

TOPANEL

TOPANEL[®]
INSULATED PANELS



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TOPANEL

INSULATED PANELS



Topanel, an 8 million Euro Romanian investment, represents the most modern insulated panels manufacturing unit in Romania.

Strategically positioned in the center of the country, the new manufacturing unit ensures an ideal cost for the finished product, being the logical choice in this respect.

Topanel manufactures the entire range of steel panels with polyurethane (PUR), mineral wool and polyisocyanurate (PIR) insulation.

Topanel provides adequate and well documented solutions for a various range of applications, using either sandwich elements, conventional elements or combined products.

Thus, Topanel provides:

-  one of the widest ranges of environmentally friendly products and which can be recycled for the construction of industrial buildings
-  close-to-market manufacturing bases, thus ensuring a prompt delivery
-  well motivated and qualified personnel which can provide specialized consultancy
-  top quality products at attractive prices

Topanel Production Panels is currently present in the country's major cities through representative offices (București, Cluj, Baia Mare, Constanța, Iași, Piatra Neamt, Timișoara, Craiova, Pitesti, Brașov, Focsani) where our trained colleagues can provide expert advice to all potential clients.

Also, TOPANEL has a large network of distribution partners who can ensure all our products nationwide flow.

TOPANEL is also present in Republic of Moldova (Chișinău), Ukraine, Bulgaria, Hungary, Slovakia, Serbia, Croatia, Bosnia, Muntenegru.

TOPANEL also exported significant quantities of sandwich panels by major partner companies in Germany, Belgium and France.

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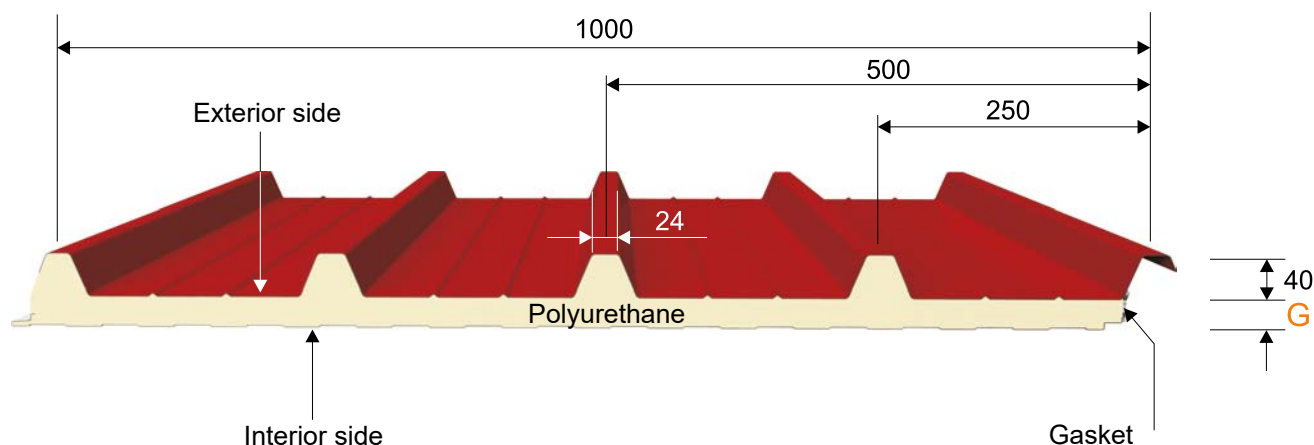
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Self-supporting steel insulated panel with polyurethane core, with 5 ribs, designed for roofs with a minimum slope of 7%.



Upon request, there can be produced thermo-insulated panels of polyisocyanurate (PIR) foam, with fire resistance.

Table of permissible loads**

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,5 mm thick steel exterior side, and 0,4 mm thick steel interior side - subjected at uniform distributed loads (p)

G (mm)	Loadings (daN/m ²)							
	60	80	100	120	150	200	250	300
30	3,70	3,30	2,90	2,50	2,00	1,50	1,20	1,00
40	4,15	3,75	3,35	3,05	2,65	2,05	1,65	1,35
50	4,65	4,20	3,65	3,35	2,95	2,40	2,05	1,70
60	5,10	4,60	4,15	3,75	3,30	2,75	2,40	2,05
80	6,05	5,45	5,05	4,60	4,00	3,40	2,90	2,60
100	6,95	6,25	5,75	5,15	4,65	3,95	3,40	3,05
120	7,75	6,95	6,35	5,95	5,20	4,45	3,85	3,50
150	8,90	8,10	7,40	6,90	6,20	5,30	4,70	4,20

G (mm)	Loadings (daN/m ²)							
	60	80	100	120	150	200	250	300
30	4,05	3,65	3,20	2,75	2,20	1,65	1,30	1,10
40	4,50	4,15	3,70	3,35	2,90	2,25	1,80	1,50
50	5,10	4,60	4,00	3,70	3,25	2,65	2,25	1,85
60	5,60	5,05	4,55	4,15	3,65	3,05	2,65	2,25
80	6,65	6,00	5,55	5,05	4,40	3,75	3,20	2,85
100	7,65	6,90	6,35	5,65	5,10	4,35	3,75	3,35
120	8,55	7,65	7,00	6,55	5,70	4,90	4,25	3,85
150	9,80	8,90	8,15	7,60	6,80	5,85	5,15	4,60

Table of permissible loads**

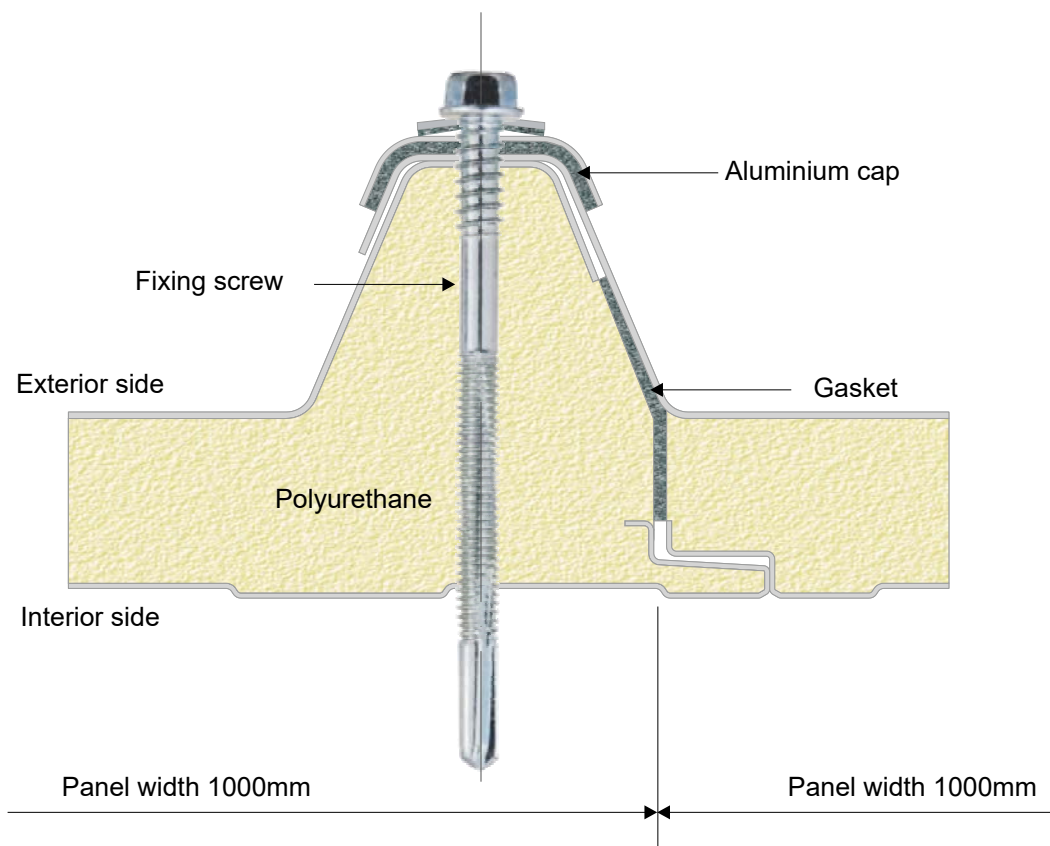
Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,5 mm thick steel exterior side, and 0,5 mm thick steel interior side - subjected at uniform distributed loads (p)

G (mm)	Loadings (daN/m ²)							
	60	80	100	120	150	200	250	300
30	3,60	3,05	2,70	2,45	2,00	1,50	1,20	1,00
40	4,10	3,60	3,20	2,90	2,50	2,05	1,65	1,35
50	4,65	4,15	3,65	3,30	2,90	2,40	2,05	1,70
60	5,15	4,65	4,15	3,70	3,25	2,75	2,35	2,05
80	6,10	5,50	5,00	4,55	4,00	3,40	2,95	2,55
100	6,85	6,30	5,75	5,15	4,70	3,95	3,45	3,05
120	7,75	7,00	6,40	5,95	5,25	4,50	3,90	3,50

G (mm)	Loadings (daN/m ²)							
	60	80	100	120	150	200	250	300
30	3,95	3,35	3,00	2,70	2,20	1,65	1,30	1,10
40	4,50	3,95	3,50	3,20	2,75	2,25	1,80	1,50
50	5,10	4,55	4,00	3,65	3,20	2,64	2,25	1,85
60	5,65	5,10	4,55	4,05	3,60	3,05	2,60	2,25
80	6,70	6,05	5,50	5,00	4,40	3,75	3,25	2,80
100	7,55	6,95	6,35	5,65	5,15	4,35	3,80	3,35
120	8,55	7,70	7,05	6,55	5,80	4,95	4,30	3,85

**The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.

Roof Panel



STEEL (0.5mm) – STEEL (0.4 mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G (mm)	M (kg/m ²)	K	
		(kcal/m ² h °C)	(W/m ² K)
30	9,69	0,46	0,54
40	10,09	0,37	0,43
50	10,49	0,31	0,36
60	10,89	0,28	0,32
80	11,69	0,21	0,24
100	12,49	0,16	0,19
120	13,29	0,15	0,17
150	14,51	0,13	0,14

STEEL (0.5 mm) – STEEL (0.5 mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G (mm)	M (kg/m ²)	K	
		(kcal/m ² h °C)	(W/m ² K)
30	10,52	0,46	0,54
40	10,92	0,37	0,43
50	11,32	0,31	0,36
60	11,72	0,28	0,32
80	12,52	0,21	0,24
100	13,32	0,16	0,19
120	14,12	0,15	0,17

Permissible Loads**

The table contains the free admissible sizes (l) in meters, corresponding to each uniformly distributed load (p), calculated based on experimental data, so as to guarantee a maximum arrow (f) less (no more than) than l/200, considering a safety coefficient (upon breaking stress when bending) greater than or equal to 3.

Thermal transfer coefficients

The values were determined in an authorized laboratory, using the value of lambda thermal conductivity (measured at 10°C) of 0.021 W/mK (0.017 kcal/mhC), according to EN 12667:2002.

**The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.

Self-supporting steel insulated panel with polyurethane core, with 5 ribs, designed for roofs with a minimum slope of 7%. The inner face of the panel is made of **polyester resin reinforced with fiberglass**.

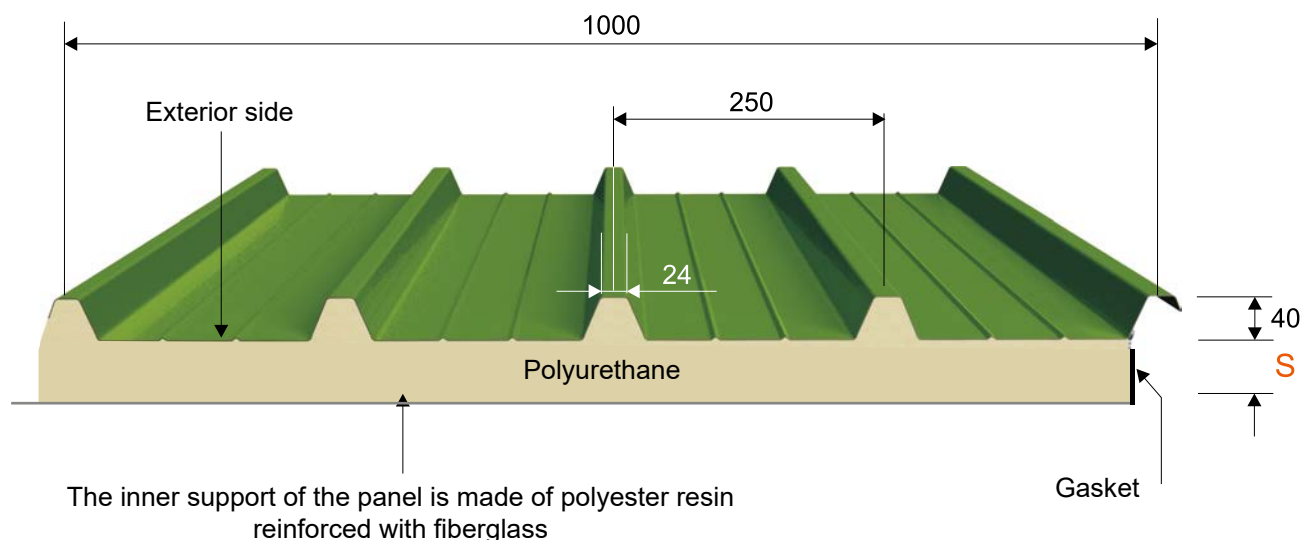


Table of permissible loads**

Panel arranged horizontally on one and three openings, with the following load values: $p=100\text{ daN/m}^2$; $p=120\text{ daN/m}^2$; $p=150\text{ daN/m}^2$; $p=200\text{ daN/m}^2$; $p=250\text{ daN/m}^2$; $p=300\text{ daN/m}^2$.

