

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	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)	7,19	7,99	8,56	9,13	11,41	13,69
I _g (cm ⁴ /ml)	25,894	28,967	31,161	33,355	42,133	50,911
W ₁ (cm ³ /ml)	12,601	14,072	15,120	16,165	20,321	24,436
W ₂ (cm ³ /ml)	10,753	12,011	12,908	13,803	17,363	20,894

GEOMETRICAL CHARACTERISTICS

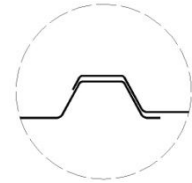
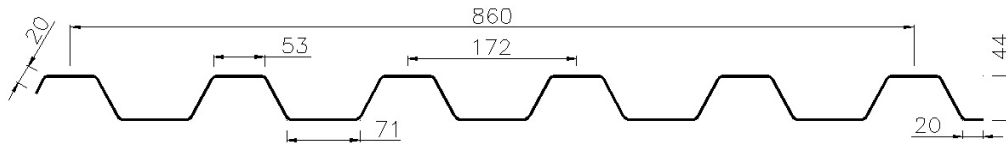
CHARACTERISTIC	VALUE	UNIT	TOLERANCE
Depth of profile (h)	44	mm	± 1,0
Depth of stiffeners	---	mm	---
Pitch	172	mm	± 2,0
Widths of crown and valley (b ₁ , b ₂)	(53,71)	mm	+2,0/-1,0
Cover width (w)	860	mm	± 5,0
Radius of bends (r)	6	mm	+ 2,0 / 0,0
Deviation from straightness (δ)	≤ tolerance	mm	2,0 / ml (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 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

SPAN (m)	POSITIVE LOADS						NEGATIVE LOADS					
	Thickness (mm)						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
2,50	134	149	161	172			134	149	161	172		
2,75	100	112	121	129	163	197	100	112	121	129	163	197
3,00	77	87	93	100	126	152	77	87	93	100	126	152
3,25	61	68	73	78	99	120	61	68	73	78	99	120
3,50		54	59	63	79	96		54	59	63	79	96
3,75				51	64	78				51	64	78

SPAN (m)	POSITIVE LOADS						NEGATIVE LOADS					
	Thickness (mm)						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
3,25	146	163	176	188			146	163	176	188		
3,50	117	131	141	151	190		117	131	141	151	190	
3,75	95	106	114	123	155	187	95	106	114	123	155	187
4,00	78	88	94	101	128	154	78	88	94	101	128	154
4,25	65	73	79	84	106	128	65	73	79	84	106	128
4,50	55	62	66	71	90	108	55	62	66	71	90	108
4,75		52	56	60	76	92		52	56	60	76	92
5,00				52	65	79				52	65	79

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