

ThermaGard Wal Integra

Self-supporting insulated wall panels with concealed fixing, metal facings on both sides and a High Index polyisocyanurate (PIR) foam core, suitable for wall cladding applications on all types of buildings

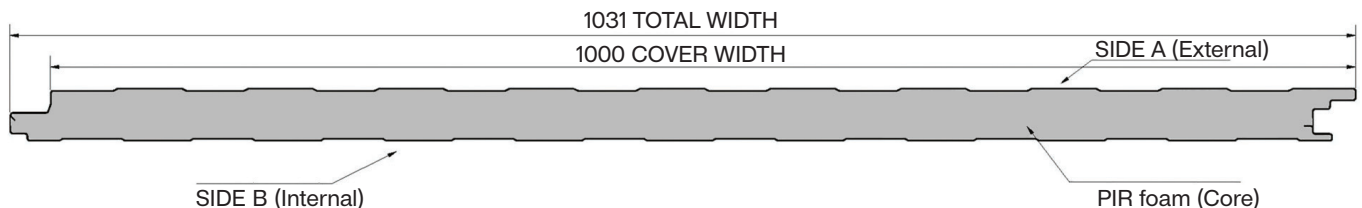


Available in

Effective width 1000mm and 1150mm | Nominal thickness from 40mm to 150mm

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

The support elements are not visible and therefore offer an excellent aesthetic result without compromising the characteristic properties of the panels.

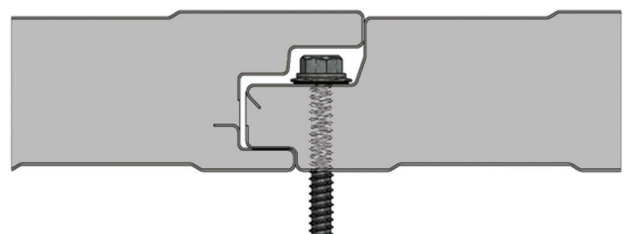


They are fixed to the supporting structure using the standard visible fixing method.

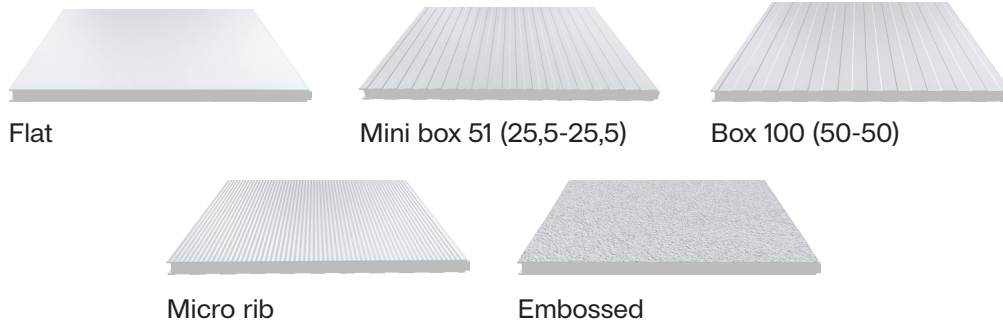
They can be installed either vertically or horizontally.

For horizontal installation, the use of a top hat is recommended to cover the vertical joint.

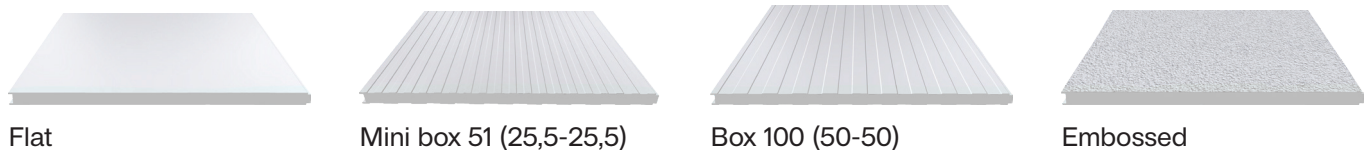
Sealing materials must be used on both horizontal and vertical joints.



External facing profile options



Internal facing profile options



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 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	$\pm 5 \text{ mm} / \pm 10 \text{ mm}$	$L \leq 3000 \text{ mm} / L \leq 3000 \text{ mm}$
Effective 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)	$\leq 8,5 \text{ mm/m} / \leq 10 \text{ mm/m}$	$h \leq 10 \text{ mm} / h \leq 10 \text{ mm}$
Pitch of profile	$\pm 2 \text{ mm} / \pm 3 \text{ mm}$	$h \leq 50 \text{ mm} / h \leq 50 \text{ mm}$
Ribs width	$\pm 1 \text{ mm}$	For b1 value
Valleys width	$\pm 2 \text{ mm}$	For b1 value

Panel nominal thickness	Panel weight	Thermal Transmittance
[mm]	[kg/m ²]	U [W/m ² .K]
40	10,1	0,67
50	10,5	0,51
60	10,9	0,41
80	11,7	0,29
100	12,5	0,23
120	13,3	0,19
150	14,5	0,15

Panel weight and thermal transmittance were calculated based on:

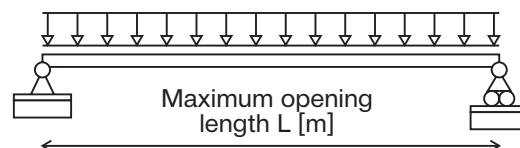
- Core density 40 kg/m³
- Core thermal conductivity 0.023 W/mK
- Steel sheet thicknesses 0.50 / 0.50 mm
- Coating SP

(Standards EN 14509 and EN 10211-2)

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

Single Span Load Table

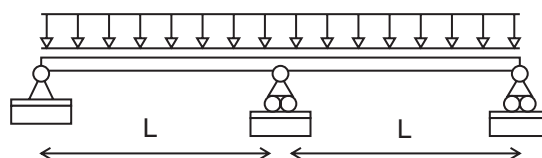
PANEL THICKNESS



	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
40	245	210	185	155	125	105	85	70	65	55	-	-	-	-	-
50	295	250	220	190	155	125	110	90	75	70	60	50	-	-	-
60	340	290	250	225	180	150	125	110	90	80	70	65	55	50	-
80	405	350	305	270	235	195	160	135	115	105	90	80	70	65	55
100	475	410	355	315	280	230	195	160	140	120	110	95	85	75	70
120	530	455	395	355	315	260	215	185	160	140	120	110	95	85	75
150	590	505	440	390	350	295	250	210	185	160	140	120	110	100	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
40	220	165	125	100	80	70	55	50	-	-	-	-	-	-	-
50	255	200	155	120	100	80	70	60	50	-	-	-	-	-	-
60	295	225	175	145	115	95	80	70	60	55	-	-	-	-	-
80	335	275	220	180	150	125	105	90	75	70	65	55	-	-	-
100	360	305	260	215	180	150	125	110	95	80	70	65	60	50	-
120	365	310	270	235	200	165	145	120	110	95	80	70	70	60	55
150	370	315	270	240	210	190	160	145	125	110	100	85	75	70	65

Calculations were carried out in accordance with EN 14509; the values indicate the maximum allowable load or the serviceability limit state (l/100). 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. The values indicated in the table are indicative.