The calculation is performed according to SR-EN 14509 for the service limit state and considers as calculation value, the maximum value of the load in the wrapping of the action combinations.

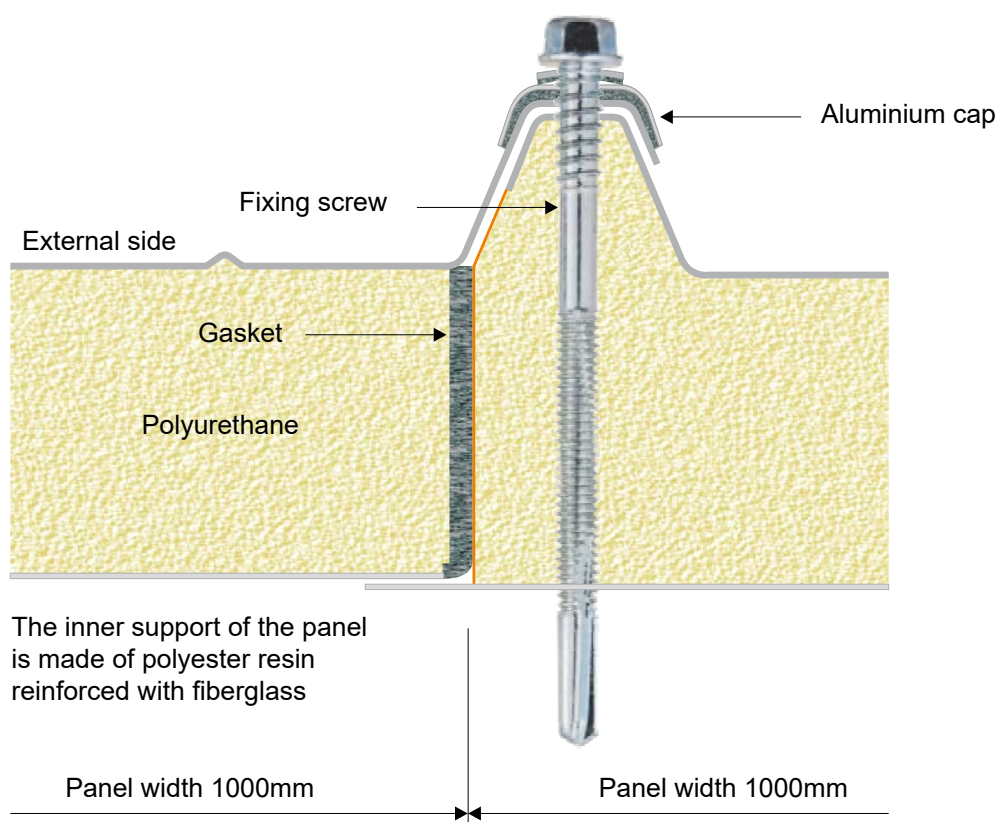
Given in the tables, the values of the maximum allowable openings in the six loading hypotheses with respect to the condition of maximum allowable arrow at the service limit state (for the roof function of sandwich panels, the maximum allowable arrow is $f = \text{opening} / 200$).

The panel subjected to the calculation has a face made of pre-painted galvanized laminated sheet with thickness $t_e = 0.5\text{mm}$, on the outside, and a face made of polyester resin reinforced with fiberglass, $t_i = 0.4\text{mm}$, on the inside

Permissible openings for simple loadings (0.5 steel/0.4 fiber)						
G (mm)	Loadings (daN/m ²)					
	100	120	150	200	250	300
30	1,75	1,65	1,45	1,05	0,85	0,70
40	1,95	1,75	1,55	1,35	1,20	1,00
50	2,10	1,90	1,70	1,45	1,30	1,15
60	2,30	2,05	1,80	1,55	1,40	1,25
80	2,65	2,40	2,15	1,80	1,60	1,45
100	3,05	2,80	2,45	2,10	1,85	1,65
120	3,40	3,15	2,80	2,40	2,10	1,90

Permissible openings for simple loadings (0.5steel/0.4 fiber)						
G (mm)	Loadings (daN/m ²)					
	100	120	150	200	250	300
30	1,95	1,80	1,60	1,15	0,95	0,75
40	2,15	1,95	1,70	1,50	1,30	1,10
50	2,30	2,10	1,85	1,60	1,45	1,25
60	2,55	2,25	2,00	1,70	1,55	1,40
80	3,00	2,65	2,35	2,00	1,75	1,60
100	3,35	3,10	2,70	2,30	2,00	1,80
120	3,75	3,50	3,10	2,65	2,30	2,10

**The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.



STEEL (0.5mm) – FIBER (0.4 mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
30	6,74	1,09	1,27
40	7,14	0,82	0,95
50	7,54	0,65	0,76
60	7,94	0,54	0,63
80	8,74	0,41	0,48
100	9,54	0,33	0,38
120	10,34	0,27	0,32

Thermal transfer coefficients

The values were determined in an authorized laboratory, using the value of lambda thermal conductivity (measured at 10°C) of 0.021 W/mK (0.017 kcal/mhC), according to EN 12667:2002.

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Self-supporting insulated steel panel from Polyurethane, with 5 ribs, designed for plane and tilted roofs about to be sealed. The exterior side of the panel is made from bitumen cardboard in order to facilitate subsequent sealing.

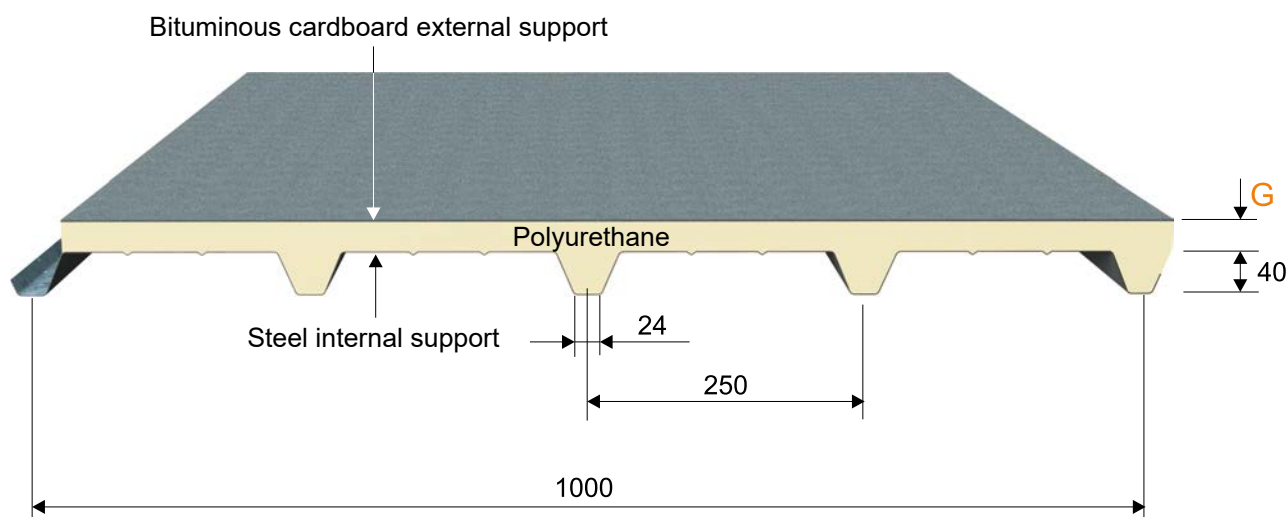


Table of permissible loads**

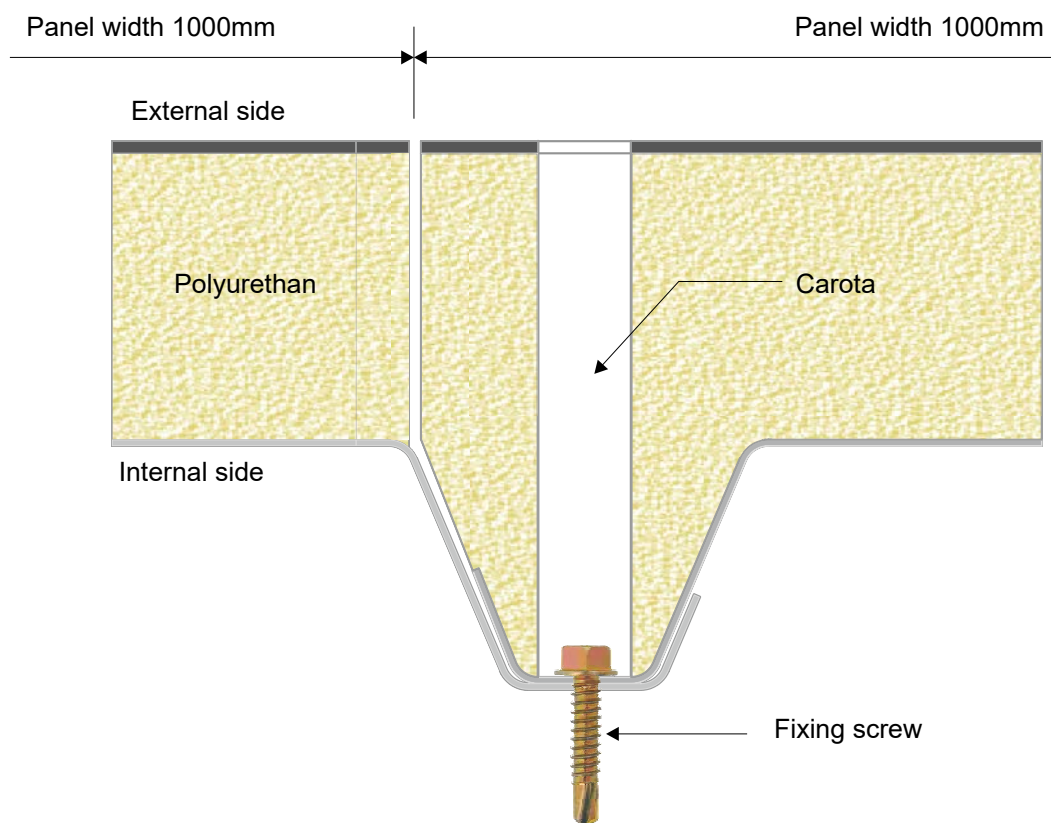
The sizes (l) in meters corresponding to the uniformly distributed (p) overload (daN/m²), were calculated so as to guarantee an $f < l/200$ arrow even considering the steel sheet as a solid section (polyurethane support was not considered) according to European norms. The values indicated for the 0.5 sheet thickness resulted from the laboratory tests.

