

WDW Wall Panel



Product Description

It is suitable for use on aesthetic facades with its system that hides the fastener. It can be applied both horizontally and vertically. In this way, it offers alternative solutions to designers with the assembly flexibility it provides. It has high strength with its deep micro indented form. It allows to pass wide openings on the facades.

Production Location

Balikesir

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.

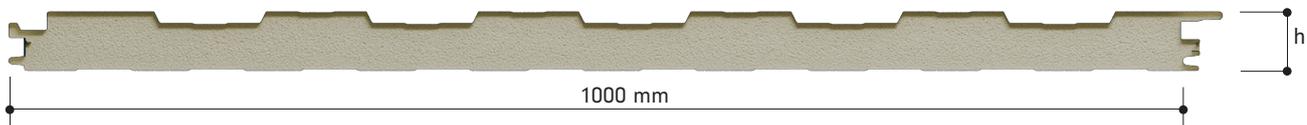
Color options available in the RAL catalogue.

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



h: 50-60-80 mm

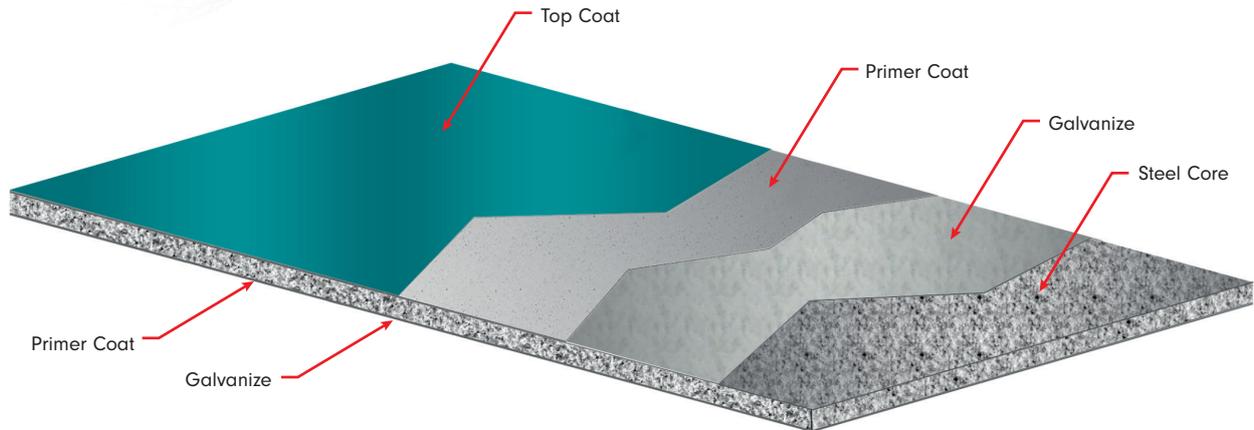
Modular Width	1,000 mm
Minimum Length	3 meter
Maximum Length	It depends on the shipping conditions.

SmartCore - PIR Elite - PIR



Density (EN 1602)	PIR: 40 (±2) kg/m ³ & SmartCore-PIR Elite: 41 (±2) kg/m ³
Thickness	50-60-80 mm
Thermal Conductivity (EN 13165)	PIR Elite-PIR: 0,022-0,024 & SmartCore: 0,019 W/mK
Dimensional Stability (EN 13165)	Level DS (TH) 11
Reaction to Fire (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

Metal Type	Prepainted Galvanized Steel
External Facing Thickness	0,50-0,70 mm
Internal Facing Thickness	0,40-0,70 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 External Sheet Thickness (mm)	PPGS Internal Sheet Thickness (mm)	PUR (mm)	Double Span			
			100 cm	150 cm	200 cm	250 cm
0.5	0.4	50	479	290	196	141
0.5	0.4	60	585	359	246	179
0.5	0.4	80	799	498	346	255

- Load values kg/m³ • Limit value L/200 • BGS: Painted Galvanized Steel
- The average thickness of the panel is taken into account when calculating the load carrying values.

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)
50 mm	0,440	2,273	12,905
60 mm	0,367	2,727	15,485
80 mm	0,275	3,636	20,647

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. 0.01 MPa
Bending Moment Capacity in Span	min. 2.3 kN/m (Straight) min. 2.0 kN/m (Reverse)
Wrinkling Stress in Span	min. 100 MPa (Reverse) min. 115 MPa (Straight)

According to TS EN 14509

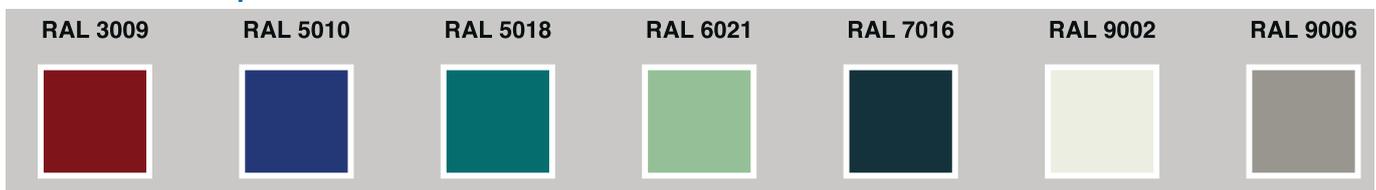
Tolerances

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

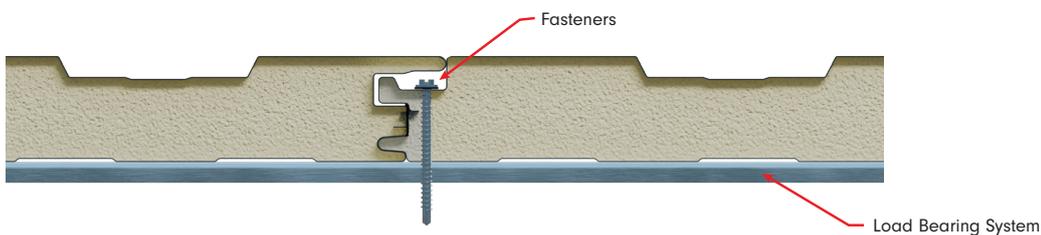
Standard Package Quantities

Thickness (mm)	50	60	80
Quantity	20	18	14

Standard Color Options



Joint Details



Transportation and Protection of Sandwich Panel

