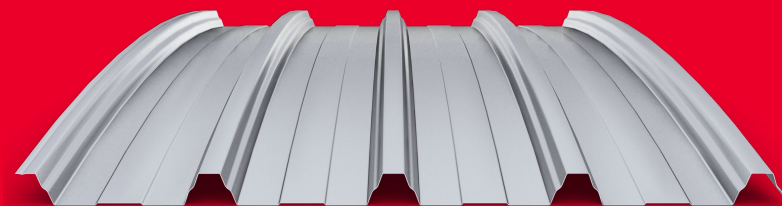


INCO 44.4 Curved[®]

CURVED ROOFING



- > Curved roofing
- > Cover width: 980 mm
- > Height: 44 mm
- > Pitch: 245 mm

Description

The INCO 44.4 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 | 1,20 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
1,20	1.600

* 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

- > Translucent polycarbonate INCOPOL 44.4
- > 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/solution



Use forms for request a specific report for your project.

www.incoperfil.com/cas

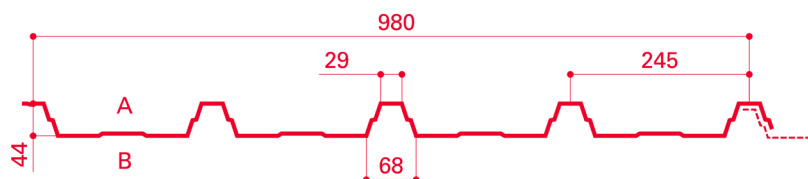


Request support from our technical department for design and select the system more appropriate.

dpto_tecnico@incoperfil.com

INCO 44.4 Curved[®]

CURVED ROOFING



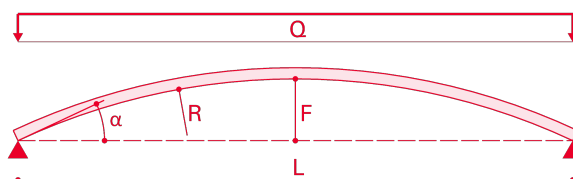
Material: Steel
Yield strength (N/mm²): 280
Deflection (mm): L/200

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	6,01	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
0,75	7,51	957	231.404	226.911	153.492	6.922	6.231
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

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	134	131	130	129	128	128	125	119	113					
0,70	161	159	157	155	155	154	153	151	147	139	131	124	118	110
0,75	176	173	171	169	169	168	167	165	161	156	147	138	132	128
0,80	190	186	184	182	182	181	180	178	174	168	161	152	145	139
1,00	239	235	232	230	229	228	227	224	219	212	203	195	194	180
1,20	287	282	278	276	275	274	272	269	263	254	243	234	233	230
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