

SCOPE

Self-supporting cassette (tray) for wall cladding as an inner surface (horizontally or vertically laid) made from metallic coated steel sheet with or without additional organic coatings.

MATERIAL (Steel)

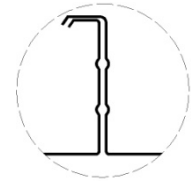
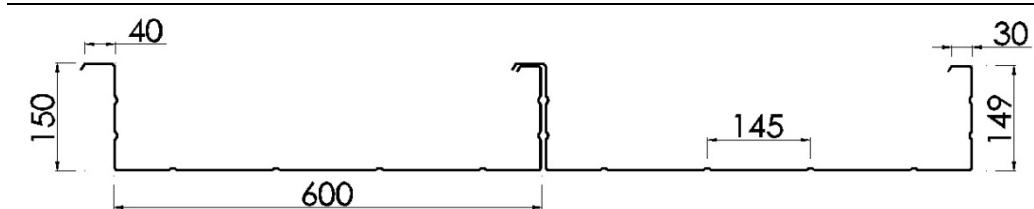
CHARACTERISTIC	STAND. REF.	Thickness (mm)				
		0,70	0,75	0,80	1,00	1,20
Weight (kg/m ²)		9,17	9,83	10,48	13,10	15,72
I _g (cm ⁴ /ml)		348,386	374,780	401,173	506,750	612,331
W ₁ (cm ³ /ml)		90,508	97,327	104,141	131,345	158,466
W ₂ (cm ³ /ml)		31,243	33,615	35,987	45,482	54,987

GEOMETRICAL CHARACTERISTICS

CHARACTERISTIC	VALUE	UNIT	TOLERANCE
Depth of profile (h)	150	mm	± 2,0
Depth of stiffeners	7	mm	± 1,0
Pitch	600	mm	± 4,0
Widths of crown and valley (b ₁ , b ₂)	---	mm	---
Cover width (w)	600	mm	± h/10 (max.: 15 mm)
Radius of bends (r)	6	mm	+ 2,0 / 0,0
Deviation from straightness (δ)	≤ tolerance	mm	2,0 / m (Máx.: 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: 16.990 mm; Minimum length: 2.500 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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OVERLAP DETAIL

SECTION DETAIL

3D DETAIL

INSTALLATION GUIDE

Bearing material	Metalic	Steel inside concrete	Wood
Minimum bearing thickness	1.50 mm for screws 6.00 mm for nails	Tube or U for screws: 3.00 mm (depth ≥ 20 mm) Plate for nails: 6.00 mm	80 mm
Minimum end support bearing face	60 mm	60 mm	60 mm
Minimum intermediate support bearing face	60 mm	60 mm	60 mm
Minimum two trays support bearing face	90 mm	90 mm	120 mm
Minimum distance from fastener to tray edge	20 mm & 3x fastener diameter	20 mm & 3x fastener diameter	20 mm
Minimum distance from fastener to bearing edge	20 mm & 3x fastener diameter	20 mm & 3x fastener diameter	30 mm & 4x fastener diameter


Fasteners at supports:


Each cassette (tray) must be fixed, at least, in three points per support. The number of screws depends on the negative wind load, the support and its thickness and the screw type.

Longitudinal joint connector:

The screws (diameter 4.8 mm) must be located at the rib height (1 screw per meter maximum). They can be replaced by screws for Z or omega profile, or for cladding profile.

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

 SPAN (m)	POSITIVE LOADS					NEGATIVE LOADS				
	Thickness (mm)									
	0,70	0,75	0,80	1,00	1,20	0,70	0,75	0,80	1,00	1,20
4,25	82	103	125			86	103	125		
4,50	77	97	118	175		81	97	118	175	
4,75	73	92	112	166		77	92	112	166	
5,00	70	88	106	158		73	88	106	158	
5,25	66	83	101	150		69	83	101	143	
5,50	63	80	97	136	178	66	80	95	132	161
5,75	61	76	92	119	163	63	75	86	115	141
6,00	58	73	86	105	150	60	66	75	101	124
6,25	56	69	79	93	137	53	58	67	90	110
6,50	54	64	72	82	122	47	52	59	80	97
6,75	51	59	65	74	109	42	46	53	71	87
7,00	47	55	60	66	97	38	42	48	64	78
7,25		51	54	59	88	34	37	43	58	70
7,50		48	50	54	79		34	39	52	63
7,75				49	72				47	57
8,00					65					52

 SPAN (m)	POSITIVE LOADS					NEGATIVE LOADS				
	Thickness (mm)									
	0,70	0,75	0,80	1,00	1,20	0,75	0,80	1,00	1,20	
4,25	116	134	156			109	137	166		
4,50	109	123	143			103	130	157		
4,75	102	113	131			98	123	149		
5,00	97	105	121	167		93	117	141	210	
5,25	90	97	112	155		88	111	134	194	
5,50	84	90	104	143		84	106	128	177	
5,75	78	84	97	133		81	102	123	162	
6,00	73	79	91	124		77	97	116	149	
6,25	69	74	85	115		74	93	109	138	
6,50	65	69	79	108	175	71	88	102	127	161
6,75	60	64	74	101	165	69	82	95	118	149
7,00	55	59	69	95	155	66	77	89	110	139
7,25	51	55	65	89	146	64	73	83	103	129
7,50	48	52	61	84	138	62	68	78	96	121
7,75		48	57	79	130		64	73	90	113
8,00				75	124				85	107

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