

SCOPE:

Self-supporting metal sheet for external walls (horizontally or vertically laid) made from metallic coated steel sheet with or without additional organic coatings.

MATERIAL (Steel)

CHARACTERISTIC	STANDARD 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)	5,43	6,33	6,78	7,24	9,04	10,85
I _g (cm ⁴ /ml)	8,467	9,979	10,735	11,491	14,514	17,538
W ₁ (cm ³ /ml)	3,092	3,638	3,910	4,181	5,262	6,336
W ₂ (cm ³ /ml)	11,728	13,727	14,717	15,699	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 ₁ , b ₂)	(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 / 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

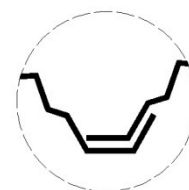
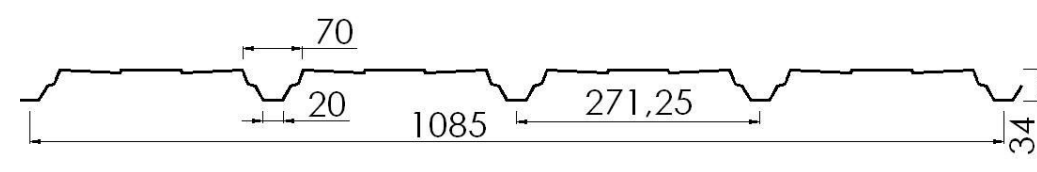
⁽²⁾ Class A1: According to commission decision 2010/737/UE

⁽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

LOAD TABLES (daN/m²) – Limitation of deflection: L/200

	POSITIVE LOADS						NEGATIVE LOADS					
	Thickness (mm)											
SPAN (m)	0,60	0,70	0,75	0,80	1,00	1,20	0,60	0,70	0,75	0,80	1,00	1,20
1,50	162						162					
1,75	102	150	161	172			102	150	161	172		
2,00	68	101	108	115	144	173	68	101	108	115	144	173
2,25		71	76	81	101	121		71	76	81	101	121
2,50		52	55	59	74	88		52	55	59	74	88
2,75					55	66					55	66

	POSITIVE LOADS						NEGATIVE LOADS					
	Thickness (mm)											
SPAN (m)	0,60	0,70	0,75	0,80	1,00	1,20	0,60	0,70	0,75	0,80	1,00	1,20
2,00	137	178	191				137	171	186			
2,25	96	125	134	143	179		96	122	132	142	179	
2,50	70	91	98	104	130	156	70	91	97	104	130	156
2,75	53	69	73	78	98	118	53	69	74	78	98	118
3,00		53	56	60	75	90		54	57	61	75	90
3,25					59	71					59	71

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