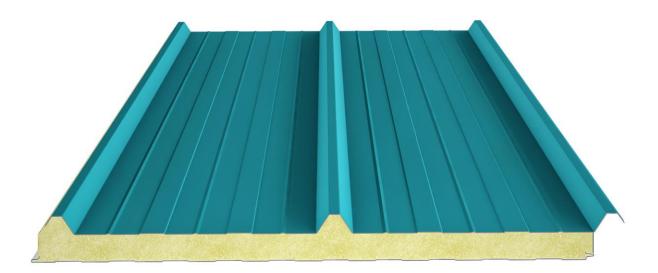


Opti Panel LP PIR N3 Roof Panel



Product Information

Opti Panel LP PIR N3 Roof panel is a three ribs profilled roof panel. Its biggest advantage is that it enables quick installation thanks to the side overlap panel connection.

Production Plant

İstanbul, İskenderun ve 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.

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

Good heat insulation values.

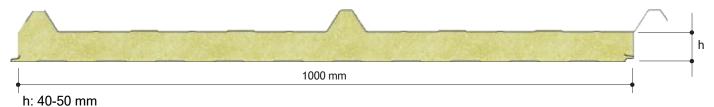
Fast and problem-free assembly saves both time and labor.

Polyurethane does not keep water within its body and it does not accommodate bacteria and insects.

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

The colorful surface does not require additional coating like plaster or paint.

Measurements



Favorable Width	1000 mm	
Minimum Height	3 meter	
Maximum Height	Depends on the transport conditions.	

Polyisocyanurate (PIR)



Polyurethane Density (EN 1602)	38±2 kg/m ³	
Polyurethane Density	40-50 mm	
Thermal Conductivity (EN 13165)	0,022-0,024 W/mK	
External Facing Thickness	0,60-0,35 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)	



Thermal Conductivity Values

Thickness	Thermal Conductivity (W/m²K)	Thermal Resistance (m²K /W)	Thermal Resistance (ft² ºF h/Btu)
40 mm	0,575	1,739	9,875
50 mm	0,460	2,174	12,343

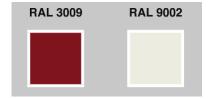
Mechanical Properties

Steel Surface Yield Strength	Min. 220 N /mm² (BGS)	
Panel Tensile Strength	Min. 0,018 Mpa	
Compressive Strength of Core Material	Min. 0,095 Mpa	

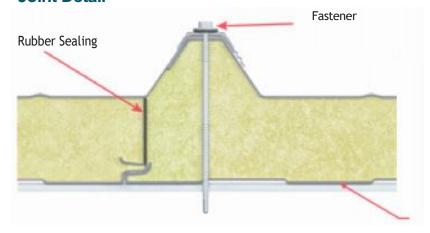
Tolerance Properties

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

Standard Colour Options

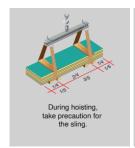


Joint Detail



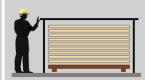
Bearing System

Transportation and Protection of Sandwich Panel

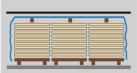




Do not drag panels in a pile, or on the roof purlins. Lift panels from both ends when moving or laying in place.



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



Do not walk on panels.