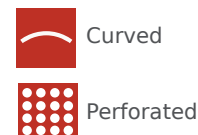
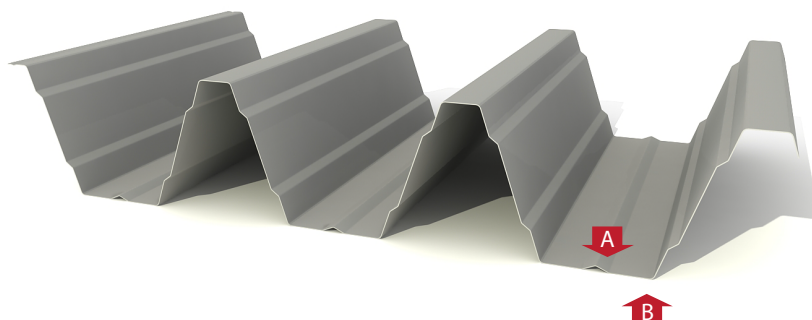


Product



Working Length: 840 mm
Height Profile: 155 mm

Description

The INCO 155.3 profile is used for both roofs and facades (single or sandwich) and deck roofs for industrial buildings, shopping centers, sports facilities, etc. Its main application is that of the interior support of the enclosure, reaching spans of up to 10 m. It is a highly resistant profile thanks to the design of its geometry with a fret height of 155 mm.

It is available both in galvanized and in the different pre-lacquered colors. Also for acoustic improvement applications it can be made with perforated steel.

Applications

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

Complementary Articles

- Tight Joint INCO 155.3 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 0,80 1,00 1,20 1,50 mm
Minimal Order	250 m ²
Package Weight	1.500-2.000 kg
Colour	White RAL 9003. Other on demand
Colour Position	A

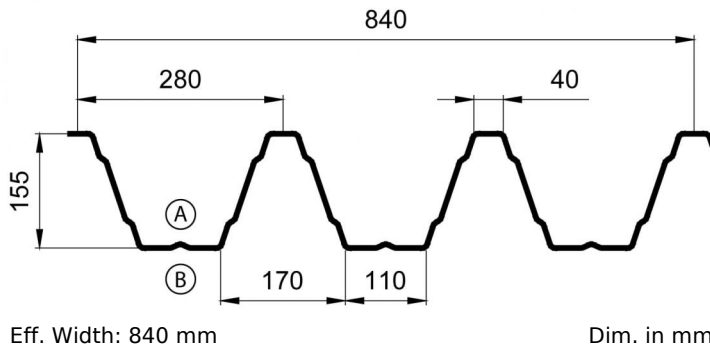
Transport Conditions

Thickness(mm)	Surface* (m ²)	Thickness(mm)	Surface* (m ²)
0,60	2.400	1,00	1.400
0,70	2.100	1,20	1.200
0,80	1.900	1,50	980

* estimated area depending on cutting length

Rev. 2020.04

Dimensions



Material characteristics

Material	Steel
Yield Strentht (N/mm ²)	280
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)	100
Extreme Suports Width (mm)	60

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	8,41	1.071	2.871.947	2.315.539	2.190.398	23.255	28.121
0,70	9,81	1.250	3.350.623	2.916.680	2.724.710	29.957	36.365
0,80	11,21	1.429	3.829.309	3.450.391	3.251.666	35.906	44.186
1,00	14,01	1.786	4.786.712	4.768.768	4.480.790	51.566	62.199
1,20	16,82	2.143	5.744.164	5.902.309	5.556.108	64.709	77.292

Load Tables

Live Load (daN/m²)

Thickness (mm)	Maximum Span Lenght (m)										1 Span Δ
	5,00	5,25	5,50	5,75	6,00	6,25	6,50	6,75	7,00	7,25	7,50
0,60	78 / 152	74 / 137	70 / 124	66 / 113	63 / 103	60 / 94	58 / 86	55 / 80	53 / 74	47 / 68	42 / 63
0,70	111 / 198	105 / 179	100 / 162	95 / 147	91 / 135	87 / 123	83 / 113	73 / 105	65 / 97	57 / 89	51 / 83
0,80	151 / 241	144 / 217	137 / 197	131 / 180	125 / 164	110 / 151	97 / 139	85 / 127	75 / 118	67 / 109	59 / 101
1,00	261 / 341	247 / 308	219 / 279	190 / 255	165 / 233	145 / 213	127 / 197	112 / 181	99 / 167	88 / 155	79 / 144
1,20	353 / 424	309 / 384	267 / 348	232 / 317	202 / 290	177 / 266	156 / 245	138 / 226	122 / 209	108 / 194	96 / 180

Thickness (mm)	Maximum Span Lenght (m)										2 Span $\Delta \Delta$
	5,00	5,25	5,50	5,75	6,00	6,25	6,50	6,75	7,00	7,25	7,50
0,60	88 / 112	82 / 102	76 / 92	70 / 84	65 / 78	61 / 71	57 / 66	53 / 60	50 / 56	46 / 52	44 / 48
0,70	120 / 150	111 / 136	103 / 124	95 / 113	89 / 103	83 / 95	77 / 87	72 / 81	68 / 75	63 / 69	60 / 64
0,80	153 / 184	141 / 167	131 / 152	121 / 139	113 / 127	105 / 116	98 / 107	92 / 99	86 / 91	81 / 85	76 / 79
1,00	233 / 272	215 / 246	199 / 224	185 / 204	172 / 187	160 / 171	149 / 157	140 / 145	131 / 135	123 / 125	115 / 116
1,20	316 / 347	292 / 314	269 / 285	250 / 260	232 / 238	216 / 218	201 / 200	188 / 185	176 / 171	165 / 158	154 / 147

Thickness (mm)	Maximum Span Lenght (m)										3 Span $\Delta \Delta \Delta$
	5,00	5,25	5,50	5,75	6,00	6,25	6,50	6,75	7,00	7,25	7,50
0,60	99 / 136	94 / 124	89 / 114	85 / 104	80 / 96	74 / 88	70 / 82	65 / 76	61 / 70	58 / 65	54 / 61
0,70	141 / 184	133 / 167	124 / 153	115 / 140	107 / 129	101 / 119	94 / 109	89 / 101	83 / 94	78 / 87	73 / 81
0,80	185 / 228	171 / 207	158 / 189	147 / 173	137 / 159	128 / 146	120 / 135	113 / 125	106 / 115	99 / 107	94 / 99
1,00	282 / 339	261 / 307	241 / 280	225 / 256	209 / 235	195 / 215	183 / 199	171 / 184	161 / 170	151 / 158	142 / 147
1,20	384 / 434	354 / 394	328 / 358	304 / 327	282 / 299	264 / 275	246 / 253	230 / 234	216 / 217	203 / 201	191 / 187

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

