

SCOPE

Self-supporting roofing product for discontinuous laying made from metallic coated steel sheet with or without additional organic coatings used as roofing profile.

MATERIAL (Steel)

CHARACTERISTIC	STAND. REF.
Dimensional tolerance	EN 10143
Steel	EN 10346
Organic coating	EN 10169

	Thickness (mm)					
	0,60	0,70	0,75	0,80	1,00	1,20
Weight (kg/m ²)	5,55	6,48	6,94	7,41	9,26	11,11
I _g (cm ⁴ /ml)	7,503	8,842	9,512	10,182	12,862	15,541
W ₁ (cm ³ /ml)	10,957	12,820	13,741	14,656	18,250	21,744
W ₂ (cm ³ /ml)	2,913	3,427	3,683	3,939	9,956	5,965

GEOMETRICAL CHARACTERISTICS

CHARACTERISTIC	VALUE	UNIT	TOLERANCE
Depth of profile (h)	32	mm	± 1,0
Depth of stiffeners	4	mm	± 1,0
Pitch	265	mm	± 2,0
Widths of crown and valley (b ₁ , b ₂)	(20, 195)	mm	+2,0/-1,0
Cover width (w)	1.060	mm	± 5,0
Radius of bends (r)	6	mm	+ 2,0 / 0,0
Deviation from straightness (δ)	≤ tolerance	mm	2,0 / ml (max.: 10,0)
Deviation from squareness (s)	≤ tolerance	mm	≤ 0,5% of (w)
Length (l)	According to order ⁽¹⁾	mm	l ≤ 3.000 mm +10,0/-5,0 l > 3.000 mm + 20,0/-5,0
Deviation of side lap (D)	≤ tolerance	mm	± 2,0 on 500 mm
Curve radius and angles	---	°	---
Reaction to fire	Class A1 ⁽²⁾ / Class C-s3,d0 ⁽³⁾		

⁽¹⁾ Maximum length: 14.000 mm; Minimum length: 1.800 mm

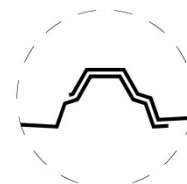
⁽²⁾ Class A1: According to commission decision 96/603/CE

⁽³⁾ Class C-s3,d0: According to commission decision 2010/737/UE for Plastisol PVC coating

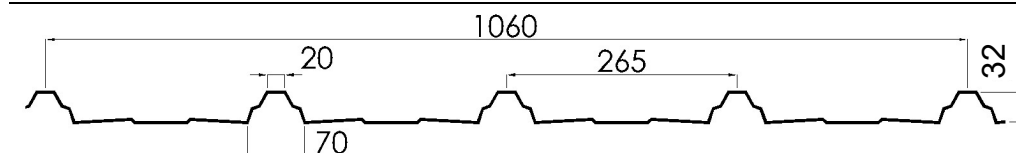


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OVERLAP DETAIL



SECTION DETAIL



3D DETAIL



PERMISSIBLE SPAN (m) FOR POSITIVE LOADS – Limitation of deflection: L/200

Positive load (daN/m²)												
	Thickness (mm)											
	0,60	0,70	0,75	0,80	1,00	1,20	0,60	0,70	0,75	0,80	1,00	1,20
50	1,90	2,20	2,00	2,15	2,45	2,65	2,00	2,70	2,70	2,70	3,05	3,20
75	1,85	1,90	1,95	2,00	2,15	2,30	2,00	2,35	2,45	2,50	2,70	2,90
100	1,65	1,75	1,75	1,80	1,95	2,10	1,95	2,15	2,20	2,25	2,45	2,60
125	1,55	1,60	1,65	1,70	1,80	1,95	1,85	2,00	2,05	2,10	2,25	2,45
150	1,45	1,50	1,55	1,60	1,70	1,85	1,65	1,90	1,90	1,95	2,10	2,30
175	1,35	1,45	1,45	1,50	1,60	1,75	1,55	1,80	1,80	1,85	2,00	2,15
200	1,25	1,35	1,40	1,45	1,55	1,65	1,35	1,70	1,75	1,80	1,90	2,05
225	1,20	1,30	1,35	1,40	1,50	1,60	1,20	1,50	1,60	1,70	1,85	2,00
250	1,10	1,25	1,30	1,35	1,45	1,55	1,05	1,35	1,45	1,55	1,80	1,90

CUADR PERMISSIBLE SPAN (m) FOR NEGATIVE LOADS (fastening to crown)

