,30 / 4,75	3,05 / 4,20	2,85 / 3,75	2,65 / 3,45	2,55 / 3,20	2,45 / 3,00	2,35 / 2,85	2,25 / 2,70	2,20 / 2,55	2,15 / 2,45	2,10 / 2,35
1,00	3,55 / 5,30	3,25 / 4,65	3,05 / 4,20	2,90 / 3,85	2,75 / 3,60	2,60 / 3,35	2,55 / 3,15	2,45 / 3,00	2,35 / 2,90	2,30 / 2,75	2,25 / 2,65

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

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

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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