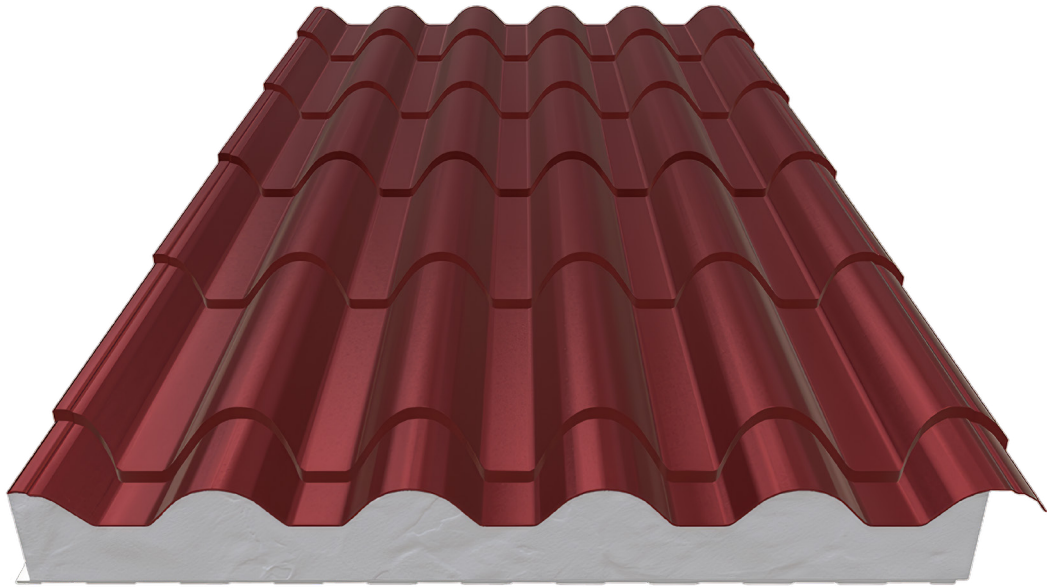




ThermaGard COV Roma

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

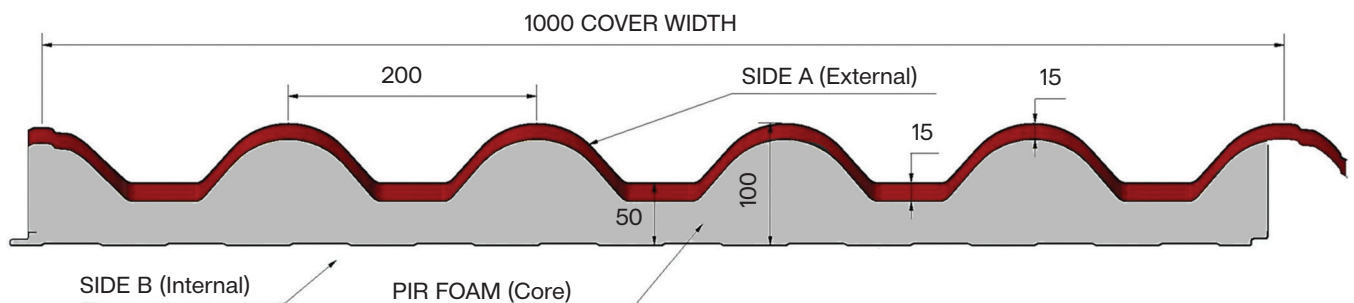


Available in

Effective cover width 1000mm | Average thickness range min 40mm/max 90mm

Bespoke lengths from 1.75m to 14m, depending on project requirements

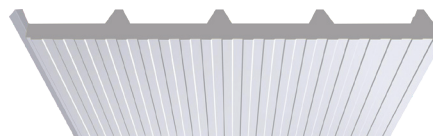
Roman tile profile



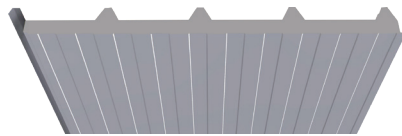
Internal facing profile options



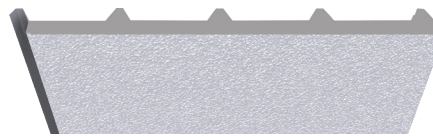
Flat



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	$\leq 1 \text{ mm/m}$	$\leq 5 \text{ mm}$
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

Thermal transmittance U [W/m².K]

0,277

[m]	-	-	1.75	2.10	2.45	2.80	3.15	3.50
[kg]	-	-	17.0	20.4	23.8	27.2	30.6	34.0
[m]	3.85	4.20	4.55	4.90	5.25	5.60	5.95	6.30
[kg]	37.4	40.8	44.2	47.6	51.0	54.4	57.8	61.2
[m]	6.65	7.00	7.35	7.70	8.05	8.40	8.75	9.10
[kg]	64.6	68.0	71.4	74.8	78.2	81.6	85.0	88.4
[m]	-	9.45	9.80	10.15	10.50	10.85	11.20	11.55
[kg]	-	91.8	95.2	98.6	102.0	105.4	108.8	112.2
[m]	-	11.90	12.25	12.60	12.95	13.30	13.65	14.00
[kg]	-	115.6	119.0	122.4	125.8	129.2	132.6	136.0

Panel weight and thermal transmittance were calculated based on:

- Core density 40 kg/m³
- Core thermal conductivity 0,023 W/m.K
- Steel sheet thicknesses 0.40/0.35 mm
- Coating SP

(Standard EN 8990:1996-09)

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

Designed for roofs with a minimum slope of 10%.

Fixings are recommended at the crowns rather than in the valleys.

However, if required by project specifications, the overlap length must be from 350 mm to 450 mm and must match the profile pitch.

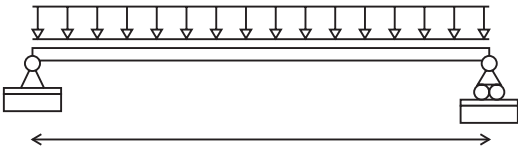


Max load in span - Load bearing capacity (kg/m²)

Single Span Load Table

PANEL THICKNESS

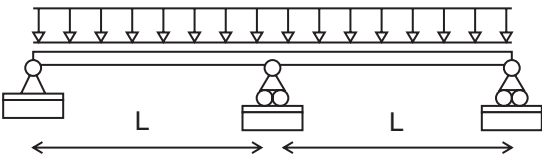
Outer sheet thickness [mm]	Inner sheet thickness [mm]	Nominal panel weight [kg/m ²]	1,05	1,40	1,75	2,10	2,45	2,80	3,15	3,50
0.60	0.50	13.0	350	245	170	130	100	75	50	-
0.50	0.40	11.2	295	200	145	105	85	55	-	-
0.40	0.35	9.7	270	185	135	95	75	50	-	-



Multi Span Load Table

PANEL THICKNESS

Outer sheet thickness [mm]	Inner sheet thickness [mm]	Nominal panel weight [kg/m ²]	1,05	1,40	1,75	2,10	2,45	2,80	3,15	3,50
0.60	0.50	13.0	420	265	185	135	105	80	75	-
0.50	0.40	11.2	350	210	150	110	95	70	-	-
0.40	0.35	9.7	330	200	145	105	90	65	-	-



Calculations were carried out in accordance with EN 14509; the values indicate the maximum allowable load or the serviceability limit state (l/200), and do not include a safety factor. The facings are steel, with external / internal sheet thicknesses. The support width is 100mm. The anchoring system must be capable of withstanding the maximum allowable loads. The values indicated in the table are indicative.