G (mm)	Loadings (daN/m ²)							
	60	80	100	120	150	200	250	300
0,5	2,08	1,89	1,74	1,65	1,52	1,40	1,29	1,20
0,6	2,22	2,02	1,89	1,76	1,65	1,49	1,40	1,31
0,8	2,49	2,26	2,11	1,98	1,85	1,68	1,56	1,47
1,0	2,71	2,47	2,29	2,16	2,00	1,83	1,70	1,60

G (mm)	Loadings (daN/m ²)							
	60	80	100	120	150	200	250	300
0,5	2,51	2,32	2,16	2,03	1,89	1,70	1,52	1,40
0,6	2,74	2,49	2,32	2,18	2,02	1,89	1,69	1,55
0,8	3,08	2,80	2,60	2,45	2,27	2,07	1,92	1,80
1,0	3,37	3,06	2,83	2,67	2,47	2,24	2,10	1,98

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Roof Panel



BITUMINATED CARTON - STEEL PANEL WEIGHT			THERMAL TRANSFER COEFFICIENT (K)	
G (mm)	M(0,5mm) (kg/m ²)	M(1mm) (kg/m ²)	K	
			(kcal/m ² h °C)	(W/m ² K)
30	6,14	10,93	0,64	0,74
40	6,52	11,31	0,50	0,58
50	6,90	11,69	0,42	0,49
60	7,28	12,07	0,36	0,42
80	8,04	12,83	0,28	0,33
100	8,80	13,52	0,20	0,25
120	9,56	14,22	0,15	0,19

Permissible loadings**

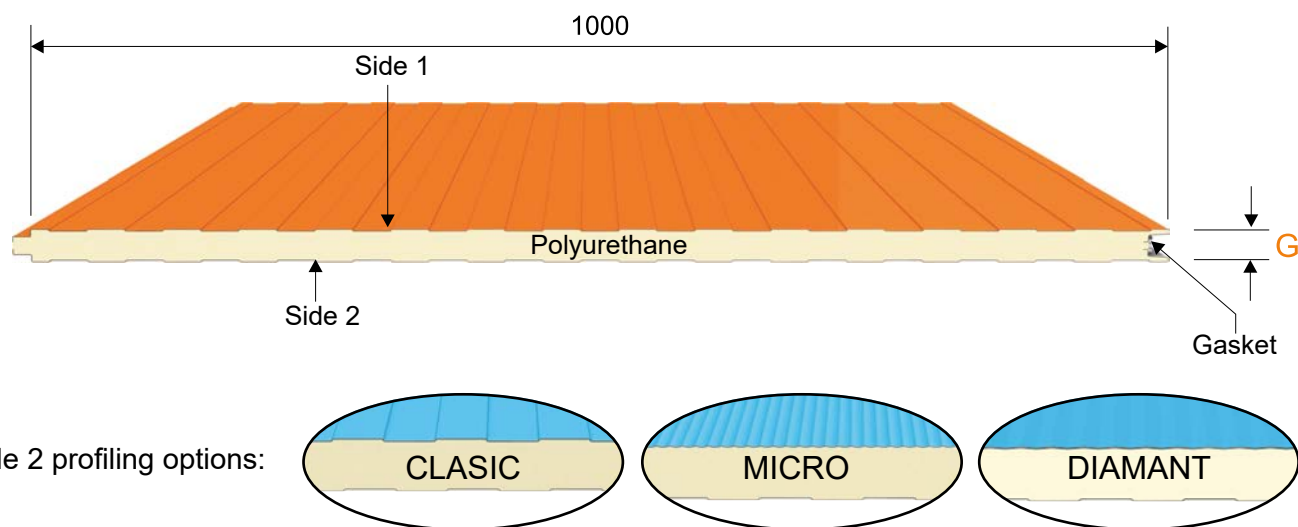
The table contains the free admissible sizes (l) in meters, corresponding to each uniformly distributed load (p), calculated based on experimental data, so as to guarantee a maximum arrow (f) less (no more than) than l/200, considering a safety coefficient (upon breaking stress when bending) greater than or equal to 3.

Thermal transfer coefficients

The values were determined in an authorized laboratory, using the value of lambda thermal conductivity (measured at 10°C) of 0.021 W/mK (0.017 kcal/mhC), according to EN 12667:2002.

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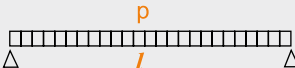
Self-supporting steel insulated panel from polyurethane, designed for industrial and commercial buildings as well as partitioning in general.



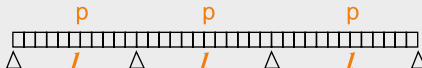
Upon request, there can be produced thermo-insulated panels of polyisocyanurate (PIR) foam, with fire resistance.

Table of permissible loads**

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,4 mm thick steel exterior side, and 0,4 mm thick steel interior side - subjected at uniform distributed loads (p).



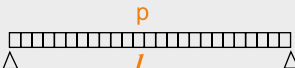
G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
30	2,25	1,90	1,75	1,55	1,35
40	2,80	2,45	2,15	1,95	1,70
50	3,35	2,90	2,60	2,35	2,05
60	3,85	3,35	3,00	2,70	2,40
80	4,75	4,15	3,75	3,40	3,05
100	5,60	4,95	4,45	4,05	3,60



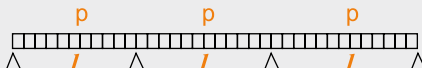
G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
30	2,50	2,15	1,95	1,75	1,50
40	3,15	2,75	2,40	2,20	1,90
50	3,75	3,25	2,90	2,65	2,30
60	4,30	3,75	3,35	3,00	2,70
80	5,30	4,65	4,20	3,80	3,40
100	6,25	5,55	5,00	4,55	4,05

Table of permissible loads**

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,5 mm thick steel exterior side, and 0,5 mm thick steel interior side - subjected at uniform distributed loads (p).

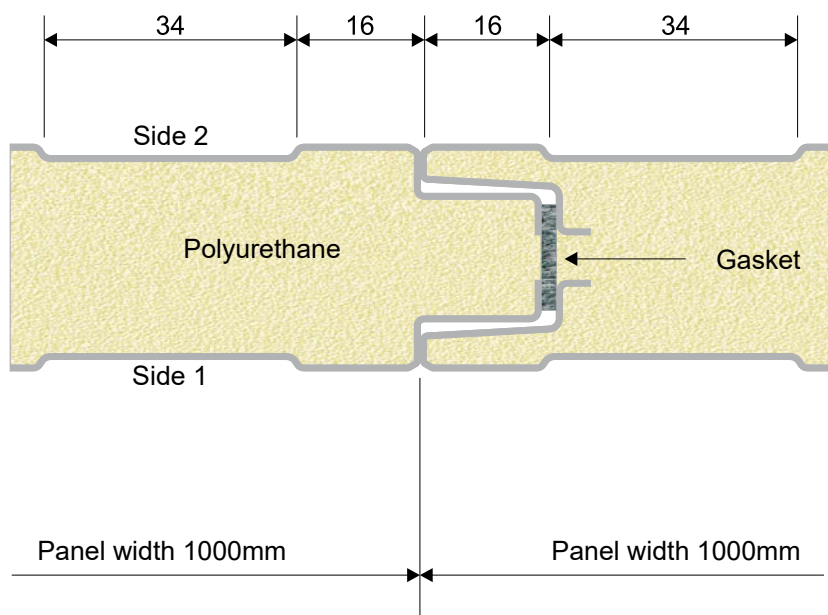


G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
30	2,35	2,00	1,80	1,60	1,40
40	3,00	2,55	2,25	2,05	1,75
50	3,55	3,05	2,70	2,45	2,15
60	4,05	3,55	3,15	2,85	2,50
80	5,05	4,45	3,95	3,60	3,15
100	5,95	5,25	4,70	4,30	3,80



G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
30	2,65	2,25	2,00	1,80	1,55
40	3,35	2,85	2,50	2,30	1,95
50	4,00	3,40	3,00	2,75	2,40
60	4,55	4,00	3,55	3,20	2,80
80	5,65	5,00	4,40	4,05	3,55
100	6,65	5,90	5,25	4,80	4,25

**The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.



STEEL (0,4mm) – STEEL (0,4mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
30	7,86	0,56	0,65
40	8,26	0,43	0,50
50	8,66	0,35	0,41
60	9,06	0,29	0,34
80	9,86	0,22	0,26
100	10,66	0,18	0,21

STEEL (0,5mm) – STEEL (0,5mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
30	9,52	0,56	0,65
40	9,92	0,43	0,50
50	10,32	0,35	0,41
60	10,72	0,29	0,34
80	11,52	0,22	0,26
100	12,32	0,18	0,21

Permissible loadings **

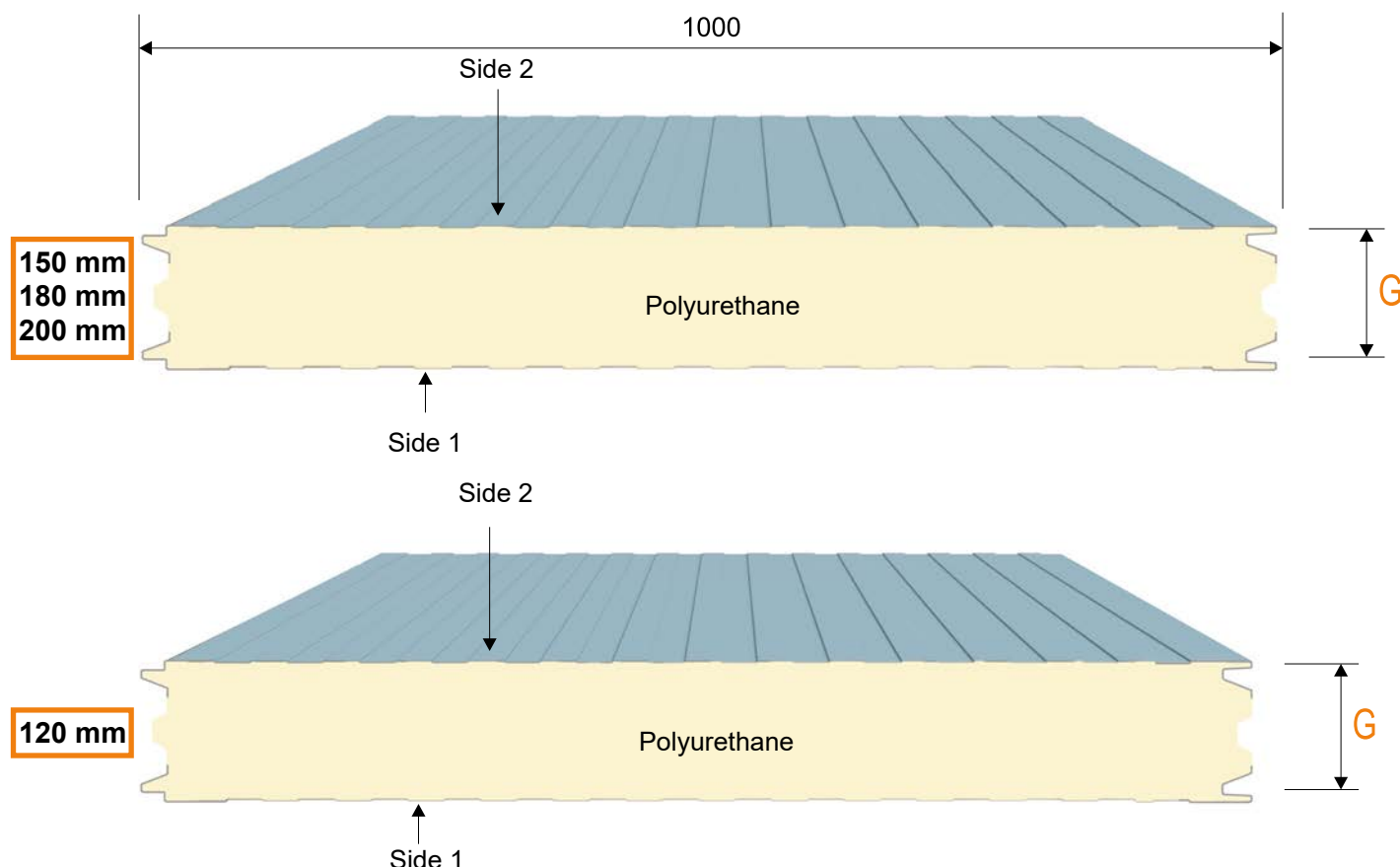
The table contains the free admissible sizes (l) in meters, corresponding to each uniformly distributed load (p), calculated based on experimental data, so as to guarantee a maximum arrow (f) less (no more than) than l/200, considering a safety coefficient (upon breaking stress when bending) greater than or equal to 3.

Thermal transfer coefficients

The values were determined in an authorized laboratory, using the value of lambda thermal conductivity (measured at 10°C) of 0.021 W/mK (0.017 kcal/mhC), according to EN 12667:2002.

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Self-supporting steel insulated panel from polyurethane with **labyrinth joint**, designed for the construction of warehouses and cold storage rooms. The joinery system for this panel ensures excellent performances, substantially contributing to the reduction of thermal losses.



