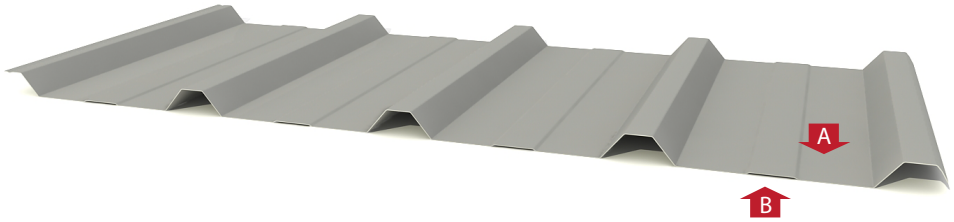
INCO 30.4®

ROOF

Product



Perforated

Overlap

Working Width: 1.100 mm
Height profile: 30 mm

Description

INCO 30.4 profile for use as corrugated steel roofing or façade (simple or sandwich) of industrial plants, shopping centers, sport facilities,etc. This is the most economic option for metallic facings.

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

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

Aplications

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

Complementary Articles

- INCOLUX 30.4 (Skylight of Polyester)
- INCOPOL 30.4 (Skylight of Polycarbonate)
- Tight Joint INCO 30.4 Upper/ Lower
- Trimming

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

Related Documents

- General Catalogue
- Technical Sheet
- Technical Dossier
- Declaration of Performance (DDP / DOP)

Transport Conditions

Thickness(mm)	Surface* (m²)	Thickness(mm)	Surface* (m²)
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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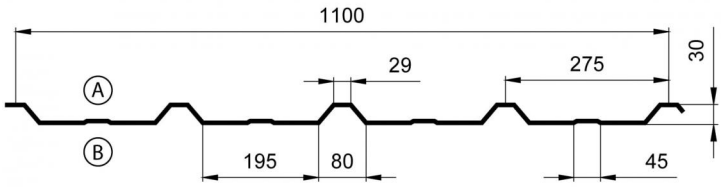
INCO 30.4 ®

Roof

Dimensions



Eff. Width: 1100 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	5,40	682	76.037	69.623	43.712	2.951	2.770
0,70	6,20	795	88.674	84.748	53.726	3.613	3.284
0,80	7,10	909	101.301	100.182	64.306	4.294	3.802
1,00	8,90	1.136	126.532	126.532	86.731	5.409	4.848
1,20	10,70	1.364	151.735	151.735	110.479	6.459	5.898

Load Tables

Live Load (daN/m²)

Thickness (mm)	Maximum Span Lenght (m)										1 Span
	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50
0,60	494 / 464	316 / 297	219 / 206	161 / 151	110 / 116	77 / 91	56 / 74	42 / 61	32 / 51	25 / 43	20 / 37
0,70	605 / 550	387 / 352	269 / 244	195 / 179	131 / 137	92 / 108	67 / 88	50 / 72	38 / 61	30 / 52	24 / 44
0,80	719 / 637	460 / 407	319 / 283	227 / 208	152 / 159	107 / 125	78 / 101	58 / 84	45 / 70	35 / 60	28 / 52
1,00	906 / 812	580 / 520	402 / 361	285 / 265	191 / 203	134 / 160	97 / 130	73 / 107	56 / 90	44 / 76	35 / 66
1,20	1.082 / 988	692 / 632	481 / 439	342 / 322	229 / 247	161 / 195	117 / 158	88 / 130	67 / 109	53 / 93	42 / 80

Thickness (mm)	Maximum Span Lenght (m)										2 Span
	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50
0,60	270 / 488	193 / 314	146 / 218	114 / 160	92 / 123	75 / 97	63 / 78	54 / 65	46 / 54	40 / 46	35 / 40
0,70	344 / 597	244 / 384	183 / 267	143 / 196	114 / 150	94 / 119	78 / 96	66 / 79	57 / 67	49 / 57	43 / 49
0,80	422 / 709	298 / 456	222 / 317	172 / 233	138 / 179	112 / 141	94 / 114	79 / 94	68 / 79	59 / 68	51 / 58
1,00	586 / 893	410 / 574	303 / 400	234 / 294	186 / 225	151 / 178	125 / 144	106 / 119	90 / 100	76 / 85	66 / 73
1,20	760 / 1.067	527 / 686	387 / 478	297 / 351	235 / 269	191 / 213	157 / 172	130 / 142	109 / 120	93 / 102	80 / 88

Thickness (mm)	Maximum Span Lenght (m)										3 Span
	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50
0,60	321 / 607	231 / 391	175 / 272	137 / 200	111 / 153	91 / 121	77 / 98	65 / 81	56 / 68	48 / 58	38 / 50
0,70	410 / 742	293 / 478	220 / 333	172 / 245	138 / 188	114 / 148	95 / 120	81 / 99	69 / 83	57 / 71	46 / 61
0,80	504 / 881	357 / 568	268 / 396	208 / 291	167 / 223	137 / 176	114 / 143	97 / 118	83 / 99	67 / 85	53 / 73
1,00	703 / 1.110	494 / 715	367 / 499	284 / 367	226 / 281	184 / 222	153 / 180	129 / 149	107 / 125	84 / 107	67 / 92
1,20	916 / 1.326	638 / 854	471 / 596	362 / 438	287 / 336	233 / 266	193 / 215	163 / 178	128 / 150	100 / 127	80 / 110

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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