

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

Balıkesir

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.

EN .PRW.WDW.02

Assan Panel reserves the right to change the features of its products. The property rights of third parties must be respected. Acceptance of all orders is based on our current terms of sale and shipping. Users should always consider the latest edition of the Local Product Information Sheet for the relevant product, which can be obtained by contacting Assan Panel.



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

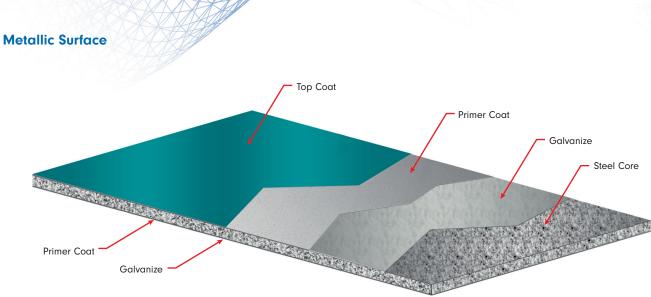


Density (EN 1602)	PIR: 40 (±2) kg/m ³ & SmartCore-PIR Elite: 41 (±2) kg/m ³		
Thickness	50-60-80 mm		
Thermal Conductivity (EN 13165)	PIR Elite-PIR: 0,022-0,024 & SmartCore: 0,019 W/mK		
Dimensional Stability (EN 13165)	Level DS (TH) 11		
Reaction to Fire (13501)	SmartCore-PIR Elite: B-s1,d0 & PIR: B-s2,d0		
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		



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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	PPGS	Double Span				
External Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR (mm)	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/m $^{\scriptscriptstyle 3}$ + 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/m²K)	R Thermal Conductivity (m²K/W)	R Thermal Conductivity (ft² °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



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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

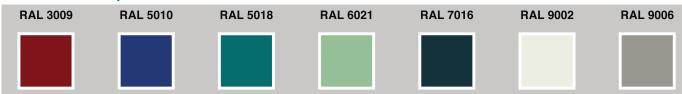
Tolerances

P	anel Length	Panel Thickness	Panel Cover Width	Rectangularity
	mm, then 5 mm, and if 1 mm, then 10 mm	D ≤ 100 mm ±2 mm	± 2 mm for all profiles	0.6% of s ≤ nominal cover thickness (Width x 0.006)

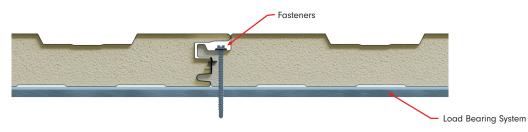
Standard Package Quantities

Thickness (mm)	50	60	80
Quantity	20	18	14

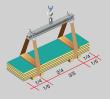
Standard Color Options



Joint Details



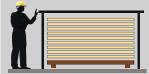
Transportation and Protection of Sandwich Panel



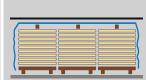
During hoisting take precautions for the sling.



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



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



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



Do not walk on panels.

