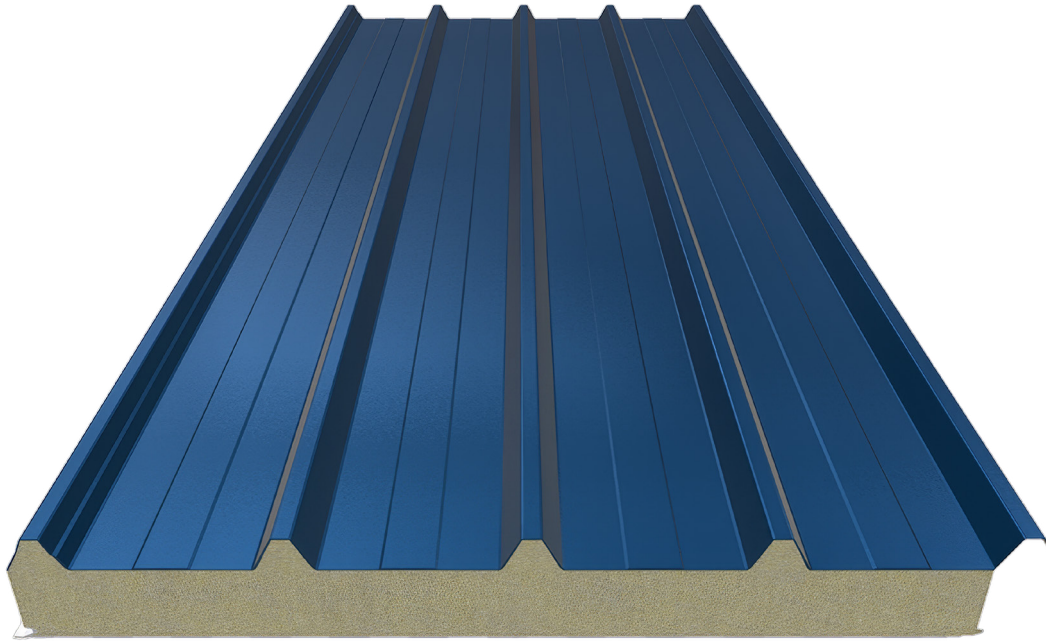




ThermaMagma COV Ridg

Self-supporting insulated roof panels with an external trapezoidal metal facing and a stone wool core, suitable for roofing applications on all types of buildings

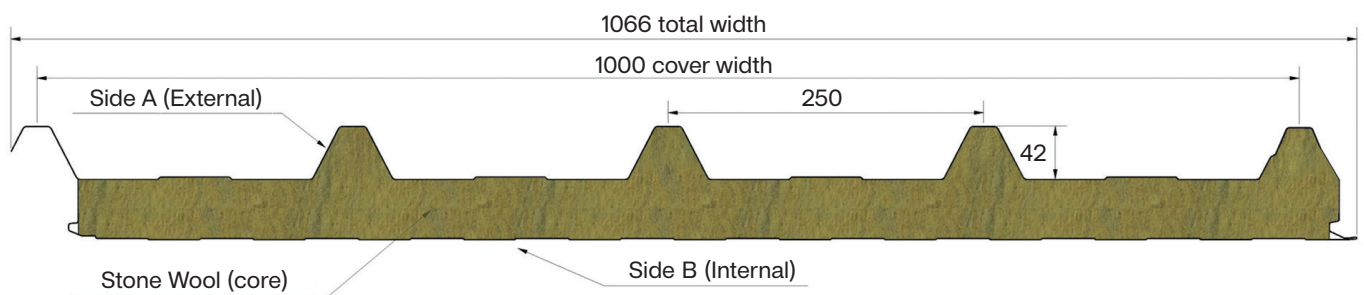


Available in

Effective cover width 1,000 mm | Nominal thickness from 50 mm to 220 mm

Bespoke lengths from 2 m to 14 m, depending on project requirements

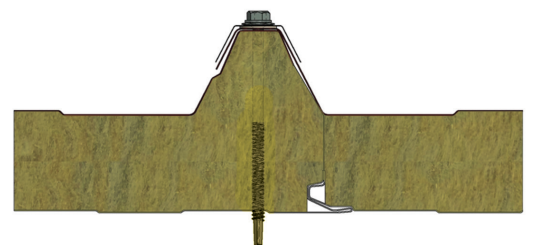
5-rib trapezoidal profile with a profile height of 42 mm and a pitch of 250 mm



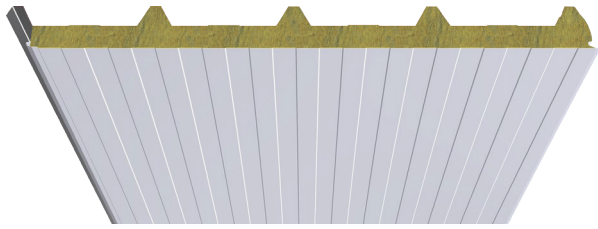
They are fixed to the supporting structure using the standard visible fixing method.

Designed for roofs with a minimum slope of 10%.

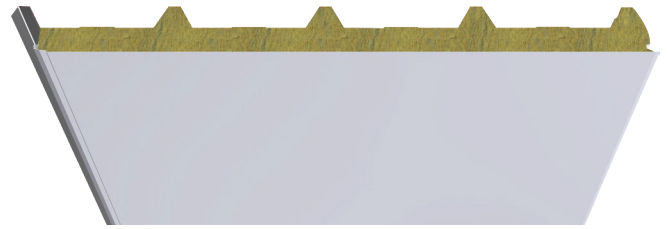
In this case, the panels must have a right-hand or left-hand side overlap, depending on the project specifications, with an overlap length ranging from 50 mm to 300 mm.



