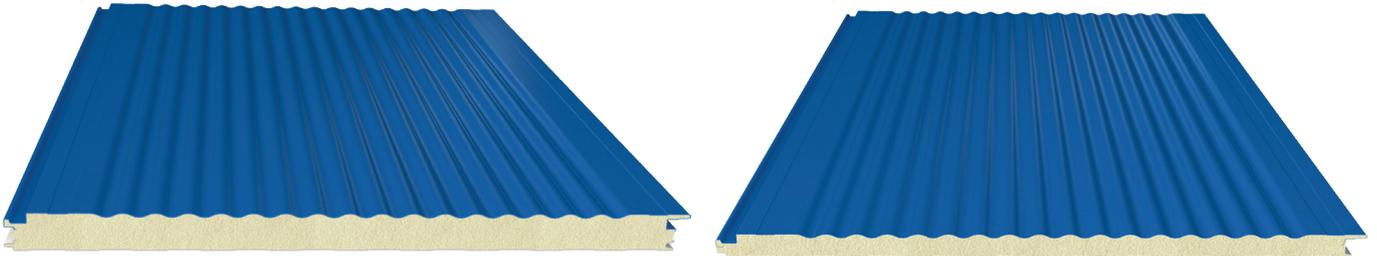


W Sinus Wall Panel



Product Description

The wall panels are suitable for use on walls due to the system that conceals joint elements. The ability to use them both laterally and vertically provides assembly flexibility and good solutions for designers. The sinus form provides an aesthetic appearance for walls.

Production Location

Balikesir, Iskenderun

Product Application

- Industrial Buildings
- Military Buildings
- Public Buildings
- Agricultural Buildings
- Sports Facilities
- Construction Site Buildings
- Silos
- Hypermarkets
- Shopping Centers
- Storehouse Halls
- Administrative Buildings

and all other concrete structures with steel or prefabricated load bearing systems.

Performance Advantages

Has the best thermal insulation values.

Fast and problem-free assembly saves time and labor.

The colorful surface eliminates the need for additional coatings like plaster and paint.

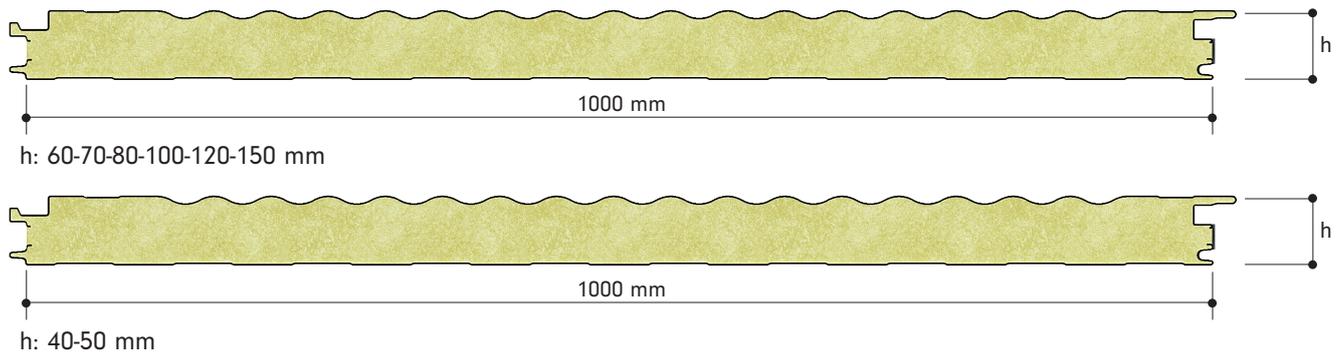
Color options available in the RAL catalogue.

Surface paint options available according to application (Polyester, PvdF, Plastisol, PVC).

Applicable both laterally and vertically.

The fastening elements being concealed provides visual advantage on walls.

