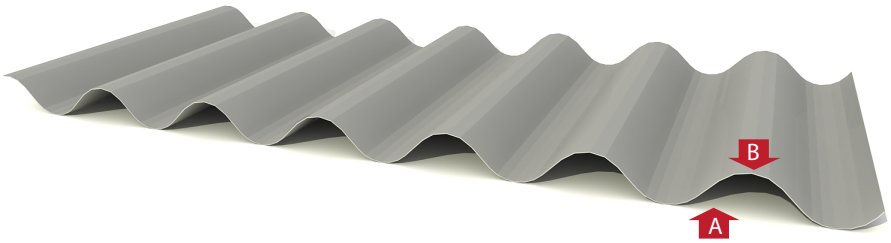
INCO 44.6 Corrugated®

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	A

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

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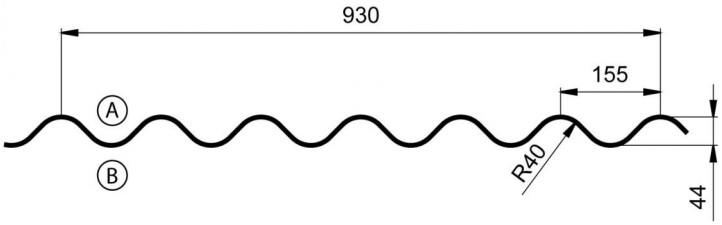
INCO 44.6 Ondulado ®

Roof

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

Roof Parameters

End Left-Right	supported - supported
Position	horizontal
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

Live Load (daN/m²)

Thickness (mm)	Maximum Span Lenght (m)										1 Span
	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25
0,60	254 / 276	168 / 210	116 / 165	83 / 132	61 / 108	46 / 90	34 / 76	26 / 64	20 / 56	16 / 48	12 / 42
0,70	297 / 322	196 / 245	136 / 192	97 / 154	71 / 126	53 / 105	41 / 88	31 / 75	24 / 65	19 / 56	14 / 49
0,75	318 / 345	210 / 262	146 / 206	104 / 165	76 / 135	57 / 112	44 / 95	33 / 81	26 / 69	20 / 60	16 / 52
0,80	339 / 367	224 / 279	155 / 219	111 / 176	82 / 144	61 / 120	46 / 101	36 / 86	27 / 74	21 / 64	16 / 56
1,00	424 / 457	281 / 348	195 / 273	139 / 219	102 / 179	77 / 149	58 / 126	45 / 107	35 / 92	27 / 80	21 / 69

Thickness (mm)	Maximum Span Lenght (m)										2 Span
	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25
0,60	147 / 273	120 / 208	100 / 164	84 / 132	72 / 108	62 / 90	54 / 76	48 / 64	42 / 55	37 / 48	33 / 42
0,70	187 / 318	152 / 243	126 / 191	106 / 153	90 / 125	77 / 105	67 / 88	59 / 75	52 / 65	46 / 56	41 / 49
0,75	208 / 341	169 / 260	140 / 204	117 / 164	100 / 134	86 / 112	74 / 94	65 / 80	57 / 69	50 / 60	45 / 52
0,80	229 / 363	185 / 277	153 / 218	128 / 175	109 / 143	94 / 119	81 / 100	71 / 86	62 / 74	55 / 64	49 / 56
1,00	317 / 453	255 / 345	209 / 271	175 / 218	148 / 179	127 / 149	109 / 125	95 / 107	83 / 92	73 / 79	64 / 69

Thickness (mm)	Maximum Span Lenght (m)										3 Span
	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25
0,60	175 / 341	144 / 260	120 / 205	102 / 166	87 / 136	76 / 114	66 / 96	56 / 82	44 / 70	35 / 61	28 / 54
0,70	223 / 398	183 / 304	152 / 239	128 / 193	110 / 159	95 / 132	83 / 111	65 / 95	51 / 82	41 / 71	33 / 63
0,75	248 / 426	203 / 326	168 / 256	142 / 206	122 / 170	105 / 142	88 / 120	70 / 102	55 / 88	44 / 76	36 / 67
0,80	274 / 454	223 / 347	185 / 273	156 / 220	133 / 181	114 / 151	94 / 128	74 / 109	58 / 94	47 / 82	38 / 71
1,00	381 / 566	308 / 433	254 / 341	213 / 275	181 / 225	153 / 188	118 / 159	93 / 136	73 / 117	59 / 102	47 / 89

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 - 1,50 * Wind
Note: the r

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

CE
EN 14782:2006

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