Internal facing profile options



Box 83 (39-44)



Flat

Technical Specifications

Dimensional Tolerances

(according to the EN 14509)

Metal Sheet Thickness > 0,50mm

Panel thickness	$\pm 2 \text{ mm} / \pm 2 \%$	$D \leq 100 \text{ mm} / D > 100 \text{ mm}$
Deviation from flatness	$\leq 0,6 \text{ mm} / \leq 1,0 \text{ mm} / \leq 1,5 \text{ mm}$	$Li = 200 \text{ mm} / Li = 400 \text{ mm}$ $Li = 700 \text{ mm}$
Depth of the profile (rib height)	$\pm 1 \text{ mm} / \pm 2,5 \text{ mm}$	$5 < h \leq 50 \text{ mm} / 50 < h \leq 100 \text{ mm}$
Depth of light profile	$\pm 30 \% / \pm 0,3 \text{ mm} / \pm 10 \%$	$ds \leq 1 \text{ mm} / 1 \leq ds < 3 \text{ mm}$ $3 \leq ds < 5 \text{ mm}$
Panel length	$\pm 5 \text{ mm} / \pm 10 \text{ mm}$	$L \leq 3000 \text{ mm} / L > 3000 \text{ mm}$
Panel cover width	$\pm 2 \text{ mm}$	$W = 1000 \text{ mm}$
Deviation from squareness	$\leq 6 \text{ mm}$	$W = 1000 \text{ mm}$
Deviation from straightness	$\leq 1 \text{ mm/m}$	$\leq 5 \text{ mm}$
Bowing (Length)	$\leq 2 \text{ mm/m}$	$\leq 20 \text{ mm}$
Bowing (Width)	$\leq 8,5 \text{ mm/m} / \leq 10 \text{ mm/m}$	$h \leq 10 \text{ mm} / h > 10 \text{ mm}$
Pitch of profile	$\pm 2 \text{ mm} / \pm 3 \text{ mm}$	$h \leq 50 \text{ mm} / h > 50 \text{ mm}$
Ribs width	$\pm 1 \text{ mm}$	For b1 value
Valleys width	$\pm 2 \text{ mm}$	For b2 value

Panel nominal thickness	Panel weight	Thermal Transmittance	Fire resistance
[mm]	[kg/m ²]	U [W/m ² .K]	-
50	15,2	0,63	REI 45
60	15,9	0,53	REI 120
80	18,3	0,40	REI 120
100	19,9	0,32	REI 120
120	22,2	0,27	REI 120
150	25,3	0,21	REI 240
200	30,4	0,16	-
220	32,5	0,15	-

Panel weight and thermal transmittance were calculated based on:

- Core density 100 kg/m³
- Core thermal conductivity 0.033 W/mK
- Steel sheet thicknesses 0.50 / 0.50 mm
- Coating SP

(Standards EN 14509 and EN 10211-2)

Fire resistance indicators

Stone Wool panels are classified in category A2-s1-d0. They do not spread fire, are non-combustible, produce very limited smoke, and do not generate flaming or non-flaming droplets/particles.

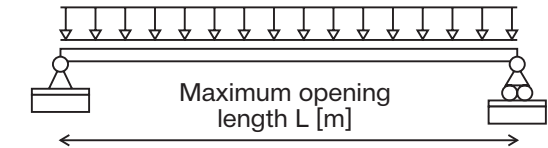
(Standards EN 13501-1 and EN 13501-2)

Max load in span - Load bearing capacity (kg/m²)

Single Span Load Table

PANEL THICKNESS

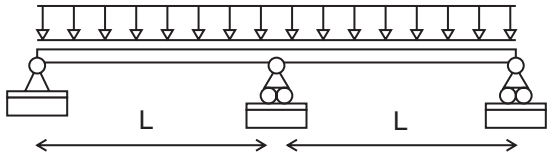
	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
50	220	180	165	140	120	105	85	75	60	-	-	-	-	-	-
60	255	210	180	160	140	125	105	95	85	65	-	-	-	-	-
80	300	260	220	190	165	155	140	125	115	90	85	75	65	-	-
100	345	285	250	220	190	170	160	145	130	115	95	85	75	75	65
120	350	300	255	225	200	175	165	150	135	125	115	105	95	85	80
150	360	305	260	235	205	180	165	155	140	130	120	110	100	90	85
180	380	315	270	245	215	190	170	160	145	135	125	115	105	95	90



Multi Span Load Table

PANEL THICKNESS

	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00
50	230	190	175	150	130	110	90	80	65	-	-	-	-	-	-
60	270	225	190	170	150	135	115	100	90	70	-	-	-	-	-
80	320	280	235	205	180	165	150	135	125	100	95	80	70	60	-
100	370	310	270	240	205	185	175	155	140	125	105	95	85	85	75
120	-	325	280	245	220	190	180	165	150	140	125	115	105	95	90
150	-	-	290	260	230	200	185	175	155	145	135	125	115	100	95
180	-	-	-	275	245	215	195	185	165	150	140	130	120	105	100



Calculations were carried out in accordance with EN 14509; the values indicate the maximum allowable load or the serviceability limit state (l/200). The facings are steel, with external / internal sheet thicknesses of 0.50 / 0.50 mm respectively. The support width is 100 mm. The anchoring system must be capable of withstanding the maximum allowable loads. The values indicated in the table are indicative.