Upon request, there can be produced thermo-insulated panels of polyisocyanurate (PIR) foam, with **fire resistance**

Table of permissible loads**

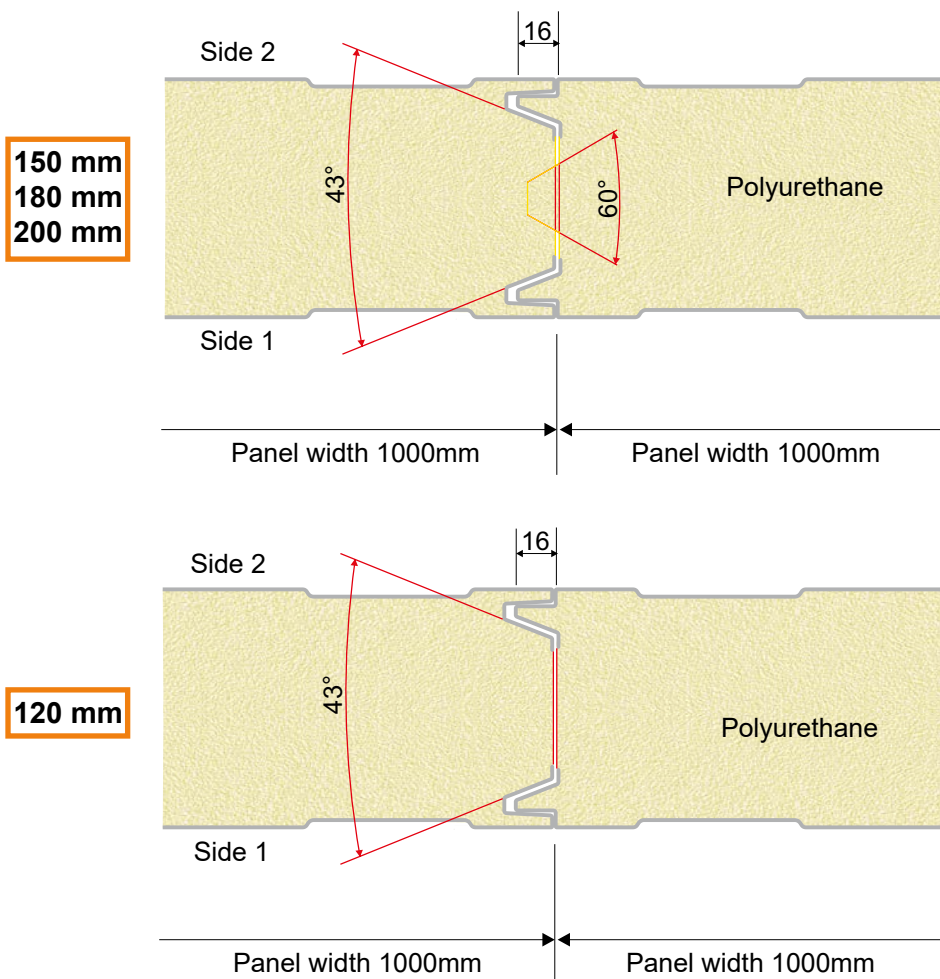
Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,5 mm thick steel exterior side, and 0,5 mm thick steel interior side - subjected at uniform distributed loads (p).

G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
120	6,85	6,00	5,40	4,95	4,40
150	8,05	7,10	6,40	5,85	5,20
180	9,10	8,10	7,35	6,70	6,00
200	9,90	8,75	7,90	7,25	6,50

G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
120	7,90	6,90	6,20	5,70	5,05
150	9,25	8,15	7,35	6,75	6,00
180	10,45	9,30	8,45	7,70	6,90
200	11,40	10,05	9,10	8,35	7,50

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Wall Panel



STEEL(0,5mm) – STEEL (0,5mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
120	13,59	0,15	0,18
150	14,79	0,12	0,14
180	15,99	0,10	0,12
200	16,79	0,09	0,11

Permissible loadings **

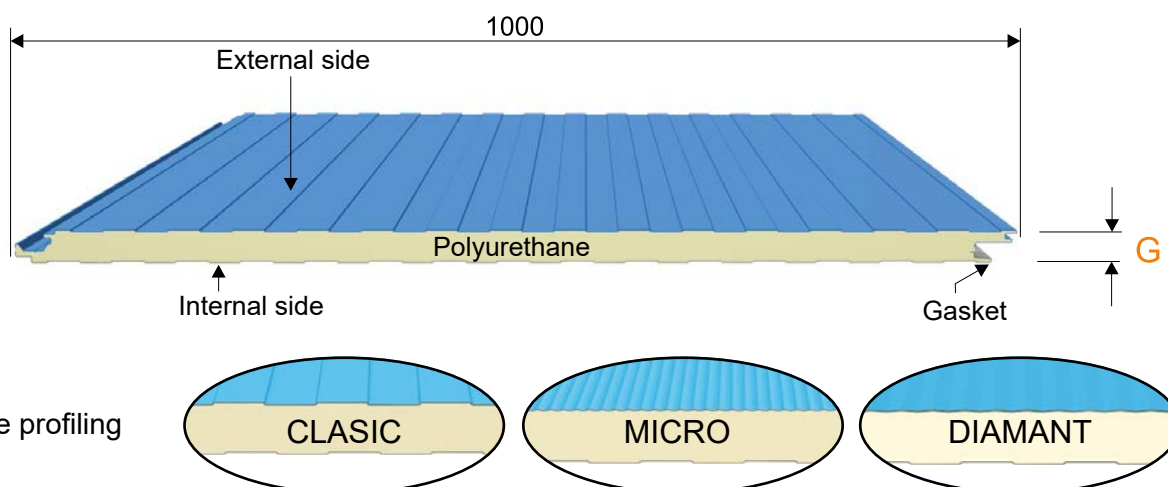
The table contains the free admissible sizes (l) in meters, corresponding to each uniformly distributed load (p), calculated based on experimental data, so as to guarantee a maximum arrow (f) less (no more than) than l/200, considering a safety coefficient (upon breaking stress when bending) greater than or equal to 3.

Thermal transfer coefficients

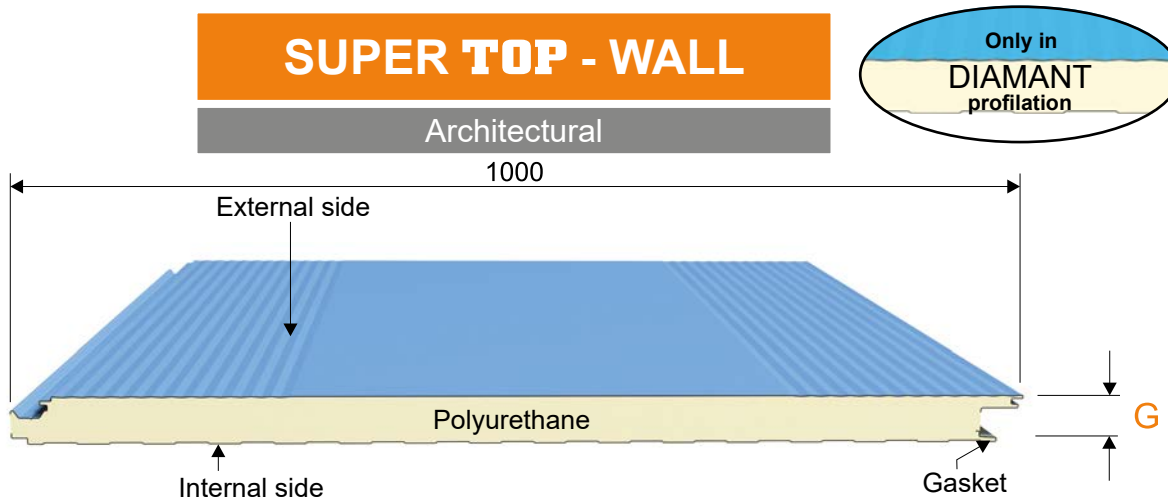
The values were determined in an authorized laboratory, using the value of lambda thermal conductivity (measured at 10°C) of 0.021 W/mK (0.017 kcal/mhC), according to EN 12667:2002.

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Self-supporting steel insulated panel from polyurethane cu with **hidden fixing**, designed for industrial and commercial buildings, which due to their anchorage method provide exquisite aesthetics and reliability. The articulation of this type of panel provides the possibility of both vertical as well as horizontal installation.



Upon request, there can be produced thermo-insulated panels of polyisocyanurate (PIR) foam, with **fire resistance**.



Self-supporting steel insulated panel from polyurethane cu with hidden fixing – architectural model, which due to their anchorage method provide exquisite aesthetics and reliability. The articulation of this type of panel provides the possibility of both vertical as well as horizontal installation.

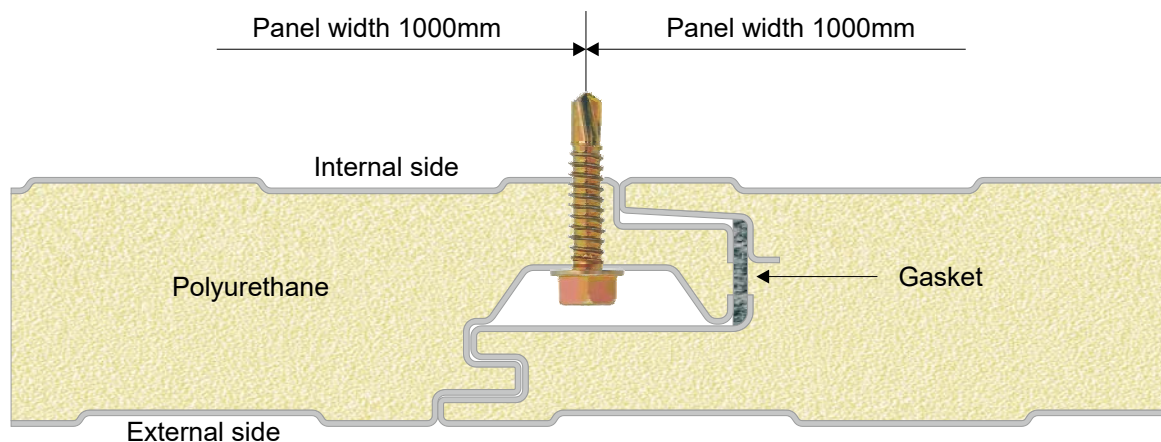
Table of permissible loads – for both panels type **

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,5 mm thick steel exterior side, and 0,4 mm thick steel interior side - subjected at uniform distributed loads (p).

G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
40	2,80	2,45	2,15	1,95	1,70
50	3,45	3,00	2,65	2,40	2,10
60	4,00	3,45	3,05	2,80	2,45
80	4,95	4,30	3,85	3,55	3,10
100	5,85	5,10	4,60	4,15	3,75
120	6,90	6,05	5,45	5,00	4,45

G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
40	3,15	2,75	2,40	2,20	1,90
50	3,85	3,35	2,95	2,70	2,35
60	4,50	3,85	3,40	3,15	2,75
80	5,55	4,80	4,30	4,00	3,45
100	6,55	5,70	5,15	4,65	4,20
120	7,75	6,80	6,10	5,60	5,00

** The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.



STEEL (0,5mm) – STEEL (0,4mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G (mm)	M (kg/m ²)	K	
		(kcal/m ² h °C)	(W/m ² K)
40	8,26	0,43	0,50
50	9,84	0,35	0,41
60	10,24	0,29	0,34
80	11,04	0,22	0,26
100	11,84	0,18	0,21
120	12,64	0,15	0,18

Permissible loadings**

The table contains the free admissible sizes (l) in meters, corresponding to each uniformly distributed load (p), calculated based on experimental data, so as to guarantee a maximum arrow (f) less (no more than) than l/200, considering a safety coefficient (upon breaking stress when bending) greater than or equal to 3.

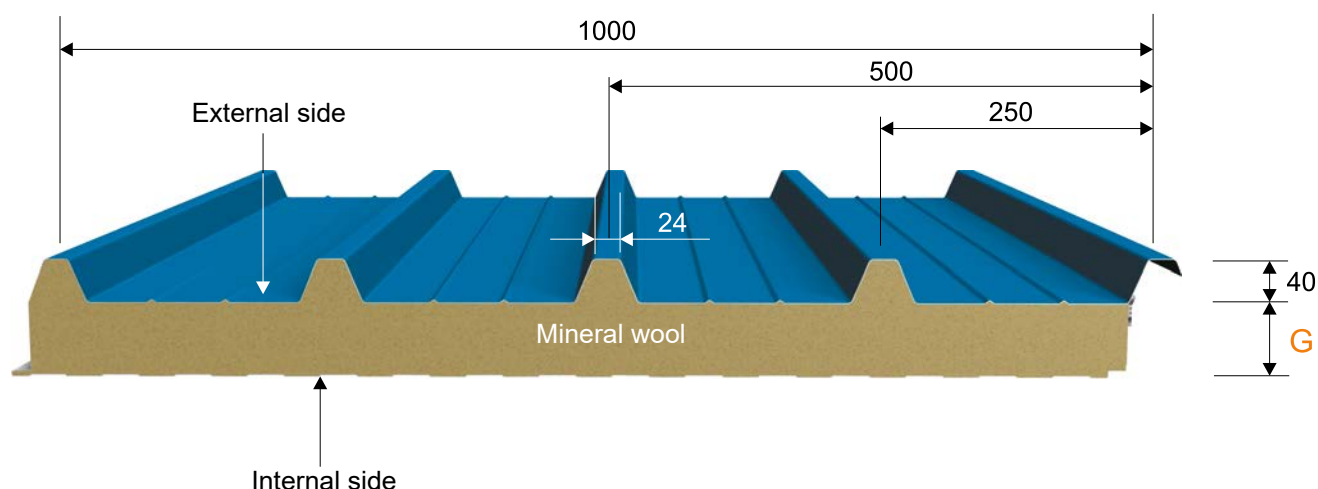
Thermal transfer coefficients

Values were determined in an authorized laboratory, using the value of lambda thermal conductivity (measured at 10°C) of 0.021 W/mK (0.017 kcal/mhC), according to EN 12667:2002.

