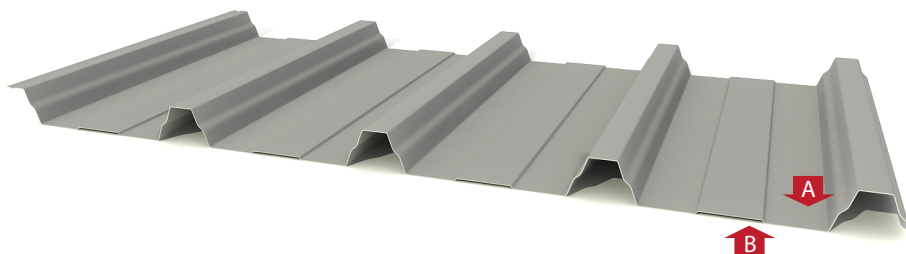


Product



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

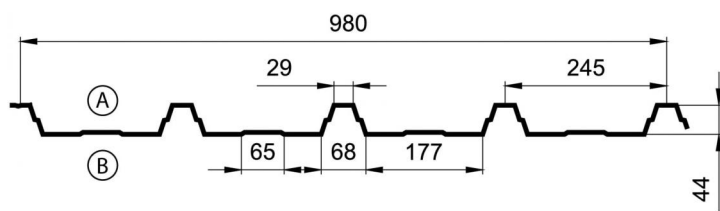
Transport Conditions

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

Rev. 2020.04

Dimensions



Eff. Width: 980 mm

Dim. in mm

Material characteristics

Material	Steel
Yield Strength (N/mm ²)	220
Elasticity Modulus (N/mm ²)	210.000
Density (Kg/m ³)	7.850

Roof Parameters

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

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 -
0,60	6,01	765	185.107	172.264	113.587	5.185	4.841
0,70	7,01	893	215.970	208.515	139.844	6.337	5.764
0,80	8,01	1.020	246.214	245.402	167.450	7.512	6.700
1,00	10,01	1.276	308.597	308.597	226.033	9.359	8.594
1,20	12,02	1.531	370.386	370.386	288.040	11.320	10.508

Load Tables

Live Load (daN/m²)

Thickness (mm)	Maximum Span Length (m)										1 Span
	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	Δ
0,60	183 / 171	139 / 129	109 / 101	87 / 81	63 / 66	48 / 55	36 / 45	28 / 39	21 / 33	17 / 28	13 / 24
0,70	224 / 204	170 / 154	133 / 120	103 / 96	76 / 78	57 / 65	43 / 54	33 / 46	26 / 39	20 / 34	16 / 29
0,80	267 / 237	202 / 179	158 / 140	119 / 112	88 / 91	66 / 75	50 / 63	39 / 53	30 / 45	23 / 39	18 / 34
1,00	332 / 304	252 / 231	197 / 180	150 / 144	110 / 118	83 / 98	63 / 82	49 / 69	38 / 59	30 / 51	23 / 44
1,20	402 / 373	305 / 283	239 / 221	180 / 177	133 / 144	99 / 119	76 / 100	59 / 85	45 / 73	36 / 63	28 / 54

Thickness (mm)	Maximum Span Length (m)										2 Span
	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	Δ
0,60	123 / 182	98 / 139	80 / 108	66 / 87	55 / 71	47 / 59	41 / 49	35 / 41	30 / 35	27 / 31	23 / 27
0,70	156 / 223	124 / 170	100 / 132	83 / 106	70 / 87	59 / 72	50 / 60	44 / 51	38 / 44	33 / 38	29 / 32
0,80	190 / 265	151 / 201	122 / 157	101 / 126	84 / 103	71 / 85	61 / 71	52 / 61	45 / 52	39 / 45	34 / 39
1,00	262 / 330	206 / 250	167 / 196	137 / 158	114 / 128	96 / 106	82 / 90	69 / 76	59 / 65	50 / 56	44 / 48
1,20	337 / 399	265 / 303	213 / 238	175 / 191	144 / 156	119 / 129	100 / 109	85 / 92	73 / 79	62 / 68	54 / 59

Thickness (mm)	Maximum Span Length (m)										3 Span
	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	Δ
0,60	148 / 229	119 / 174	97 / 137	81 / 109	69 / 90	59 / 75	51 / 63	44 / 53	38 / 46	33 / 39	29 / 35
0,70	188 / 280	151 / 213	123 / 167	102 / 134	86 / 110	73 / 92	63 / 77	54 / 66	48 / 56	42 / 48	36 / 42
0,80	231 / 331	184 / 253	150 / 198	124 / 159	104 / 131	89 / 109	76 / 91	66 / 78	57 / 67	50 / 58	41 / 50
1,00	320 / 413	253 / 315	205 / 247	170 / 199	142 / 163	120 / 136	103 / 114	88 / 97	76 / 84	64 / 72	52 / 63
1,20	412 / 500	325 / 381	263 / 299	217 / 241	181 / 197	151 / 164	127 / 138	109 / 118	93 / 101	77 / 87	63 / 77

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



EN 14782:2006