

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)	5,22	5,80	6,21	6,62	8,28	9,94
I _g (cm ⁴ /ml)	3,669	4,104	4,415	4,726	5,970	7,213
W ₁ (cm ³ /ml)	1,930	2,159	2,322	2,486	3,139	3,791
W ₂ (cm ³ /ml)	9,184	10,281	11,065	11,849	14,994	18,151

GEOMETRICAL CHARACTERISTICS

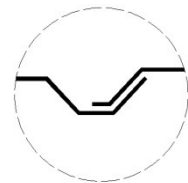
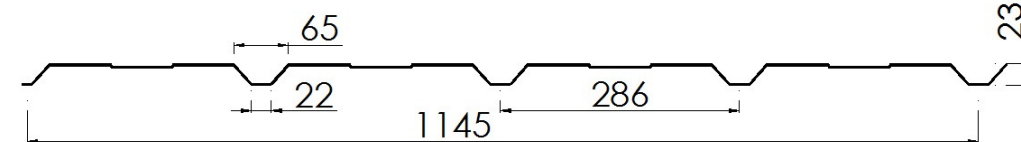
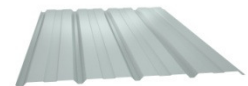
CHARACTERISTIC	VALUE	UNIT	TOLERANCE
Depth of profile (h)	23	mm	± 1,0
Depth of stiffeners	4	mm	± 1,0
Pitch	286	mm	± 2,0
Widths of crown and valley (b ₁ , b ₂)	(22,221)	mm	+2,0/-1,0
Cover width (w)	1.145	mm	± 5
Radius of bends (r)	---	mm	+ 2,0 / 0,0
Deviation from straightness (δ)	≤ tolerance	mm	2,0 /ml (Max.: 10,0)
Deviation from squareness (s)	≤ tolerance	mm	≤ 0,5% de (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: 16.900 mm; Minimum length: 1.200 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

According to « Règles professionnelles pour la fabrication et la mise en œuvre des bardages métalliques (janvier 1981) ».

SPAN (m)	POSITIVE LOADS						NEGATIVE LOADS					
	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
1,20	134	156	168	179	223	268	152	252	270	288		
1,30	115	134	144	154	192	230	131	194	208	222		
1,40	100	117	125	133	167	200	113	152	163	174		
1,50	88	103	110	117	147	176	99	121	130	139		
1,60	78	91	98	105	130	156	88	98	105	112	140	168
1,70	69	81	86	92	115	138	78	80	86	92	114	137
1,80	59	69	74	79	98	118	64	66	71	76	94	113
1,90	51	60	64	68	85	102	54	59	63	67	84	101
2,00	44	51	59	63	73	88	45	53	57	61	76	91
2,10			52	55	65	78	38	48	51	54	69	83
2,20					57	68		43	46	49	61	73
2,30					50	60		39	42	45	56	67
2,40								36	39	42	51	61
2,50									38	41	47	56
2,60									35	37	44	53
2,70											40	48
2,80											37	44

 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
1,20	182	259	278	297			140	232	249	266		
1,30	155	221	237	253			126	192	206	220		
1,40	134	190	204	218	271	325	114	161	173	185	230	276
1,50	116	166	178	190	237	284	103	137	147	157	196	235
1,60	102	146	156	166	209	251	93	118	126	134	169	203
1,70	91	129	138	147	184	221	85	102	109	116	146	175
1,80	81	115	123	131	164	197	76	90	96	102	129	155
1,90	73	102	109	116	146	175	67	81	87	93	116	139
2,00	66	90	96	102	129	155	60	74	79	84	106	127
2,10	59	80	86	92	114	137	54	68	73	78	97	116
2,20	54	71	76	81	101	121	49	62	66	70	89	107
2,30	50	63	68	73	90	108	44	57	61	65	81	97
2,40		57	61	65	81	97	40	53	57	61	76	91
2,50		51	55	59	73	88	37	49	53	57	70	84
2,60			50	53	67	80		45	48	51	64	77
2,70					61	73		42	45	48	60	72
2,80					56	67		39	42	45	56	67
2,90					51	61		37	40	43	53	64
3,00								35	38	41	50	60
3,10								33	35	37	47	56

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