**The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.

Roof Panel

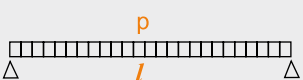
Self-supporting steel insulated panel from mineral wool, equipped with 5 ribs, designed for tilted roofs with a minimum slope of 7%. The use of this type of panel is recommended when a higher fire resistance is required.



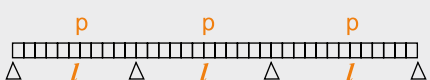
Depending on the thickness of the insulation, the panel **fire resistance** may vary.

Table of permissible loads **

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,5 mm thick steel exterior side, and 0,5 mm thick steel interior side - subjected at uniform distributed loads (p).



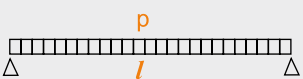
G (mm)	Loadings (daN/m ²)						
	80	100	120	150	200	250	300
50	3,05	2,58	2,24	1,85	1,49	1,22	1,02
60	3,41	2,95	2,57	2,11	1,65	1,35	1,11
80	4,12	3,69	3,23	2,63	1,97	1,61	1,30
100	4,70	4,07	3,40	2,75	2,10	1,70	1,41
120	5,33	4,45	3,73	3,03	2,28	1,84	1,52
150	5,96	4,83	4,06	3,31	2,46	1,98	1,63



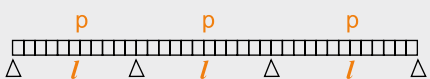
G (mm)	Loadings (daN/m ²)						
	80	100	120	150	200	250	300
50	3,52	2,97	2,60	2,15	1,70	1,40	1,17
60	3,93	3,40	2,97	2,43	1,90	1,55	1,29
80	4,75	4,25	3,70	3,00	2,30	1,85	1,54
100	5,45	4,70	3,95	3,21	2,45	1,98	1,65
120	6,15	5,15	4,30	3,50	2,70	2,15	1,80
150	6,85	5,60	4,65	3,79	2,95	2,32	1,95

Table of permissible loads **

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,6 mm thick steel exterior side, and 0,6 mm thick steel interior side - subjected at uniform distributed loads (p).



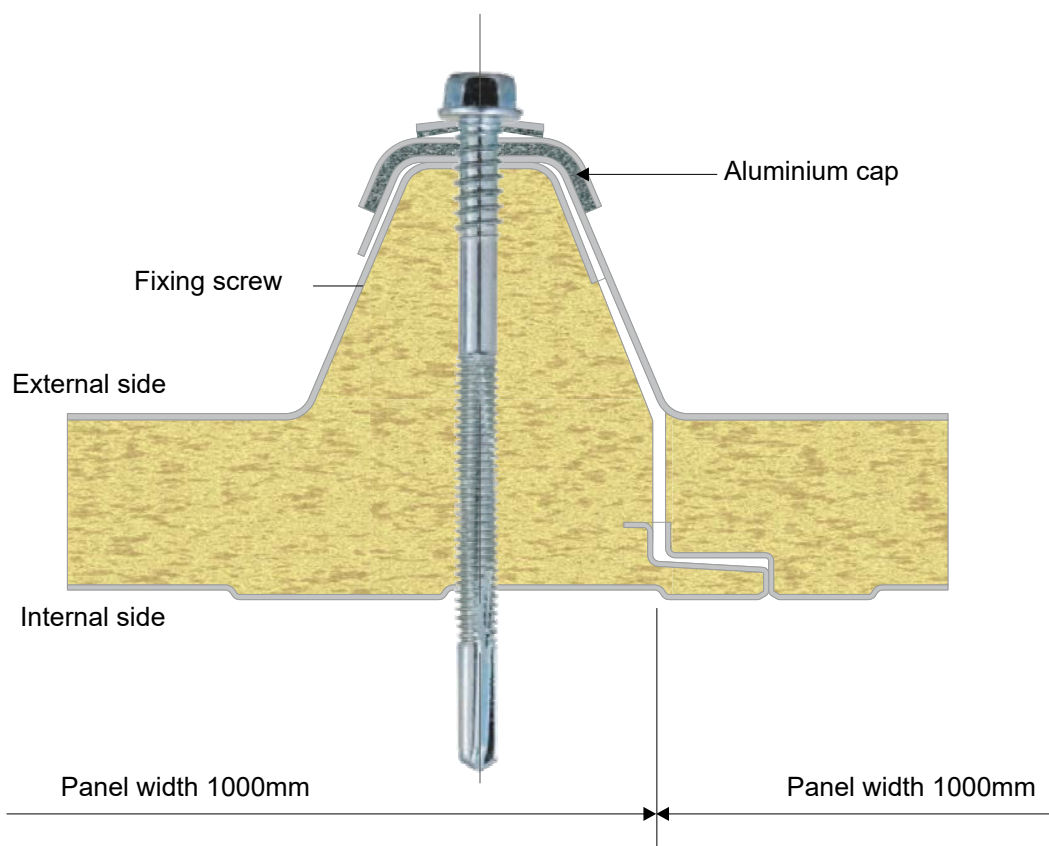
G (mm)	Loadings (daN/m ²)						
	80	100	120	150	200	250	300
50	3,97	3,64	3,22	2,64	2,00	1,65	1,30
60	4,36	4,03	3,65	3,08	2,35	1,93	1,57
80	5,13	4,80	4,50	3,95	3,05	2,48	2,10
100	5,65	5,27	4,95	4,58	3,74	3,03	2,57
120	6,14	5,70	5,38	4,96	4,37	3,58	3,03
150	6,75	6,28	5,92	5,45	4,81	3,95	3,32



G (mm)	Loadings (daN/m ²)						
	80	100	120	150	200	250	300
50	4,55	3,77	3,22	2,64	2,00	1,65	1,30
60	5,02	4,36	3,75	3,08	2,35	1,93	1,57
80	5,95	5,55	4,82	3,95	3,05	2,48	2,10
100	6,05	5,75	5,45	4,82	3,74	3,03	2,57
120	6,11	5,86	5,63	5,27	4,45	3,58	3,03
150	6,70	6,43	6,20	5,80	4,83	3,95	3,32

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Roof Panel



STEEL (0.5 mm) – STEEL (0.5 mm)		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
50	13,50	0,64	0,72
60	14,46	0,56	0,63
80	16,40	0,38	0,44
100	18,50	0,32	0,36
120	20,40	0,26	0,30
150	23,20	0,22	0,25

STEEL (0.6 mm) – STEEL (0.6 mm)		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
50	15,50	0,64	0,72
60	16,43	0,56	0,63
80	18,30	0,38	0,44
100	20,20	0,32	0,36
120	22,30	0,26	0,30
150	25,30	0,22	0,25

Permissible loadings**

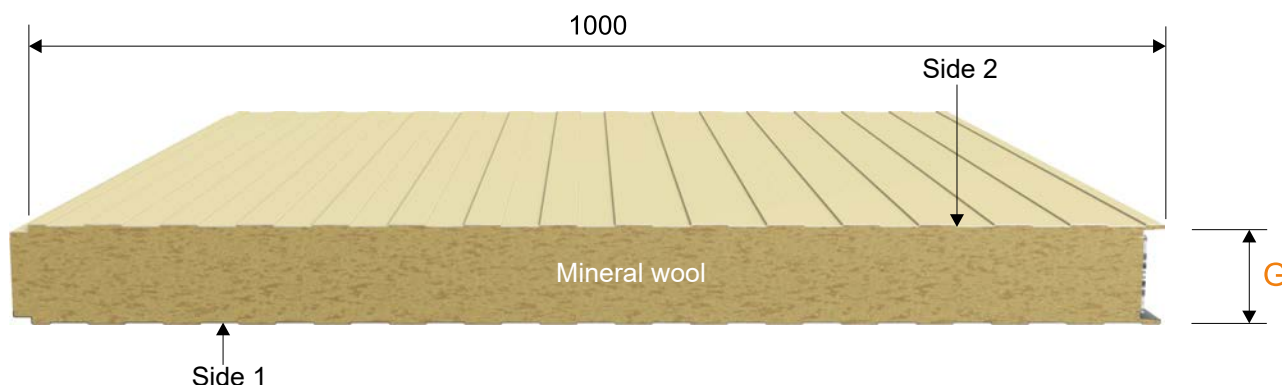
The table contains the free admissible sizes (l) in meters, corresponding to each uniformly distributed load (p), calculated based on experimental data, so as to guarantee a maximum arrow (f) less (no more than) than l/200, considering a safety coefficient (upon breaking stress when bending) greater than or equal to 3.

Thermal transfer coefficients

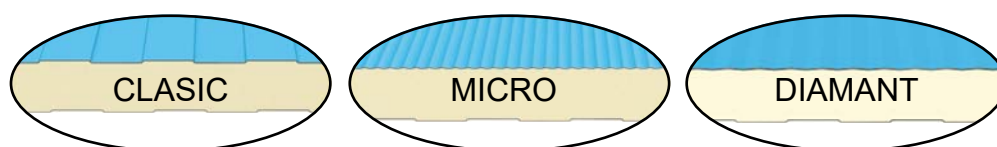
The values were determined in an authorized laboratory, using the thermal conductivity value lambda (measured at 10°C) of 0.041 W/mK for basaltic mineral wool with a horizontal fiber orientation, according to EN 12667:2002.

**The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.

Self-supporting steel insulated panel from mineral wool, designed for industrial and commercial buildings in general – as well as partitioning. The use of this type of panel is recommended when a higher fire resistance is required.



Side 2 profiling options:



Depending on the thickness of the insulation, the panel **fire resistance** may vary.

Table of permissible loads **

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,5 mm thick steel exterior side, and 0,5 mm thick steel interior side - subjected at uniform distributed loads (p).

G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
50	3,20	2,46	1,96	1,64	1,31
60	3,48	2,81	2,35	1,97	1,58
80	4,05	3,51	3,14	2,64	2,11

G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
50	3,58	2,73	2,18	1,82	1,45
60	3,89	3,13	2,62	2,19	1,75
80	4,53	3,93	3,50	2,92	2,35

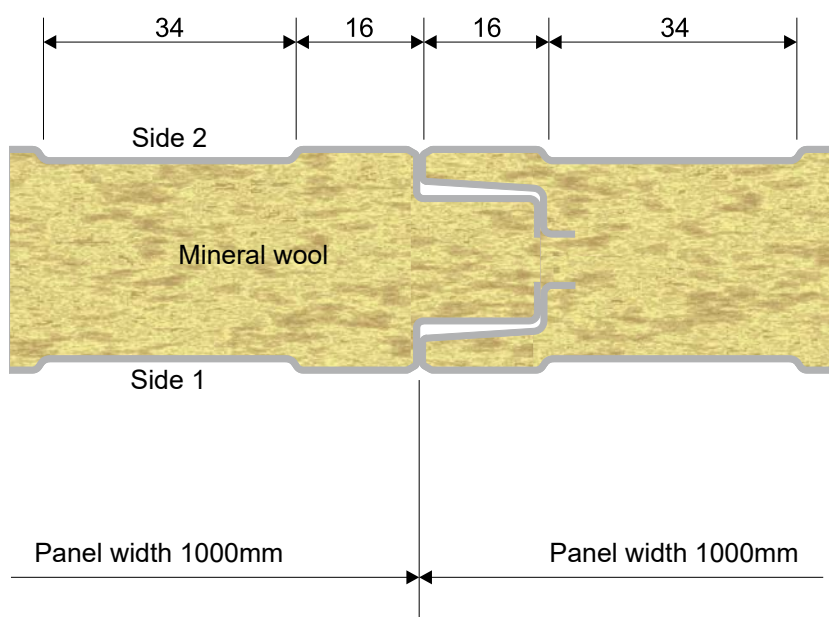
Table of permissible loads **

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,6 mm thick steel exterior side, and 0,6 mm thick steel interior side - subjected at uniform distributed loads (p).

