

SCOPE

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

MATERIAL (Steel)

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

	Thickness (mm)					
	0,70	0,75	0,80	0,88	1,00	1,20
Weight (kg/m ²)	7,23	7,75	8,26	9,09	10,33	12,39
I _g (cm ⁴ /m)	34,475	37,087	39,699	43,878	50,146	60,593
W ₁ (cm ³ /m)	8,340	8,971	9,603	10,613	12,128	14,652
W ₂ (cm ³ /m)	23,514	25,298	27,083	29,939	34,225	41,374

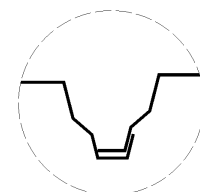
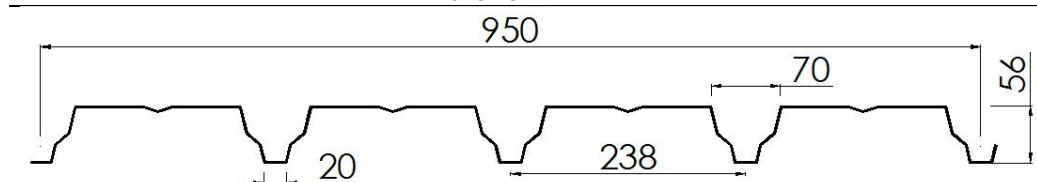
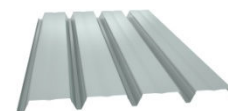
GEOMETRICAL CHARACTERISTICS

CHARACTERISTIC	VALUE	UNIT	TOLERANCE
Depth of profile (h)	56	mm	± 1,5
Depth of stiffeners	4	mm	± 1,0
Pitch	237,5	mm	± 3,0
Widths of crown and valley (b ₁ , b ₂)	(20,167,5)	mm	+2,0/-1,0
Cover width (w)	950	mm	± h/10 (max.: 15 mm)
Radius of bends (r)	---	mm	+ 2,0 / 0,0
Deviation from straightness (δ)	≤ tolerance	mm	2,0 / m (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: 1.200 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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EN 14782:2006




OVERLAP DETAIL

SECTION DETAIL

3D DETAIL

EXPERIMENTALS CHARACTERISTICS

In accordance with tests based on the standard NF P 34-503 controlled by SOCOTEC (AM 7451).

Moments		Thickness (mm)					
		0,70	0,75	0,80	0,88	1,00	1,20
Bending M. - Concentrated load (m · daN / m)	MC	202,26	216,71	231,15	254,27	288,94	346,73
M. of inertia - Simple beam (cm ⁴ / m)	I2	42,76	45,81	48,87	53,76	61,09	73,31
M. of inertia - Two equal spans (cm ⁴ / m)	I3	32,11	34,41	36,70	40,37	45,88	55,06
M. of inertia - Continuous beam (cm ⁴ / m)	Im	37,44	40,11	42,78	47,06	53,48	64,18
Bending M. - At beam - Sist. Elast. (m · daN / m)	M2T	265,44	284,00	302,57	332,27	376,83	452,20
Bending M. - At beam - Sist. Elast.-Plast. (m · daN / m)	M3T	335,71	359,17	382,63	420,16	476,46	571,75
Bending M. - At support (m · daN / m)	M3A	271,88	290,78	309,68	339,93	385,29	462,35

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

In accordance with French standard NF P 84-206 (DTU 43.3)

Variable actions (kN/m ²)	Permanent actions (kN/m ²)																		
		Thickness (mm)																	
		0,70	0,75	0,80	0,88	1,00	1,20	0,70	0,75	0,80	0,88	1,00	1,20	0,70	0,75	0,80	0,88	1,00	1,20
1,00	0,15	2,88	3,09	3,16	3,26	3,41	3,62	3,73	3,81	3,90	4,02	4,20	4,46	3,60	3,68	3,76	3,88	4,05	4,31
	0,20	2,88	3,09	3,15	3,25	3,40	3,61	3,72	3,80	3,89	4,01	4,19	4,45	3,59	3,67	3,75	3,87	4,04	4,29
	0,25	2,88	3,05	3,11	3,21	3,35	3,56	3,67	3,75	3,84	3,96	4,13	4,39	3,54	3,62	3,70	3,82	3,99	4,24
	1,00	2,56	2,62	2,68	2,76	2,88	3,06	2,97	3,07	3,17	3,32	3,53	3,78	3,03	3,12	3,18	3,29	3,43	3,64
1,25	0,15	2,81	2,87	2,94	3,03	3,16	3,36	3,46	3,54	3,62	3,73	3,90	4,14	3,34	3,42	3,49	3,60	3,76	4,00
	0,25	2,81	2,87	2,94	3,03	3,16	3,36	3,41	3,52	3,62	3,73	3,90	4,14	3,34	3,42	3,49	3,60	3,76	4,00
1,50	0,15	2,64	2,70	2,76	2,85	2,98	3,16	3,26	3,33	3,40	3,51	3,67	3,90	3,14	3,22	3,29	3,39	3,54	3,76
	0,25	2,64	2,70	2,76	2,85	2,98	3,16	3,16	3,27	3,38	3,51	3,67	3,90	3,14	3,22	3,29	3,39	3,54	3,76
	1,20	2,32	2,38	2,43	2,51	2,62	2,78	2,56	2,65	2,73	2,87	3,05	3,34	2,61	2,70	2,78	2,92	3,11	3,31
1,75	0,15	2,51	2,57	2,62	2,71	2,83	3,00	3,04	3,14	3,23	3,34	3,48	3,70	2,98	3,05	3,12	3,22	3,36	3,57
	0,25	2,51	2,57	2,62	2,71	2,83	3,00	2,97	3,07	3,17	3,32	3,48	3,70	2,97	3,05	3,12	3,22	3,36	3,57
2,00	0,15	2,40	2,46	2,51	2,59	2,70	2,87	2,86	2,96	3,05	3,19	3,33	3,54	2,85	2,92	2,98	3,08	3,22	3,42
	0,25	2,40	2,46	2,51	2,59	2,70	2,87	2,80	2,90	2,99	3,13	3,33	3,54	2,80	2,90	2,98	3,08	3,22	3,42

Equally spaced supports in continuous beams, with a maximum difference between adjacent span lower than 20%, in accordance with DTU 43.3.

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