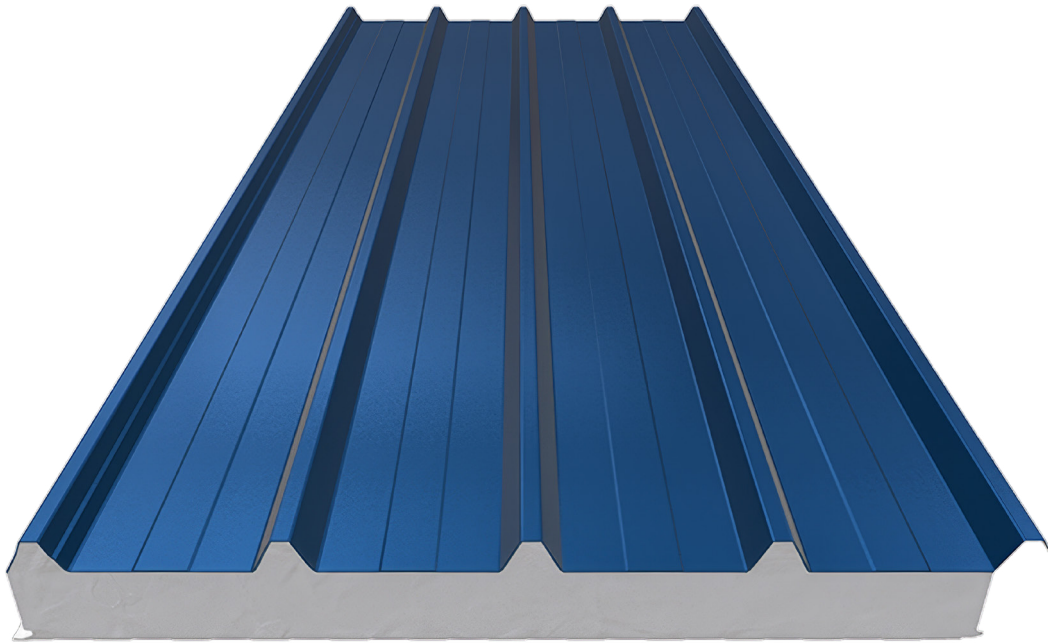




ThermaGard COV Ridg

Self-supporting insulated roof panels with an external trapezoidal metal facing and a High Index polyisocyanurate (PIR) foam core, suitable for roofing applications on all types of buildings

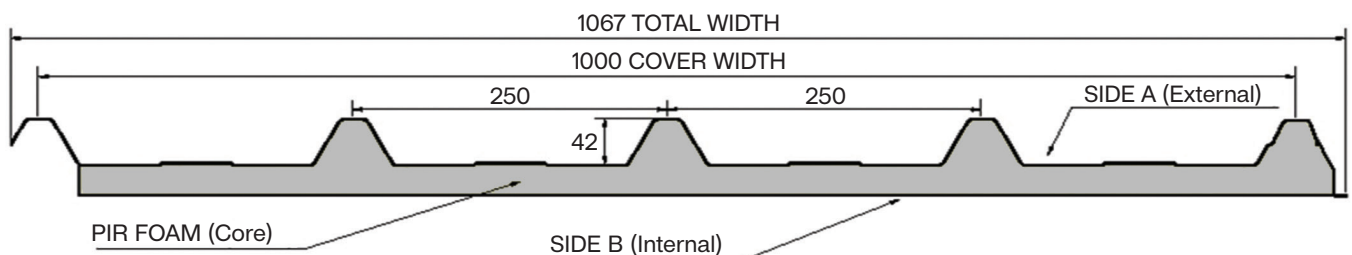


Available in

Effective cover width 1000mm | Nominal thickness from 30mm to 150mm

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

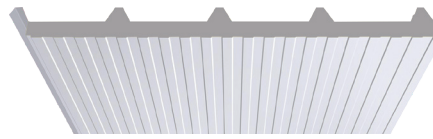
5-rib trapezoidal profile with a profile height of 42 mm and a pitch of 250 mm