G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
50	3,75	2,84	2,31	1,94	1,57
60	4,17	3,35	2,72	2,32	1,87
80	5,00	4,38	3,65	3,08	2,48

G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
50	3,97	3,33	2,67	2,24	1,81
60	4,41	3,72	3,09	2,67	2,17
80	5,30	4,51	3,91	3,54	2,88

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STEEL(0,5mm) - STEEL (0,5mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
50	12,80	0,67	0,75
60	13,70	0,59	0,66
80	15,50	0,44	0,50

SEEL(0,6mm) - STEEL (0,6mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
50	14,50	0,67	0,75
60	15,40	0,59	0,66
80	17,20	0,44	0,50

Permissible loadings**

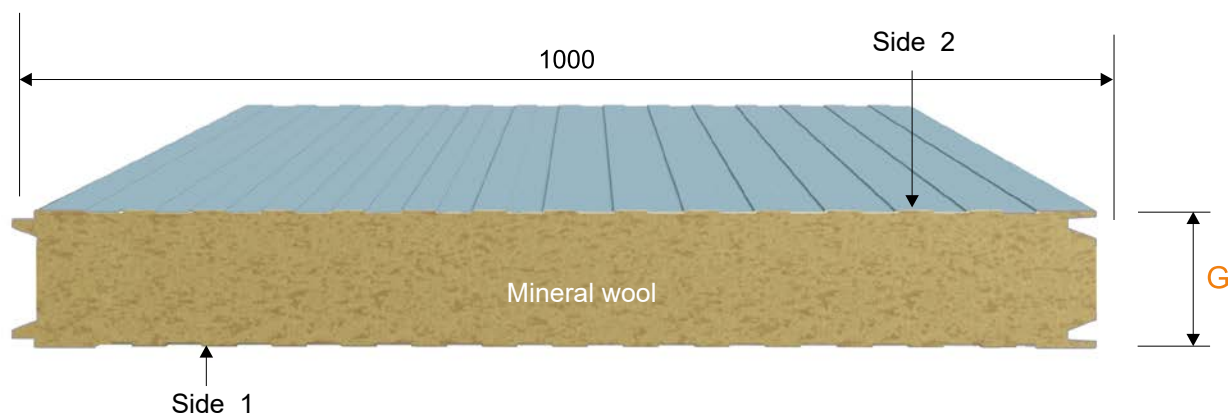
The table contains the free admissible sizes (l) in meters, corresponding to each uniformly distributed load (p), calculated based on experimental data, so as to guarantee a maximum arrow (f) less (no more than) than l/200, considering a safety coefficient (upon breaking stress when bending) greater than or equal to 3.

Thermal transfer coefficients

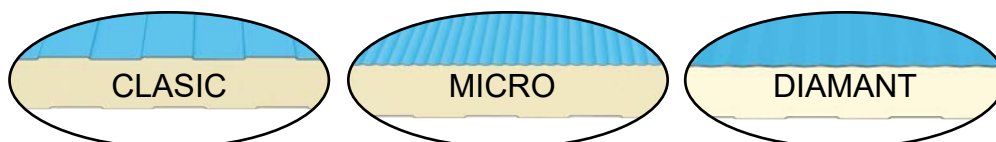
The values were determined in an authorized laboratory, using the thermal conductivity value lambda (measured at 10°C) of 0.041 W/mK for basaltic mineral wool with a horizontal fiber orientation, according to EN 12667:2002.

**The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.

Self-supporting steel insulated panel from mineral wool with **labyrinth joint** designed for industrial and commercial buildings in general – as well as partitioning. The use of this type of panel is recommended when a higher fire resistance is required.



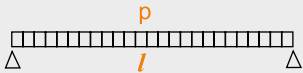
Side 2 profiling options:



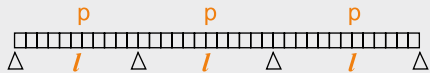
Depending on the thickness of the insulation, the panel **fire resistance** may vary.

Table of permissible loads **

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,5 mm thick steel exterior side, and 0,5 mm thick steel interior side - subjected at uniform distributed loads (p).



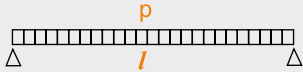
G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
100	4,50	3,93	3,51	3,21	2,64
120	4,97	4,30	3,85	3,51	3,14
150	5,44	4,67	4,19	3,81	3,40
200	5,91	5,07	4,57	4,11	3,66



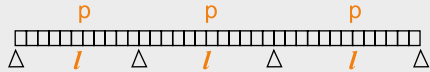
G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
100	5,07	4,38	3,94	3,59	2,93
120	5,55	4,81	4,30	3,93	3,51
150	6,03	5,24	4,66	4,27	4,10
200	6,51	5,67	5,02	4,61	4,69

Table of permissible loads **

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,6 mm thick steel exterior side, and 0,6 mm thick steel interior side - subjected at uniform distributed loads (p).

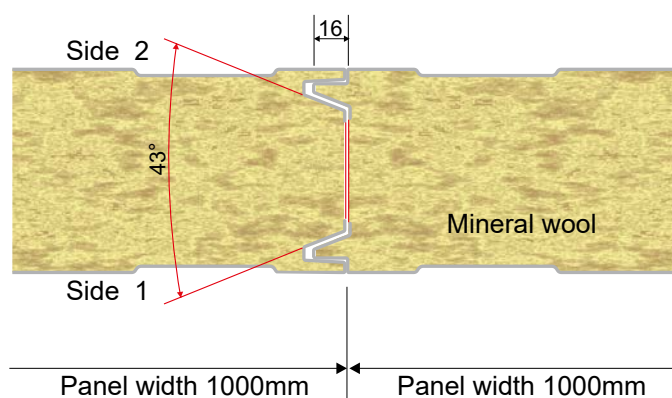


G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
100	5,64	4,60	4,38	3,82	3,09
120	6,17	5,34	5,58	4,00	3,40
150	6,88	5,96	5,15	4,66	3,77
200	7,18	6,26	5,45	4,96	4,02



G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
100	6,00	5,38	4,60	3,99	3,56
120	6,40	5,65	4,68	4,20	3,92
150	7,00	6,08	5,34	4,87	4,34
200	7,3	6,38	5,64	5,12	4,54

** The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.



STEEL(0,5mm) - STEEL (0,5mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
100	17,53	0,35	0,40
120	19,73	0,30	0,33
150	22,93	0,24	0,27
200	27,63	0,18	0,21

SEEL(0,6mm) - STEEL (0,6mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
100	19,56	0,35	0,40
120	21,96	0,30	0,33
150	24,96	0,24	0,27
200	31,66	0,18	0,21

Permissible loadings**

The table contains the free admissible sizes (l) in meters, corresponding to each uniformly distributed load (p), calculated based on experimental data, so as to guarantee a maximum arrow (f) less (no more than) than l/200, considering a safety coefficient (upon breaking stress when bending) greater than or equal to 3.

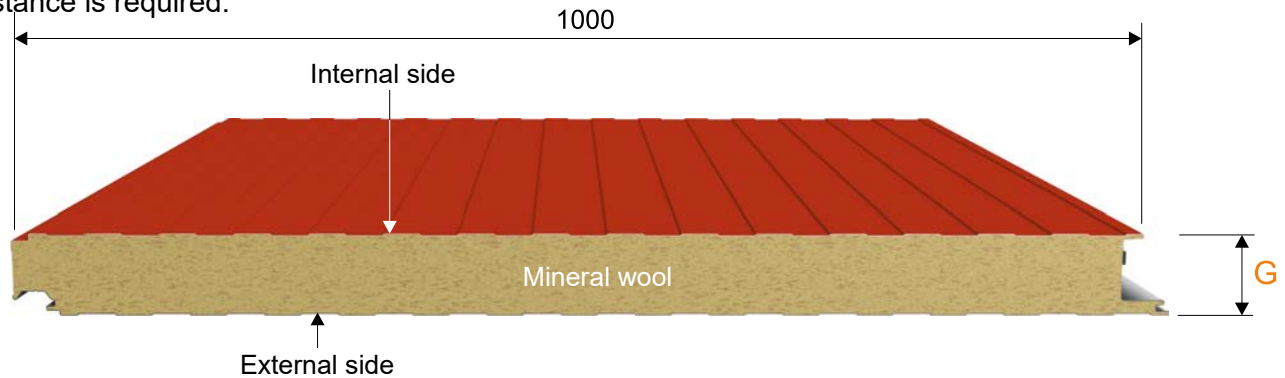
Thermal transfer coefficients

The values were determined in an authorized laboratory, using the thermal conductivity value lambda (measured at 10°C) of 0.041 W/mK for basaltic mineral wool with a horizontal fiber orientation, according to EN 12667:2002.

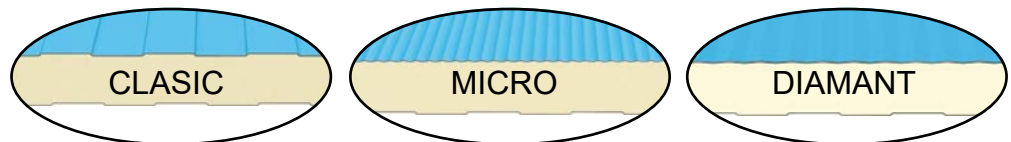
**The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.

Wall Panel - Hidden fixing

Self-supporting steel insulated panel from mineral wool with **hidden fixing** designed for industrial and commercial buildings in general – as well as partitioning - which due to their anchorage method provide exquisite aesthetics and reliability. The articulation of this type of panel provides the possibility of both vertical as well as horizontal installation. The use of this type of panel is recommended when a higher fire resistance is required.



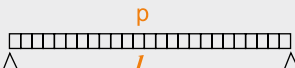
External side profiling options:



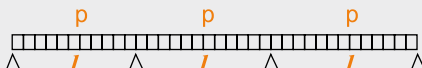
Depending on the thickness of the insulation, the panel **fire resistance** may vary.

Table of permissible loads **

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,5 mm thick steel exterior side, and 0,5 mm thick steel interior side - subjected at uniform distributed loads (p).



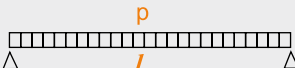
G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
50	3,20	2,46	1,96	1,64	1,31
60	3,48	2,81	2,35	1,97	1,58
80	4,05	3,51	3,14	2,64	2,11
100	4,50	3,93	3,51	3,21	2,64
120	4,97	4,30	3,85	3,51	3,14



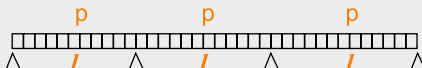
G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
50	3,58	2,73	2,18	1,82	1,45
60	3,89	3,13	2,62	2,19	1,75
80	4,53	3,93	3,50	2,92	2,35
100	5,07	4,38	3,94	3,59	2,93
120	5,55	4,81	4,30	3,93	3,51

Table of permissible loads **

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,6 mm thick steel exterior side, and 0,6 mm thick steel interior side - subjected at uniform distributed loads (p).