Measurements



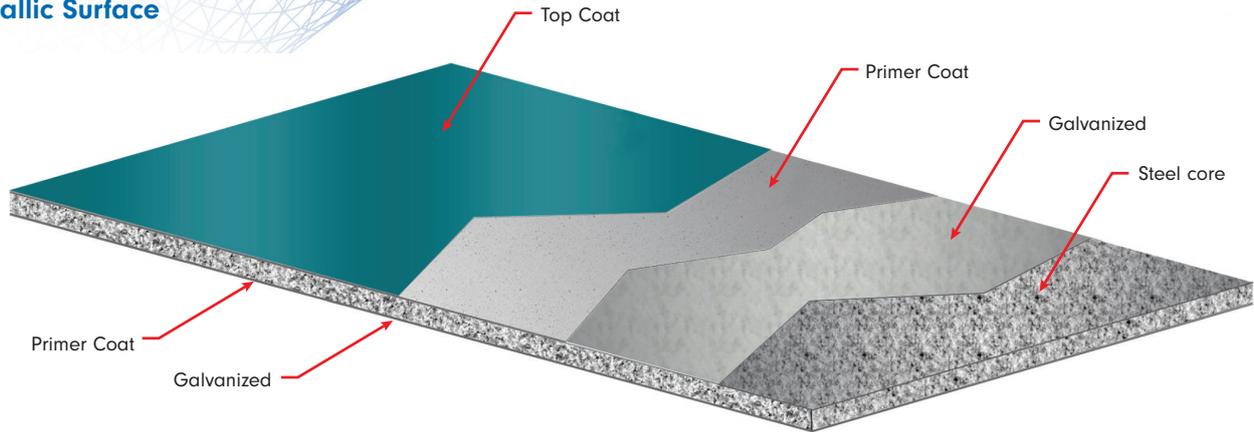
Modular Width	1,000 mm
Minimum Length	3 meters
Maximum Length	Depends on transport conditions.

SmartCore - PIR Elite - PIR



Density (EN 1602)	PIR: 40 (± 2) kg/m ³ & SmartCore-PIR Elite: 41 (± 2) kg/m ³
Thickness	50-60-70-80-100 mm
Thermal Conductivity (EN 13165)	PIR Elite-PIR: 0.022-0.024 & SmartCore: 0.018-0.019 W/mK
Dimensional Stability (EN 13165)	Level DS (TH) 11
Reaction to Fire (EN 13501)	SmartCore-PIR Elite: B-s1,d0 & PIR: B-s2,d0
Water Absorption (EN ISO 354)	By Volume 2% (168 hours)
Closed Cell Percentage (EN 14509)	95%
Vapour Diffusion Resistance (EN 12086)	30-100
Heat Resistance	-200/+110 °C

Metallic Surface



Prepainted Galvanized Steel Surface

Type	Prepainted Galvanized Steel
External Metal Thickness	0.35-0.80 mm
Internal Metal Thickness	0.35-0.80 mm
Thickness Tolerance (EN 10143)	Nominal
Steel Quality (EN 10327)	Dx51 D+Z Prepainted Galvanized Steel (last coat polyester paint on primer)
Paint Type	Polyester, PvdF, Plastisol, PVC

Load / Span Table

PPGS	PPGS	Double Span				
		PIR (mm)	100 cm	150 cm	200 cm	250 cm
External sheet thickness (mm)	Internal sheet thickness (mm)					
0.5	0.4	40	307	183	122	85
0.5	0.4	50	406	246	166	120
0.5	0.4	60	502	308	210	152
0.5	0.4	70	531	328	226	165
0.5	0.4	80	696	432	300	221
0.5	0.4	100	806	507	356	265

Load: kg/m² • Deflection: L/200 • PPGS: Prepainted galvanized sheet

Coefficient of Thermal Conductivity

Thermal Conductivity Values			
Panel Thickness	U Thermal Conductivity (W/m ² K)	R Thermal Conductivity (m ² K/W)	R Thermal Conductivity (ft ² °F h/Btu)
40 mm	0.550	1.818	10.324
50 mm	0.440	2.273	12.905
60 mm	0.367	2.727	15.485
70 mm	0.314	3.182	18.066
80 mm	0.275	3.636	20.647
100 mm	0.220	4.545	25.809