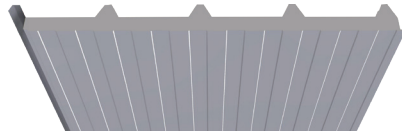
Internal facing profile options



Flat



Mini box 51 (25,5-25,5)



Box 100 (50-50)



Embossed

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	$\leq 1 \text{ mm/m}$	$\leq 5 \text{ mm}$
Bowling (Length)	$\leq 2 \text{ mm/m}$	$\leq 20 \text{ mm}$
Bowling (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
[mm]	[kg/m ²]	U [W/m ² .K]
30	10,6	0,70
40	11,0	0,53
50	11,4	0,43
60	11,8	0,36
80	12,6	0,27
100	13,4	0,22
120	14,2	0,18
150	15,3	0,14

Panel weight and thermal transmittance were calculated based on:

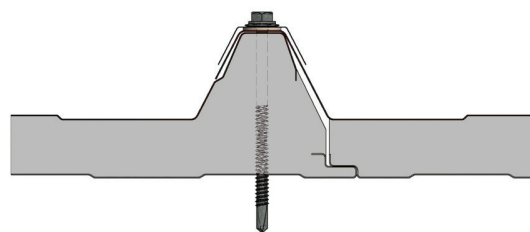
- Core density 40 kg/m³
- Core thermal conductivity 0.023 W/mK
- Steel sheet thicknesses 0.50 / 0.50 mm
- Coating SP

(Standards EN 14509 and EN 10211-2)

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 250 mm.

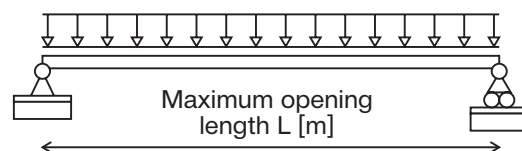


Max load in span - Load bearing capacity (kg/m²)

Single Span Load Table

PANEL THICKNESS

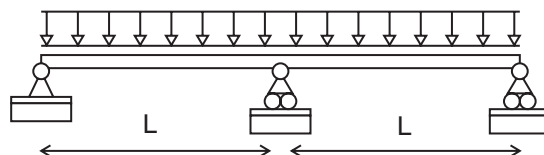
	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,50	5,00
25	1080	740	475	285	185	125	95	75	50	-	-	-	-	-	-
30	1130	755	510	320	215	150	110	85	65	50	-	-	-	-	-
35	-	765	535	365	245	175	125	95	75	60	55	-	-	-	-
50	-	-	695	510	385	305	225	170	130	95	70	60	50	-	-
60	-	-	835	610	465	365	295	240	195	155	120	100	80	65	55
80	-	-	-	780	595	470	375	310	260	215	170	145	120	95	85
100	-	-	-	845	735	580	470	385	320	270	225	195	165	130	115
120	-	-	-	-	885	695	580	465	390	330	280	250	215	185	145
150	-	-	-	-	-	915	770	595	490	430	365	315	275	245	180



Multi Span Load Table

PANEL THICKNESS

	1,00	1,25	1,50	1,75	2,00	2,25	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,50	5,00
25	1210	795	555	405	300	235	185	150	120	95	75	60	-	-	-
30	1270	810	560	410	310	240	195	160	130	105	85	70	60	-	-
35	-	820	565	415	315	245	200	165	135	110	90	75	65	55	-
50	-	-	740	540	410	325	260	215	175	140	110	90	75	65	60
60	-	-	870	635	485	380	305	250	210	175	140	110	90	75	70
80	-	-	-	790	600	470	380	310	260	220	185	150	125	105	90
100	-	-	-	-	750	590	475	390	325	280	240	200	170	145	125
120	-	-	-	-	-	740	585	490	405	350	300	255	220	190	165
150	-	-	-	-	-	-	710	605	495	430	375	325	295	260	210



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 120 mm. The anchoring system must be capable of withstanding the maximum allowable loads.