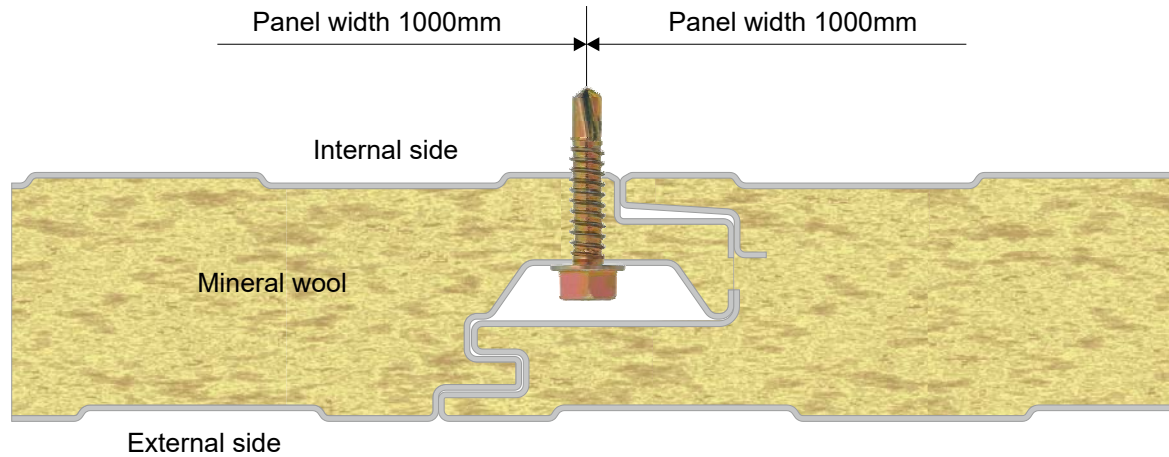


G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
50	3,75	2,84	2,31	1,94	1,57
60	4,17	3,35	2,76	2,32	1,87
80	5,00	4,38	3,65	3,08	2,48
100	5,64	4,60	4,38	3,82	3,09
120	6,17	5,34	4,58	4,00	3,40



G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
50	3,97	3,33	2,67	2,24	1,81
60	4,41	3,72	3,09	2,67	2,17
80	5,30	4,51	3,91	3,54	2,88
100	6,00	5,38	4,60	3,99	3,56
120	6,40	5,65	4,68	4,20	3,92

** The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.



STEEL(0,5mm) - STEEL (0,5mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
50	13.67	0.67	0.75
60	13.70	0.59	0.66
80	15.50	0.44	0.50
100	17.30	0.35	0.40
120	19.50	0.30	0.33

SEEL(0,6mm) - STEEL (0,6mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G	M	K	
(mm)	(kg/m ²)	(kcal/m ² h °C)	(W/m ² K)
50	15.41	0.67	0,75
60	15.40	0.59	0,66
80	17.20	0.44	0,50
100	19.00	0,35	0,40
120	21.40	0.30	0,33

Permissible loadings**

The table contains the free admissible sizes (l) in meters, corresponding to each uniformly distributed load (p), calculated based on experimental data, so as to guarantee a maximum arrow (f) less (no more than) than l/200, considering a safety coefficient (upon breaking stress when bending) greater than or equal to 3.

Thermal transfer coefficients

The values were determined in an authorized laboratory, using the thermal conductivity value lambda (measured at 10°C) of 0.041 W/mK for basaltic mineral wool with a horizontal fiber orientation, according to EN 12667:2002.

**The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.

Wall Panel

Self-supporting steel insulated panel from mineral wool, designed for industrial and commercial buildings in general – as well as partitioning. The use of this type of panel is recommended when a higher sound protection & fire resistance is required.

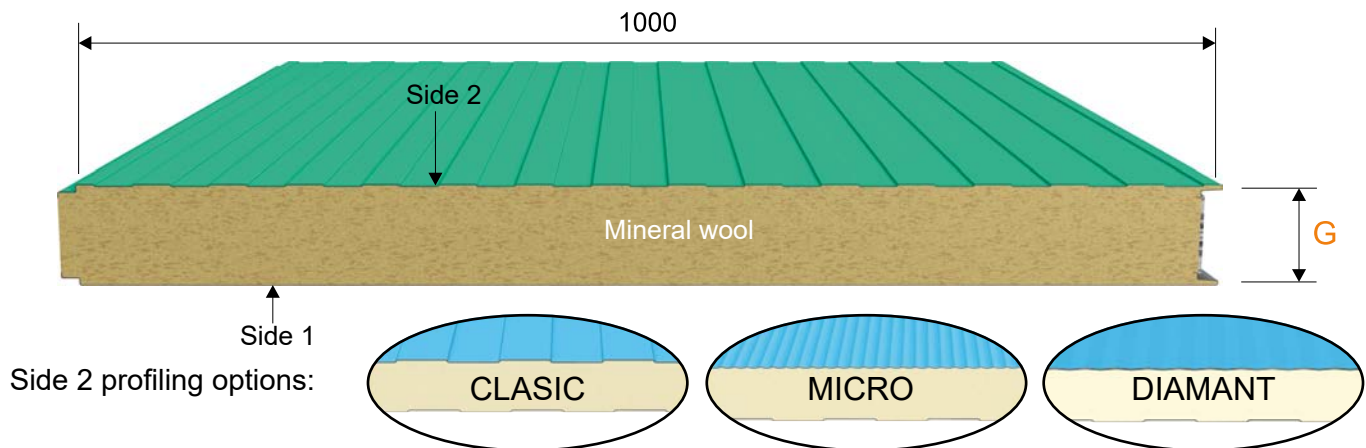
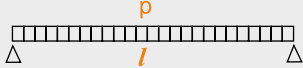
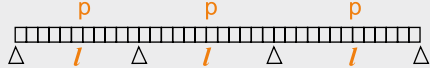


Table of permissible loads **

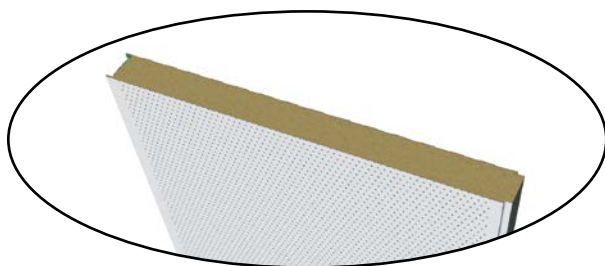
Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,6 mm thick steel exterior side, and 0,6 mm thick steel interior side - subjected at uniform distributed loads (p).



G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
50	2,07	1,93	1,76	1,64	1,43
60	2,28	2,08	1,91	1,76	1,53
80	2,70	2,39	2,20	2,00	1,73
100	2,93	2,66	2,45	2,25	1,91
120	4,60	3,85	3,55	3,15	2,55
150	4,80	3,90	3,73	3,30	2,68



G (mm)	Loadings (daN/m ²)				
	60	80	100	120	150
50	2,34	2,20	2,03	1,85	1,66
60	2,59	2,39	2,20	2,01	1,77
80	3,10	2,78	2,55	2,33	2,00
100	3,48	3,08	2,84	2,57	2,20
120	5,10	4,60	3,90	3,60	3,31
150	5,20	4,80	4,00	3,74	3,49



SEEL(0,6mm) - STEEL (0,6mm) PANEL WEIGHT		THERMAL TRANSFER COEFFICIENT (K)	
G (mm)	M (kg/m ²)	K (kcal/m ² h °C)	K (W/m ² K)
50	12,90	0,65	0,75
60	13,80	0,57	0,63
80	15,50	0,42	0,49
100	17,40	0,34	0,40
120	19,72	0,30	0,33
150	22,80	0,23	0,27

Permissible loadings**

The table contains the free admissible sizes (l) in meters, corresponding to each uniformly distributed load (p), calculated based on experimental data, so as to guarantee a maximum arrow (f) less (no more than) than $l/200$, considering a safety coefficient (upon breaking stress when bending) greater than or equal to 3.

Thermal transfer coefficients

The values were determined in an authorized laboratory, using the thermal conductivity value lambda (measured at 10°C) of 0.041 W/mK for basaltic mineral wool with a horizontal fiber orientation, according to EN 12667:2002.

**The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.

Roof Panel

Self-supporting steel insulated panel from mineral wool, equipped with 5 ribs, designed for tilted roofs with a minimum slope of 7%. The use of this type of panel is recommended when a higher sound protection & fire resistance is required.

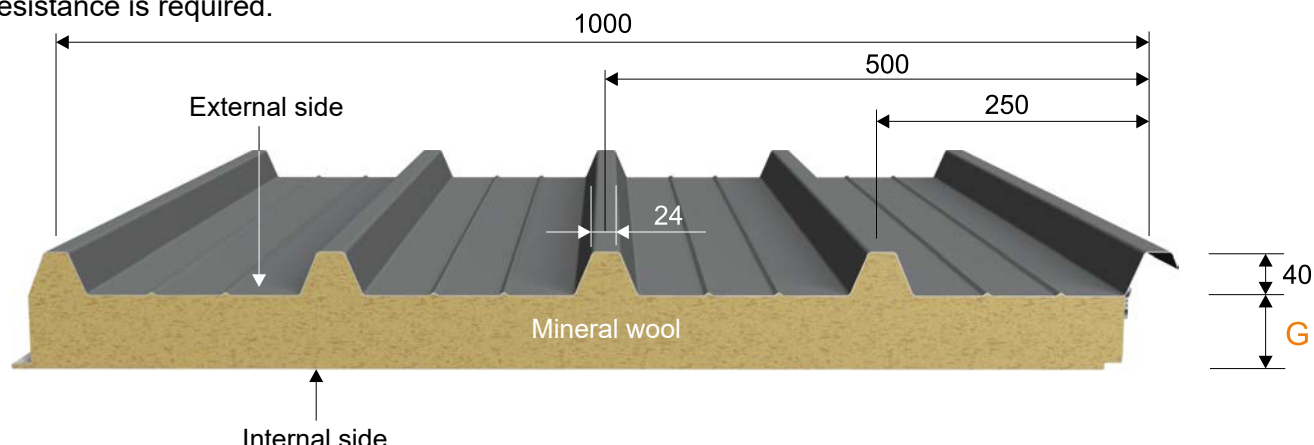
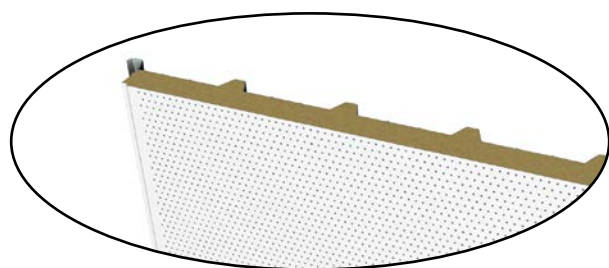


Table of permissible loads**

Maximum values guaranteed for the distances (l), between two supports for a panel with a 0,6 mm thick steel exterior side, and 0,6 mm thick steel interior side - subjected at uniform distributed loads (p).

		Loadings (daN/m ²)						
		80	100	120	150	200	250	300
G (mm)								
50		2,40	2,35	2,25	1,90	1,65	1,35	1,01
60		2,76	2,60	2,46	2,16	1,86	1,60	1,31
80		3,50	3,10	2,90	2,70	2,30	2,10	1,91
100		3,80	3,65	3,45	3,05	2,75	2,27	2,07
120		3,95	3,90	3,65	3,20	2,90	2,33	2,13
150		4,04	4,00	3,80	3,25	3,05	2,40	2,20

		Loadings (daN/m ²)						
		80	100	120	150	200	250	300
G (mm)								
50		3,25	3,15	3,05	2,60	1,95	1,65	1,30
60		3,46	3,35	3,25	2,90	2,35	1,90	1,60
80		3,90	3,75	3,65	3,48	3,15	2,34	2,13
100		4,35	4,05	3,85	3,75	3,45	2,54	2,31
120		4,70	4,20	4,10	3,85	3,60	2,80	2,50
150		5,00	4,35	4,20	3,98	3,80	3,00	2,70



Permissible loadings**

The table contains the free admissible sizes (l) in meters, corresponding to each uniformly distributed load (p), calculated based on experimental data, so as to guarantee a maximum arrow (f) less (no more than) than $l/200$, considering a safety coefficient (upon breaking stress when bending) greater than or equal to 3.

Thermal transfer coefficients

The values were determined in an authorized laboratory, using the thermal conductivity value λ (measured at 10°C) of 0.041 W/mK for basaltic mineral wool with a horizontal fiber orientation, according to EN 12667:2002.

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PIR Insulation

Fire reaction class D

Insulating plate with a coefficient of type L joint

*Double insulation compared to mineral wool or expanded polystyrene.

0,022
W/mK

- ✓ Thermal performance
- ✓ Quality over time
- ✓ Low weight
- ✓ Eco friendly
- ✓ Safety



FG - FG

Thermotop FG - FG is a high-performance PIR core insulating plate with two-layer FG film coating - mineral support with reinforced glass fiber inserts acting as armature.

FG/FG is part of the range of Thermotop insulating plates for industrial projects.

When using Thermotop for your projects, you can trust that you have chosen the best solution.

- High Efficiency Rigid Foam Insulation Plates with λD , of 0.022 W/mK
- Thermotop FG is approved and applied in combination with mechanically fixed and / or mechanically balanced monolayer and multilayer roof systems
- Product without CFK / HCFK expanding agents and with low-emission foil coating
- Resistance to compression ≥ 125 KPa.

FG - FG is designed to provide a high level of thermal insulation, providing the optimal solution for new construction and renovation. Whether you are building or upgrading, consider the energy efficiency of your home. You can have many benefits, including low energy costs and better living conditions.

BV - BV

Thermotop BV - BV is a high performance PIR core insulating plate with a two-layer BV film coating – a membrane that acts as vapor barrier.

The outer walls are the areas with the most significant share of the total heat loss for a building. The most important application of Thermotop BV - BV is: thermal insulation of exterior walls by mechanical and / or adhesive grip.