Minimum characteristic tensión resistance of fastening(kN)	Negative load (daN/m²)												
		Thickness (mm)											
		0,60	0,70	0,75	0,80	1,00	1,20	0,60	0,70	0,75	0,80	1,00	1,20
1,70	50	2,00	2,70	2,70	2,70	3,20	3,20	2,00	2,70	2,70	2,70	3,20	3,20
	75	2,00	2,55	2,65	2,70	3,10	3,20	2,00	2,70	2,70	2,70	3,20	3,20
	100	2,00	2,15	2,25	2,35	2,65	3,00	2,00	2,50	2,60	2,65	2,75	2,80
	125	1,80	1,90	2,00	2,05	2,35	2,65	1,90	2,10	2,10	2,10	2,15	2,20
	150	1,60	1,75	1,80	1,85	2,10	2,25	1,70	1,70	1,70	1,75	1,75	1,80
	175	1,50	1,60	1,65	1,75	1,85	1,90	1,45	1,45	1,45	1,45	1,50	1,50
	200	1,40	1,50	1,55	1,60	1,60	1,65	1,25	1,25	1,25	1,25	1,30	1,30
3,00	50	2,00	2,70	2,70	2,70	3,20	3,20	2,00	2,70	2,70	2,70	3,20	3,20
	75	2,00	2,55	2,65	2,70	3,10	3,20	2,00	2,70	2,70	2,70	3,20	3,20
	100	2,00	2,15	2,25	2,35	2,65	3,00	2,00	2,50	2,60	2,70	3,05	3,20
	125	1,80	1,90	2,00	2,05	2,35	2,65	1,90	2,20	2,30	2,40	2,70	3,05
	150	1,60	1,75	1,80	1,85	2,10	2,40	1,70	2,00	2,10	2,15	2,45	2,75
	175	1,50	1,60	1,65	1,75	1,95	2,20	1,60	1,85	1,90	2,00	2,25	2,50
	200	1,40	1,50	1,55	1,60	1,80	2,05	1,45	1,75	1,80	1,85	2,10	2,30
6,00	50	2,00	2,70	2,70	2,70	3,20	3,20	2,00	2,70	2,70	2,70	3,20	3,20
	75	2,00	2,55	2,65	2,70	3,10	3,20	2,00	2,70	2,70	2,70	3,20	3,20
	100	2,00	2,15	2,25	2,35	2,65	3,00	2,00	2,50	2,60	2,70	3,05	3,20
	125	1,80	1,90	2,00	2,05	2,35	2,65	1,90	2,20	2,30	2,40	2,70	3,05
	150	1,60	1,75	1,80	1,85	2,10	2,40	1,70	2,00	2,10	2,15	2,45	2,75
	175	1,50	1,60	1,65	1,75	1,95	2,20	1,60	1,85	1,90	2,00	2,25	2,50
	200	1,40	1,50	1,55	1,60	1,80	2,05	1,45	1,75	1,80	1,85	2,10	2,35

The partial safety factor of the fastening is 1,15.

PERMISSIBLE SPAN (m) FOR NEGATIVE LOADS (fastening to valley)

Steel support thickness (mm)	Negative load (daN/m ²)												
		Thickness (mm)											
		0,60	0,70	0,75	0,80	1,00	1,20	0,60	0,70	0,75	0,80	1,00	1,20
1,5 ≤ e ≤ 3,0	50	2,00	2,70	2,70	2,70	3,20	3,20	2,00	2,70	2,70	2,70	3,20	3,20
	75	2,00	2,55	2,65	2,70	3,10	3,20	2,00	2,70	2,70	2,70	3,20	3,20
	100	2,00	2,15	2,25	2,35	2,65	3,00	2,00	2,50	2,60	2,70	3,05	3,20
	125	1,80	1,90	2,00	2,05	2,35	2,65	2,00	2,20	2,30	2,40	2,70	3,05
	150	1,60	1,75	1,80	1,85	2,10	2,40	1,85	2,00	2,10	2,15	2,45	2,75
	175	1,50	1,60	1,65	1,75	1,95	2,20	1,70	1,85	1,95	2,00	2,25	2,55
	200	1,40	1,50	1,55	1,60	1,80	2,05	1,60	1,75	1,80	1,85	2,10	2,35
e > 3,00	50	2,00	2,70	2,70	2,70	3,20	3,20	2,00	2,70	2,70	2,70	3,20	3,20
	75	2,00	2,55	2,65	2,70	3,10	3,20	2,00	2,70	2,70	2,70	3,20	3,20
	100	2,00	2,15	2,25	2,35	2,65	3,00	2,00	2,50	2,60	2,70	3,05	3,20
	125	1,80	1,90	2,00	2,05	2,35	2,65	2,00	2,20	2,30	2,40	2,70	3,05
	150	1,60	1,75	1,80	1,85	2,10	2,40	1,85	2,00	2,10	2,15	2,45	2,75
	175	1,50	1,60	1,65	1,75	1,95	2,20	1,70	1,85	1,95	2,00	2,25	2,55
	200	1,40	1,50	1,55	1,60	1,80	2,05	1,60	1,75	1,80	1,85	2,10	2,35

The permissible span values in the table above have a design resistance of the fastening (daN) related to thickness of the sheet and support according to the table below.

Steel support thickness (mm)	Thickness (mm)					
	0,60	0,70	0,75	0,80	1,00	1,20
1,5 ≤ e ≤ 3,0	300	300	300	300	300	300
e > 3,00	300	360	400	440	600	600

For any further clarification, you can contact Technical Department (tecnico@europafil.com or by phone).
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