# () OptiPanel

### **Optiwall Panel**



#### **Product Information**

Optiwall panels have a hidden-screw joint detail and produced in micro pressed form to achieve an aesthetic appearance for walls. The ability to install both horizontally and vertically provides flexibility and design solutions.

#### Üretim Yeri

İstanbul, İskenderun

#### Uygulama Alanları

- 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.

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#### **Performance Advantages**

It has the good thermal insulation values.

Fast and trouble-free installation saves both time and labor.

Polyurethane does not retain water and does not harbor bacteria and insects.

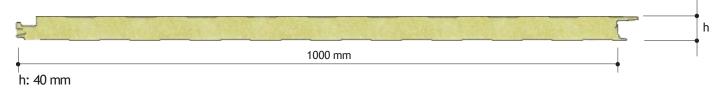
Thanks to n-Pentane which is used to inflate the Polyurethane, no damage is caused to nature.

Thanks to its colored surface, additional coatings such as plaster and paint are not required.

It can be applied both horizontally and vertically.

It provides a visual advantage on facades thanks to the hidden connection element.

#### **Measurements**



Favorable Width	1000 mm
Minimum Height	3 meter
Maximum Height	13,5 meter

#### **Polyurethane (PUR)**



Polyurethane Density (EN 1602)	33 ±6 kg/m <sup>3</sup>	
Polyurethane Density	40 mm	
Thermal Conductivity (EN 13165)	0,022-0,024 W/mK	
External Facing Thickness	0,50-0,30 mm	
Internal Facing Thickness	0,50-0,30 mm	
Steel Quality (EN 10327)	Dx51 D+Z Prepainted Galvanized Steel (last coat polyester paint on primer)	

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#### **Thermal Conductivity Values**

Thickness	Thermal Conductivity	Thermal Resistance	Thermal Resistance
	(W/m²K)	(m²K /W)	(ft <sup>2</sup> ºF h/Btu)
40 mm	0,575	1,739	9,875

#### **Mechanical Properties**

Steel Surface Yield Strength	Min. 0,018 Mpa
Panel Tensile Strength	Min. 0,095 Mpa
Compressive Strength of Core Material	Min. 0,018 Mpa

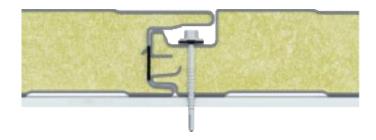
#### **Tolerance Properties**

Panel Length	Panel Thickness	Panel Cover Width
If L<=3000 mm, -±5 mm; If L>3000 mm, ±10 mm	D ≤ 100mm ±2mm	±2 mm for all profiles

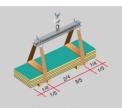
#### **Standard Colour Option**



#### **Joint Details**



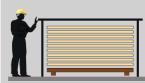
#### **Transportation and Protection of Sandwich Panel**



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 strored 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 scatfolding and polyethilen cover, leaving space for ventilation. Place stacks on a simple wedge.



Do not walk on panels.