According to TS EN 14509

Mechanical Properties

Steel Faces Yield Strength	min. 220 N/mm ²
Tensile Strength of Panel	min. 0.018 MPa
Shear Strength of Core Material	min. 0.11 MPa
Shear Modulus of Core Material	min. 2.0 MPa
Compressive Strength of Core Material	min. 0.095 MPa
Shear Strength after Long-Term Loading	t: 1,000 hours min. 0.04 MPa t: 2,000 hours min. 0.03 MPa t: 100,000 hours min. 0.03 MPa
Bending Moment Capacity in Span	min. 2.3 KNm/m (Upwards) min. 2.0 KNm/m (Downwards)
Wrinkling Stress in Span	min. 100 MPa (Downwards) min. 115 MPa (Upwards)

According to TS EN 14509.

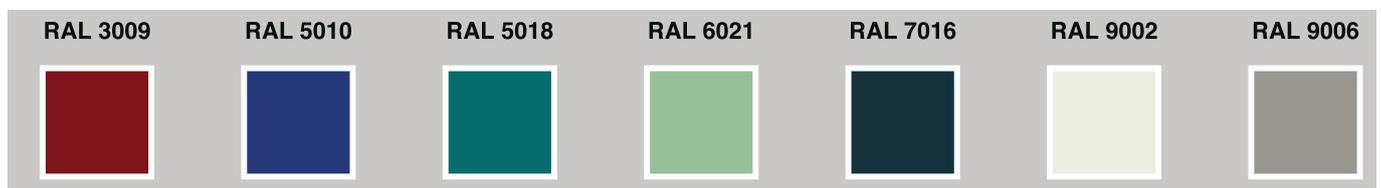
Tolerances

Panel Length	Panel Thickness	Panel Cover Width	Rectangularity
If L ≤ 3,000 mm ± 5 mm If L > 3,000 mm ± 10 mm	D ≤ 100 mm ± 2 mm	± 2 mm for all profiles	0.6% of s ≤ nominal cover thickness (Width x 0.006)

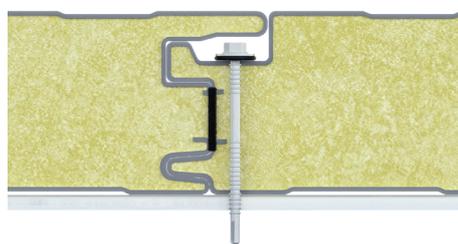
Package

Thickness (mm)	40	50	60	70	80	100
Quantity	20	20	18	14	14	12

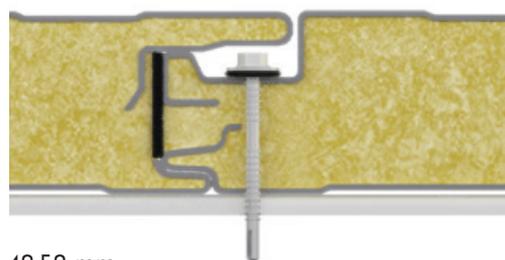
Standart Colors



Joint Details

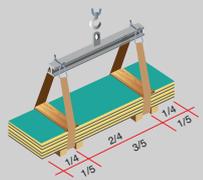


60-70-80-100-120-150 mm



40-50 mm

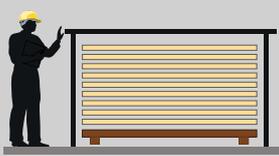
Transportation and Protection of Sandwich Panels



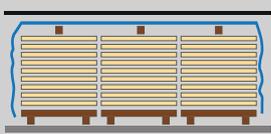
During hoisting, take precaution for the sling.



Do not drag panels in a pile, or on the roof purlins. Lift panels from both ends when moving or laying in place.



Panels to be stored on site for long periods should be stacked in covered areas. Wherever possible, always place stacks preferably on wooden wedges, against ground water.



For shorter periods, stacks should be arranged on sloppy areas with a simple scaffolding and polyethilen cover, leaving space for ventilation. Place stacks on a simple wedge.



Do not walk on panels.