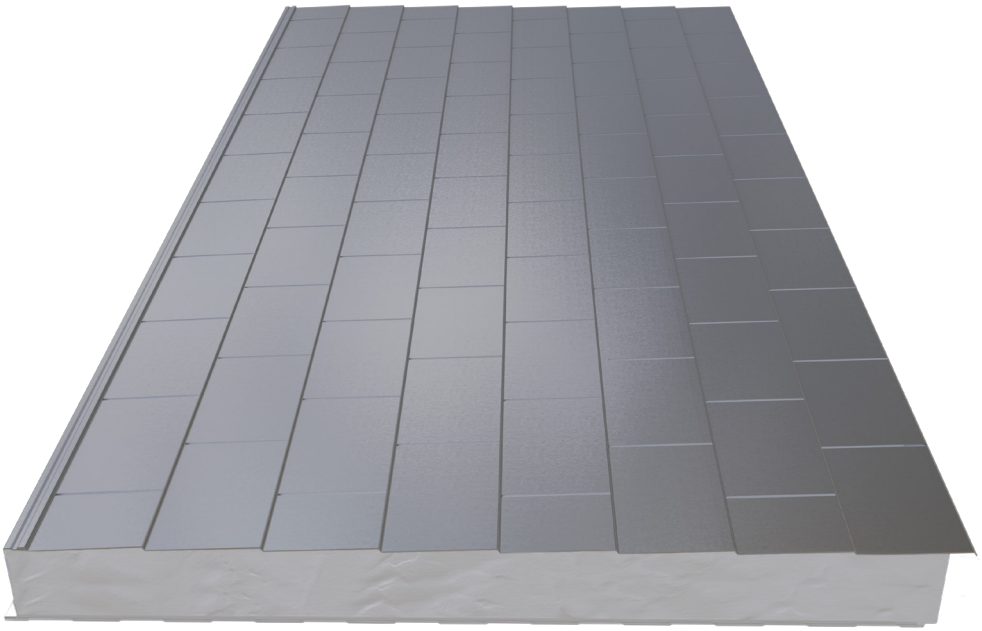
ThermaBarr COV Slate

Self-supporting insulated roof panels with an external metal facing in a slate tile profile and a polyurethane (PUR) foam core, suitable for roofing applications on all types of buildings

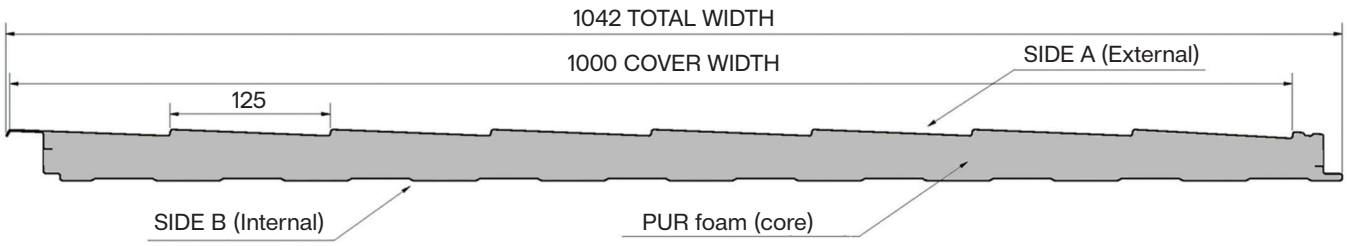


Available in

Effective cover width 1,000mm | Nominal thickness from 40mm to 120mm

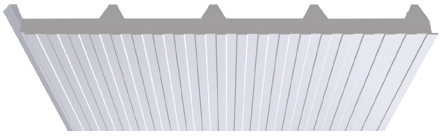
Bespoke lengths from 2m to 14m, depending on project requirements

Slate tile profile with element dimensions 200x125mm

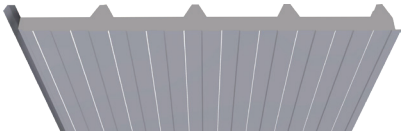


Internal facing profile options

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

Panel nominal thickness	Panel weight	Thermal Transmittance
[mm]	[kg/m²]	U [W/m².K]
40	10,1	0,57
50	10,5	0,45
60	10,9	0,37
80	11,7	0,29
100	12,5	0,23
120	13,3	0,19

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)

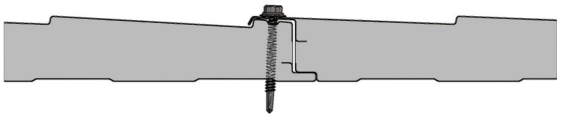
They are fixed to the supporting structure using the standard visible fixing method.

Designed for roofs with a minimum slope of 30%.

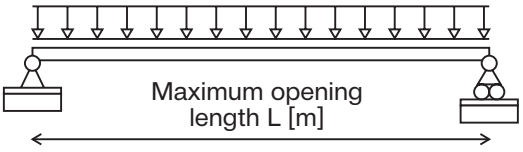
Horizontal installation is recommended.

End-lapping (overlap) is not recommended.

Sealing materials must be used at horizontal and vertical joints.



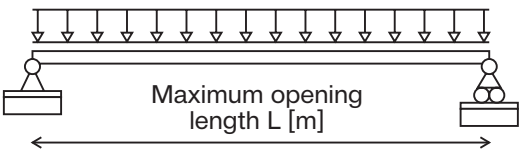
Max load in span - Load bearing capacity (kg/m²)



Single Span Load Table 0,50 / 0,50

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
40	170	130	105	80	65	50	-	-	-	-	-	-	-	-	-
50	215	170	135	110	90	70	60	50	-	-	-	-	-	-	-
60	265	210	175	140	115	95	85	70	55	-	-	-	-	-	-
80	340	275	230	190	135	115	100	85	70	60	55	50	-	-	-
100	410	340	280	235	205	175	150	130	115	100	90	75	70	60	55
120	465	385	325	280	240	205	185	160	140	130	110	100	90	80	70



Single Span Load Table 0,60 / 0,50

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
40	175	135	110	85	70	55	-	-	-	-	-	-	-	-	-
50	220	175	140	115	95	75	65	55	-	-	-	-	-	-	-
60	270	215	180	145	120	100	90	75	60	55	-	-	-	-	-
80	345	280	235	195	140	120	105	90	75	65	60	55	-	-	-
100	415	345	285	240	210	180	155	135	120	105	95	80	75	65	60
120	470	390	330	285	245	210	190	165	145	135	115	105	95	85	75

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 0,50mm / 0,50mm and 0.60 / 0.50mm respectively. The support width is 100 mm. The anchoring system must be capable of withstanding the maximum allowable loads.