***Thermotop BV - BV** is suitable for traditional insulation systems with mesh and plaster.

- High efficiency rigid foam insulating plates with λD , of 0.022 W/mK
- Product without CFK / HCFK expanding agents and with low-emission foil coating
- Suitable for new construction and renovation projects
- Fire reaction class D

The possibility to be produced with an L-type joint that ensures the continuity of the thermal insulation and leads to the avoidance of the thermal bridge phenomenon.

AL - AL

Topanel Thermotop AL - AL is a PIR core insulating plate, covered with two sides of gas-tight aluminum foil with a thickness of approximately 50 μm , sealed, used for efficient thermal solutions of industrial, commercial and residential buildings.

Thermotop AL - AL is not used with adhesive, only mechanical fastening.

Resistance to compression ≥ 175 Kpa*.

The main applications for **Thermotop AL - AL** are:

- Insulation to provide a thermal barrier to roofs
- Isolation of walls if required to create a thermal barrier and vapor barrier
- Isolation of floors where radiant surfaces are required
- Thermal insulating core between the exterior wall masonry to improve thermal insulation of buildings, fire resistance and moisture reduction.

*Valid with density ≥ 36 kg/m³

The complete insulation solution

The complete Topanel poly-isocyanuric foam insulation (PIR) range offers technically and economically advanced solutions for the roof, wall, curtain wall and floor insulation, with a certified thermal conductivity of 0.022 W/mK



High performance PIR insulation

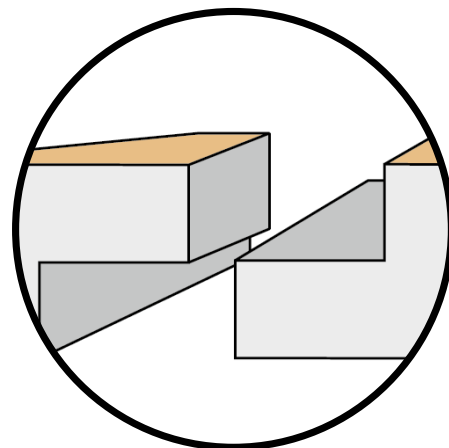
THERMOTOP is high-efficiency poly-isocyanuric foam (PIR) insulation with a certified thermal conductivity of 0.022 W/mk

THERMOTOP ADVANTAGES

Compared against the traditional thermally insulating materials:

- avoid the heat bridge phenomenon due to the L type joint;
- maintain the strength and thermal technical parameters for several decades;
- low thickness of the plates from the point of view of the thermal resistance provided compared against other insulating materials;
- it allows the walls to breathe for FG-FG and BV-BV coatings
- high compression resistance ≥ 125 KPa;
- AL – AL high compression resistance ≥ 175 KPa*;
- low weight (under 32 kg/m³);
- the best thermal conductivity 0,022 W/mK.

4-sided L-type joint



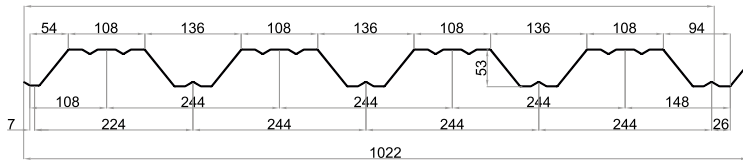
Material	Thermal conductivity (W/mK)
 THERMOTOP® insulation system	0,022
Extruded polystyrene	0,035
Mineral wool	0,041
Expanded polystyrene	0,042
Brick	0,560

Standard dimensions	mm
Width x length	600 x 1200
Thickness	30 - 40 - 50 - 60 - 80 - 100 - 120 - 150

Special sizes 600x600 mm and 1200x1200 mm

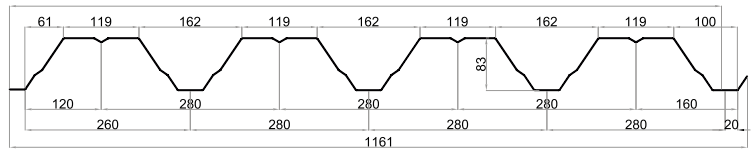
TOP 55/975*

Useful Width - 975 mm



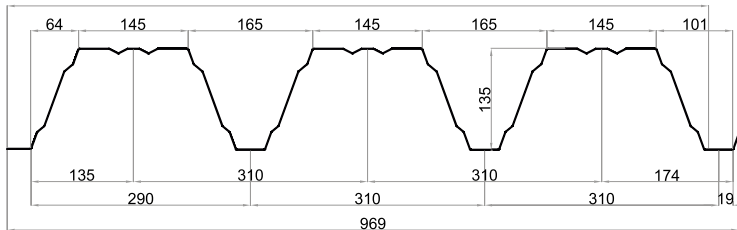
TOP 83/1120*

Useful Width - 1120 mm



TOP 135/930*

Useful Width - 930 mm



TOP 153/840*

Useful Width - 840 mm

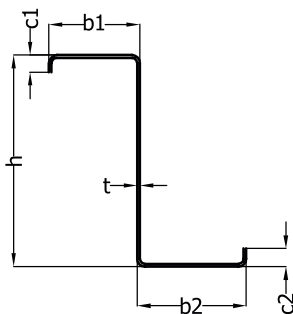


TOP STEEL

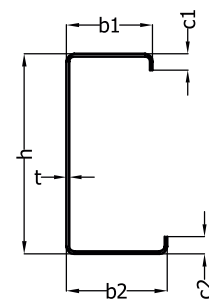
Zinc Profiles

Material Quality: S350GD + Z275. At demand, the profiles can be executed from other material types.

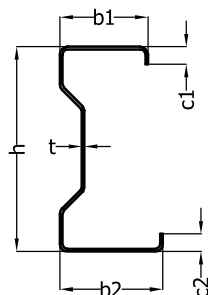
Zinc profile type Z



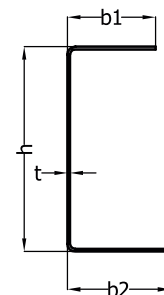
Zinc profile type C



Zinc profile type Σ

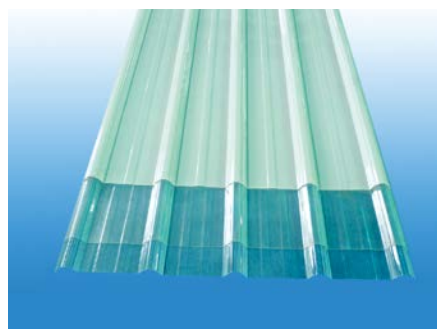


Zinc profile type U



Alveolar polycarbonate luminary panel

Alveolar polycarbonate luminary panel folded in the shape of TOP ROOF thermo-insulating panels, with UV outer protection, ensuring a good ratio between lighting and thermal transfer.



PANEL SECTION

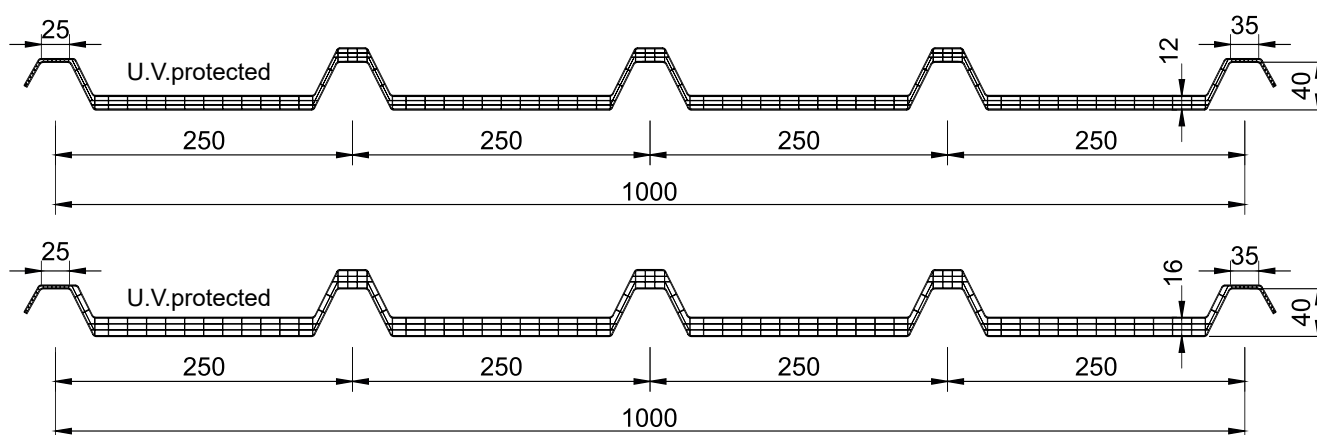
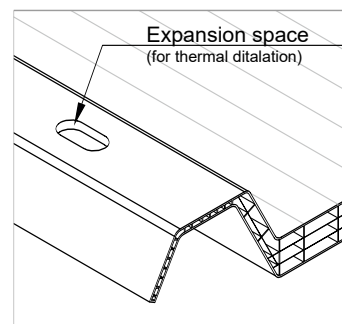
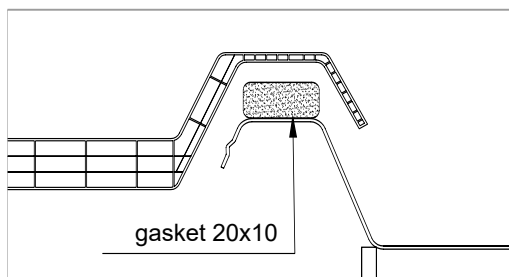
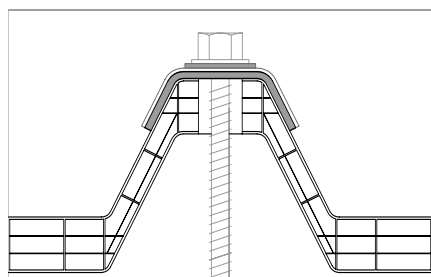


Table of permissible loadings**

Maximum values guaranteed for the distances (l), between two supports for a luminary panel, from alveolar polycarbonate, installed between two steel exterior side panels.

G (mm)	Loadings (daN/m ²)						
	70	80	100	120	150	180	200
12	2,80	2,60	2,40	2,20	2,00	1,80	1,60

FIXING WITH CAP



**The company reserves the right to make the necessary modifications or improvements to its products, at any time, without being subject to prior notice.

TOP EVAC

Smoke Evacuators

The systems are designed for hall and industrial building roofs, according to European fire safety norms. For any industrially designed building, the smoke and heat evacuators (E.F.C.) shall mandatory cover a certain area from the building area.



***Trade name**

The trade name represents only the trade name of the product, respectively the name of the model under which it is found on the market and does not indicate technical details of manufacture and / or does not oblige the manufacturer in any way to comply with quotas other than those expressed in the technical information.

The data and technical characteristics contained in this catalog are informative. Topanel produces a wide range of thermal insulation panels with specific parameters depending on the raw materials used and / or the requests of the beneficiaries.

The general conditions of sale are available on the TOPANEL website:
<http://www.topanel.ro/documentatie.html>

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TOPANEL[®]

INSULATED PANELS

Export:

Rep. of Moldavia & Ukraine:

Sergiu Avornicita; Tel: +373 606 92 277
E-mail: topanelmoldova@topanel.ro

Serbia, Croatia, Bosnia&Herzegovina, Montenegro:

Dunja Duranovic; Tel: +40 786581455
E-mail: dunja.duranovic@topanel.ro

Duška Filipović; Tel: +40 729056739
E-mail: dunja.filipovic@topanel.ro
E-mail: topanelserbia@topanel.ro

Bulgaria:

Asen Milchev; Tel: +359 877537081
Email: topanelbulgaria@topanel.ro

Evgeni Banchev; Tel: +40 0786366699
E-mail: evgeni.banchev@topanel.ro

Stoyan Georgiev; Tel: +359 876828020
E-mail: stoyan.georgiev@topanel.ro

Hungary; Slovakia; Poland:

Jozef Chovan; Tel: +40 0786366698
E-mail: topanelhungary@topanel.ro

Hambalko Krisztian; Tel: +40 722360636
E-mail: christian.hambalko@topanel.ro

Contact:

Bucharest

Baneasa Business & Technology Park,
Bucharest, 1-st sector, Soseaua Bucuresti –
Ploiesti, no 42-44, buiding A, wing A2, 4-th floor

Tel: +40 213233196
E-mail: office@topanel.ro

Râmnicu Vâlcea

No 63, Uzinei Street, Valcea County

Tel: +40 250773377
E-mail: office.valcea@topanel.ro

