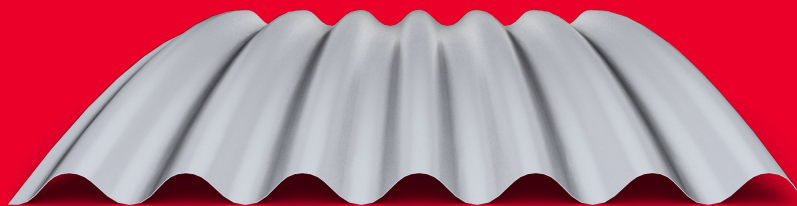


INCO 44.6 Wavy Curved®

CURVED ROOFING



- > Curved roofing
- > Cover width: 930 mm
- > Height: 44 mm
- > Pitch: 155 mm

Description

The INCO 44.6 Wavy profile is used as a curved support profile for simple or multi-layer self-supporting curved roofs of industrial warehouses, shopping centers, sports facilities, among others. This profile offers good resistance for different metal enclosure solutions, reaching spans up to 7 meters.

Manufacturing conditions

- > Min / Max Manufacturing Length: 2 / 14 m
- > Thickness Range:
0,60 | 0,70 | 0,80 | 1,00 mm
- > Minimum Order: 250 m²
- > Package Weight: 1.500 - 2.000 kg
- > Color: White. Others on request
- > Color Position: A

Transport conditions

Thickness (mm)	Surface* (m ²)
0,60	3.200
0,70	2.800
0,80	2.400
1,00	1.900

* special transport for spans greater than 13 m

Material

- | | |
|--------------------------|----------|
| > Steel grade | EN 10346 |
| > Organic coating | EN 10169 |
| > Dimensional tolerances | EN 10143 |
| > Fire reaction | EN 14782 |

Finishing

- > Galvanized steel (Z) and Magnelis (ZM)
- > Standard painted steel (15-25 µm)
- > High-performance steel (35-200 µm)
- > Perforated for acoustic solutions

Complementary articles

- > Tight Joint Upper/ Lower
- > Trimming

Tables information

- > The values in the tables have been obtained by experimental tests and computational analyses
- > The maximum horizontal deformation of the roof support structure will be limited to 3 mm (pressure) and 30 mm (suction)
- > These values should be compared with factored load combinations on the horizontal projection
- > The self-weight of the profile is included
- > These values are an approximation of resistance and require a calculation report
- > for a detailed analysis

Example: Thickness 0,80 mm, distance between supports 6,00 m, maximum load = 174 kg/m²

Calculation information

- > Calculation hypothesis:
ULS:
 $Q = 1,35 \times (PP + CP) + 1,50 \times SU$
 $Q = 1,35 \times (PP + CP) + 1,50 \times SV + 0,75 \times SN$
 $Q = 1,35 \times (PP + CP) + 1,50 \times SN + 0,90 \times SV$
SLS:
 $Q = 1,00 \times (PP + CP) + 1,00 \times SU$
 $Q = 1,00 \times (PP + CP) + 1,00 \times SV + 0,50 \times SN$
 $Q = 1,00 \times (PP + CP) + 1,00 \times SN + 0,60 \times SV$
PP: Self weight | CP: Permanent load SU: Live load | SN: Wind load

Related documents

- > General catalog
- > Technical datasheet
- > Technical manual
- > Declaration of Performance (DDP / DOP)

Start designing your curved roofing



Find on our website all technical documentation what you need to start design your project.

www.incoperfil.com/solucion



Use forms for request a specific report for your project.

www.incoperfil.com/cas

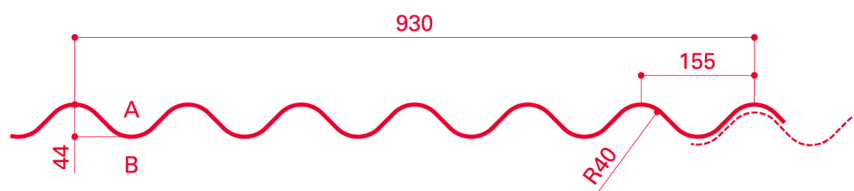


Request support from our technical department for design and select the system more appropriate.

dpto_tecnico@incoperfil.com

INCO 44.6 Wavy Curved [®]

CURVED ROOFING



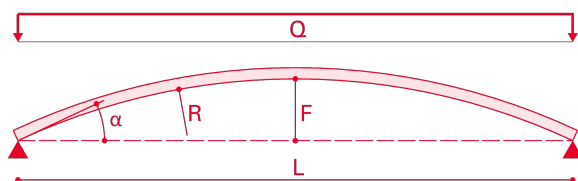
Material: Steel
Yield strength (N/mm²): 280
Deflection (mm): L/200

Dimensions in mm

Profile features

Thickness (mm)	Weight (daN/m ²)	Gross area (mm ² /m)	Gross inertia (mm ⁴ /mm)	Eff. inertia + (mm ⁴ /mm)	Eff. inertia - (mm ⁴ /mm)	W + (mm ³ /m)	W - (mm ³ /m)
0,60	6,33	806	172.792	172.792	172.792	7.737	7.737
0,70	7,38	941	201.603	201.603	201.603	9.011	9.011
0,75	7,91	1.008	216.010	216.010	216.010	9.647	9.647
0,80	8,44	1.075	230.419	230.419	230.419	10.281	10.281
1,00	10,55	1.344	288.070	288.070	288.070	12.802	12.802

Maximum load (daN/m²)



Thickness (mm)	Distance between supports, L (m)													
	4,40	4,60	4,80	5,00	5,20	5,40	5,60	5,80	6,00	6,20	6,40	6,60	6,80	7,00
0,60	133	131	129	128	127	127	124	119	113					
0,70	161	158	156	155	154	153	153	151	147	139	131	123	117	110
0,75	175	172	170	169	168	167	166	165	161	155	146	138	131	124
0,80	190	187	184	183	182	181	180	178	174	168	161	153	145	139
1,00	239	235	232	230	229	228	227	224	219	212	203	196	195	180
Radius, R (mm)	5.206	5.442	5.679	5.916	6.152	6.389	6.625	6.862	7.099	7.335	7.572	7.808	8.045	8.282
Height, F (mm)	488	510	532	554	576	599	621	643	665	687	709	732	754	776
Angle, α (°)	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0	25,0