

**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

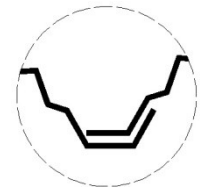
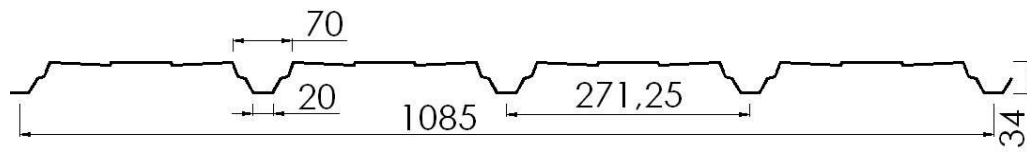
	Thickness (mm)					
	0,70	0,75	0,80	0,88	1,00	1,20
Weight (kg/m <sup>2</sup> )	6,33	6,78	7,24	7,96	9,04	10,85
I <sub>g</sub> (cm <sup>4</sup> /ml)	9,979	10,735	11,491	12,700	14,514	17,538
W <sub>1</sub> (cm <sup>3</sup> /ml)	3,638	3,910	4,181	4,615	5,262	6,336
W <sub>2</sub> (cm <sup>3</sup> /ml)	13,727	14,717	15,699	17,257	19,563	23,325

**GEOMETRICAL CHARACTERISTICS**

CHARACTERISTIC	VALUE	UNIT	TOLERANCE
Depth of profile (h)	34	mm	± 1,0
Depth of stiffeners	4	mm	± 1,0
Pitch	271	mm	± 2,0
Widths of crown and valley (b <sub>1</sub> ,b <sub>2</sub> )	(20,201)	mm	+2,0/-1,0
Cover width (w)	1.085	mm	± 5
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 <sup>(1)</sup>	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 <sup>(2)</sup> / Class C-s3,d0 <sup>(3)</sup>		
<sup>(1)</sup> Maximum length: 14.000 mm; Minimum length: 1.800 mm			
<sup>(2)</sup> Class A1: According to commission decision 96/603/CE			
<sup>(3)</sup> 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 (BM 7339).

		Thickness (mm)					
		0,70	0,75	0,80	0,88	1,00	1,20
<b>Moments</b>							
Bending M. - Concentrated load (m · daN / m)	MC	109,15	116,94	124,74	137,21	155,93	187,11
M. of inertia - Simple beam (cm <sup>4</sup> / m)	I2	9,96	10,67	11,38	12,52	14,22	17,07
M. of inertia - Two equal spans (cm <sup>4</sup> / m)	I3	7,07	7,57	8,08	8,89	10,10	12,12
M. of inertia - Continuous beam (cm <sup>4</sup> / m)	Im	8,51	9,12	9,73	10,70	12,16	14,59
Bending M. - At beam - Sist. Elast. (m · daN / m)	M2T	124,06	132,76	141,46	155,38	176,26	211,06
Bending M. - At beam - Sist. Elast.-Plast. (m · daN / m)	M3T	145,34	155,47	165,61	181,82	206,14	246,67
Bending M. - At support (m · daN / m)	M3A	126,61	135,41	144,21	158,28	179,39	214,54

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

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

Variable actions (kN/m <sup>2</sup> )	Permanent actions (kN/m <sup>2</sup> )																		
		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	1,61	1,73	1,83	2,00	2,10	2,22	2,00	2,07	2,14	2,24	2,39	2,62	2,00	2,07	2,14	2,24	2,39	2,62
	0,20	1,61	1,73	1,83	1,99	2,07	2,19	2,00	2,07	2,14	2,24	2,39	2,62	2,00	2,07	2,14	2,24	2,39	2,59
	0,25	1,61	1,73	1,83	1,97	2,05	2,17	2,00	2,07	2,14	2,24	2,39	2,62	2,00	2,07	2,14	2,24	2,39	2,56
	1,00	1,57	1,61	1,64	1,69	1,77	1,87	1,90	1,95	1,99	2,05	2,14	2,26	1,86	1,90	1,94	2,00	2,08	2,21
1,25	0,15	1,61	1,73	1,81	1,86	1,95	2,07	2,00	2,07	2,14	2,24	2,35	2,50	2,00	2,07	2,13	2,20	2,30	2,44
	0,25	1,61	1,73	1,80	1,86	1,93	2,05	2,00	2,07	2,14	2,24	2,34	2,48	2,00	2,07	2,13	2,19	2,28	2,42
1,50	0,15	1,61	1,66	1,70	1,75	1,83	1,95	1,97	2,01	2,06	2,12	2,21	2,35	1,92	1,96	2,01	2,07	2,16	2,30
	0,25	1,61	1,66	1,70	1,75	1,83	1,95	1,97	2,01	2,06	2,12	2,21	2,35	1,92	1,96	2,01	2,07	2,16	2,30
	1,20	1,43	1,46	1,49	1,54	1,60	1,70	1,71	1,77	1,80	1,86	1,94	2,06	1,69	1,72	1,76	1,82	1,89	2,01
1,75	0,15	1,54	1,58	1,61	1,67	1,74	1,85	1,87	1,91	1,95	2,02	2,10	2,24	1,82	1,86	1,90	1,97	2,05	2,18
	0,25	1,54	1,58	1,61	1,67	1,74	1,85	1,87	1,91	1,95	2,02	2,10	2,24	1,82	1,86	1,90	1,97	2,05	2,18
2,00	0,15	1,48	1,51	1,54	1,59	1,66	1,77	1,79	1,83	1,87	1,93	2,01	2,14	1,74	1,78	1,82	1,88	1,96	2,09
	0,25	1,48	1,51	1,54	1,59	1,66	1,77	1,79	1,83	1,87	1,93	2,01	2,14	1,74	1,78	1,82	1,88	1,96	2,09

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.com](mailto:tecnico@europafil.com) or by phone).  
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