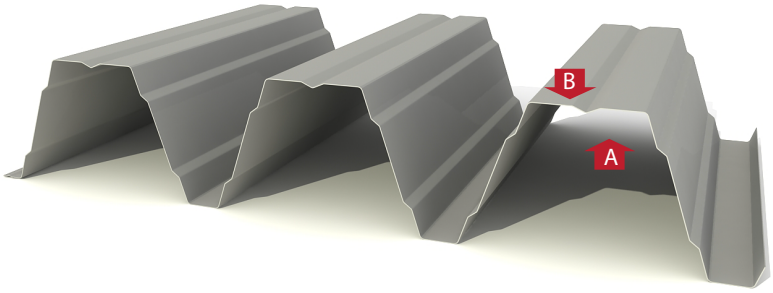
INCO 155.3 ®

FAÇADE

Product



Curved

Perforated

Overlap

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.

Aplications

- Industrial: hangars, plants, water tanks.
- Agricultural: stables, sheds.
- Comercial: 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 m²
Package Weight	1.500-2.000 kg
Colour	White RAL 9003. Other on demand
Colour Position	B

Transport Conditions

Thickness(mm)	Surface* (m²)	Thickness(mm)	Surface* (m²)
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

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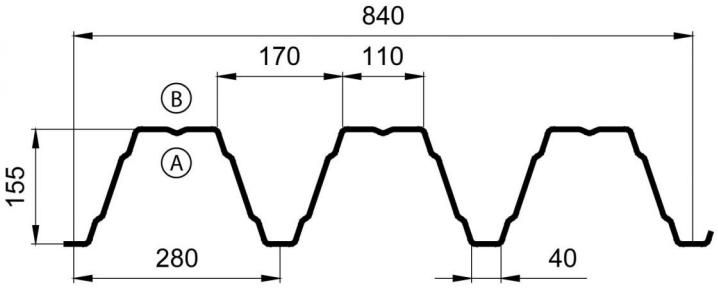
INCO 155.3 ®

Facade

Dimensions



Eff. Width: 840 mm

Dim. in mm

Material characteristics

Material	Steel
Yield Strenght (N/mm²)	280
Elasticity Modulus (N/mm²)	210.000
Density (Kg/m³)	7.850

Façade Parameters

End Left-Right	supported - supported
Width of Supports (mm)	100
Extreme Suports Width (mm)	60

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

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	6,31 / 6,31	6,31 / 6,31	5,95 / 6,31	5,00 / 5,90	4,30 / 5,45	3,80 / 5,10	3,40 / 4,85	3,05 / 4,60	2,80 / 4,40	2,55 / 4,20	2,35 / 4,05
0,70	7,43 / 7,43	7,20 / 7,43	6,70 / 7,25	6,35 / 6,65	6,05 / 6,20	5,35 / 5,80	4,80 / 5,50	4,35 / 5,20	3,95 / 5,00	3,60 / 4,75	3,35 / 4,60
0,80	8,25 / 8,25	7,60 / 8,25	7,05 / 7,95	6,65 / 7,30	6,35 / 6,80	6,10 / 6,35	5,85 / 6,00	5,65 / 5,70	5,30 / 5,45	4,85 / 5,25	4,50 / 5,05
1,00	9,00 / 9,00	8,30 / 9,00	7,75 / 9,00	7,30 / 8,75	6,95 / 8,15	6,65 / 7,65	6,40 / 7,20	6,20 / 6,85	6,00 / 6,55	5,85 / 6,25	5,70 / 6,05
1,20	9,65 / 13,0	8,85 / 11,9	8,25 / 10,7	7,80 / 9,80	7,45 / 9,10	7,10 / 8,55	6,85 / 8,10	6,60 / 7,70	6,40 / 7,35	6,25 / 7,05	6,10 / 6,75

Thickness (mm)	Wind Load (daN/m²)										2 Span
	50	65	80	95	110	125	140	155	170	185	200
0,60	6,31 / 6,31	6,20 / 6,31	5,45 / 6,31	4,90 / 6,15	4,45 / 5,70	4,05 / 5,30	3,75 / 4,95	3,50 / 4,65	3,30 / 4,45	3,10 / 4,20	2,95 / 4,00
0,70	7,43 / 7,43	7,35 / 7,43	6,50 / 7,43	5,85 / 7,15	5,35 / 6,65	4,90 / 6,20	4,55 / 5,85	4,25 / 5,50	4,00 / 5,25	3,80 / 5,00	3,60 / 4,80
0,80	8,25 / 8,25	8,25 / 8,25	7,40 / 8,25	6,65 / 8,00	6,10 / 7,40	5,65 / 6,95	5,25 / 6,55	4,95 / 6,20	4,65 / 5,90	4,40 / 5,65	4,20 / 5,40
1,00	9,00 / 9,00	9,00 / 9,00	9,00 / 9,00	8,35 / 9,00	7,70 / 8,90	7,10 / 8,30	6,65 / 7,85	6,25 / 7,45	5,95 / 7,10	5,65 / 6,80	5,35 / 6,55
1,20	13,0 / 13,0	11,9 / 13,0	10,7 / 11,7	9,70 / 10,7	8,90 / 9,95	8,30 / 9,30	7,75 / 8,80	7,35 / 8,35	6,95 / 8,00	6,60 / 7,65	6,30 / 7,35

Thickness (mm)	Wind Load (daN/m²)										3 Span
	50	65	80	95	110	125	140	155	170	185	200
0,60	6,31 / 6,31	6,31 / 6,31	6,10 / 6,31	5,50 / 6,31	5,00 / 6,30	4,60 / 5,85	4,25 / 5,50	3,80 / 5,15	3,50 / 4,90	3,20 / 4,65	2,95 / 4,45
0,70	7,43 / 7,43	7,43 / 7,43	7,30 / 7,43	6,55 / 7,43	6,00 / 7,40	5,50 / 6,90	5,15 / 6,50	4,80 / 6,15	4,50 / 5,80	4,30 / 5,55	4,05 / 5,30
0,80	8,25 / 8,25	8,25 / 8,25	8,25 / 8,25	7,45 / 8,25	6,85 / 8,25	6,30 / 7,75	5,90 / 7,30	5,55 / 6,90	5,20 / 6,55	4,95 / 6,30	4,70 / 6,00
1,00	9,00 / 9,00	9,00 / 9,00	9,00 / 9,00	9,00 / 9,00	8,60 / 9,00	8,00 / 9,00	7,45 / 8,80	7,05 / 8,35	6,65 / 7,95	6,30 / 7,60	6,00 / 7,30
1,20	12,0 / 13,0	11,0 / 13,0	10,2 / 13,0	9,65 / 12,0	9,20 / 11,1	8,80 / 10,4	8,50 / 9,85	8,20 / 9,35	7,80 / 8,90	7,40 / 8,55	7,10 / 8,20

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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