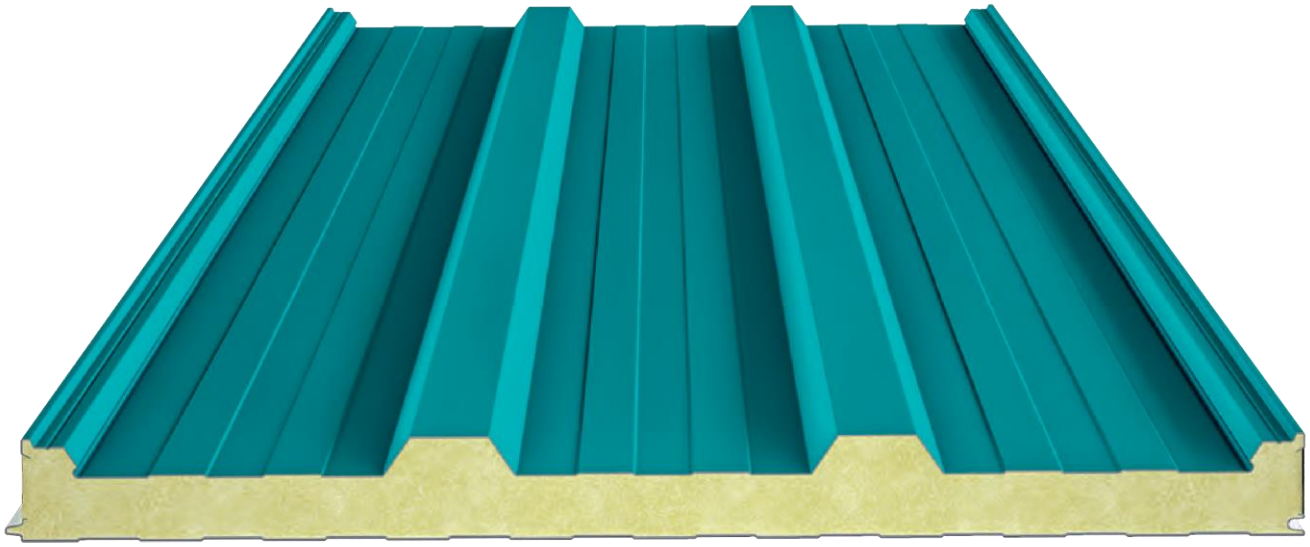
Opti Panel Capped PIR R4



Product Description
Capped roof sandwich panel with four ribs, extra strong edge design for high load carrying capacity

Place of Production
Istanbul

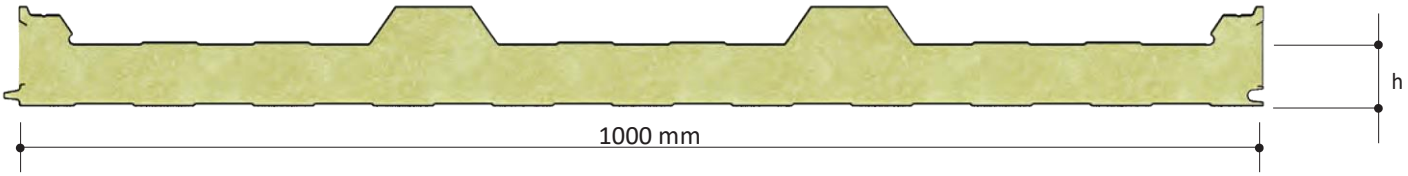
Fields of Application
Structures with steel or prefabricated concrete carrier system, such as

- Industrial Buildings
- Military Buildings
- Social Buildings
- Agricultural Buildings
- Sports facilities
- Worksite buildings
- Silos
- Hypermarkets
- Shopping malls
- Marketplace buildings
- Administrative buildings

Performance Assessment

The best thermal insulation values.
Fast and smooth installation allows for saving both time and labor.
Polyisocyanurate does not retain water, it does not host any bacteria or pests.
It is eco-friendly as n-Pentane gas is used as blowing agent for polyisocyanurate.
Does not require any additional coating such as plaster, paint, etc. thanks to its color surface.
Applicable by minimum 10% elevation as roofing.

Sizes



h: 40-50 mm

Effective Width	1000 mm
Minimum length	3 m
Maximum length	Depends on Shipping Conditions

Polyisocyanurate (PIR)

Polyisocyanurate Density (EN 1602)	38 ±2 kg/m³
Polyisocyanurate Thickness	40-50 mm
Thermal Conductivity Coefficient (EN 13165)	0.022-0.024 W/mK
Upper Metal Thickness	0.45 mm
Lower Metal Thickness	0.35 mm
Fire Classification (EN 13501)	b.s2.d0
Sheet Quality (EN 10327)	DX51 D+Z Painted Galvanized Sheet (Polyester finish on primer)

Thermal Conductivity

Panel Thickness	U Thermal Conductivity (W/m²K)	R Thermal Conductivity (m²K /W)	R Thermal Conductivity (ft² °F h/Btu)
40 mm	0.547	1.8281	12.550
50 mm	0.447	2.2371	15.400

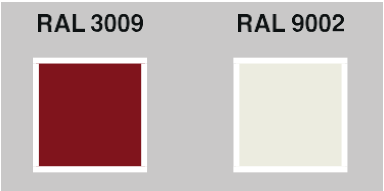
Mechanical Characteristics

Yield Strength of Steel Surfaces	Min. 220 N /mm² (BGS)
Panel Tensile Strength	Min. 0.018 Mpa
Core Material Compression Resistance	Min. 0.095 Mpa

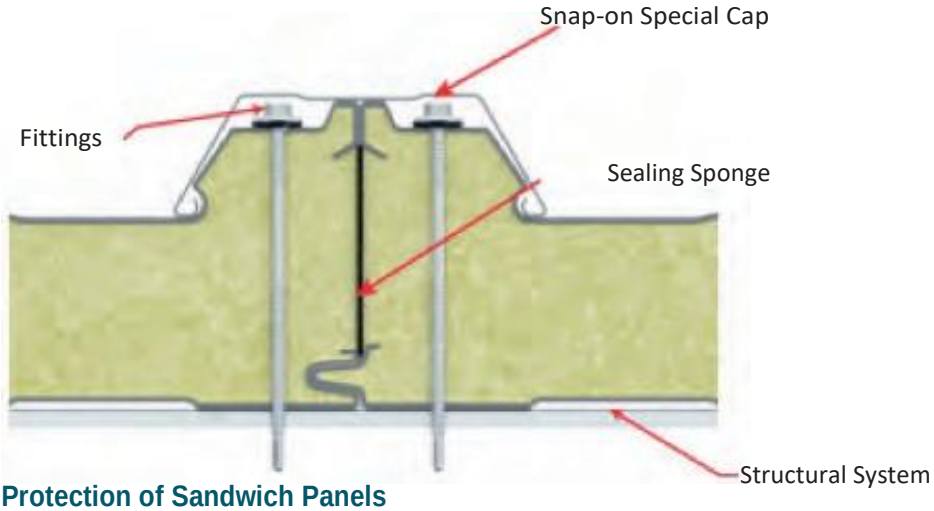
Tolerance Values

Panel Height	Panel Thickness	Panel Cover Width	Squareness Deviation
if L<=3000 mm., ±5 mm., if L>3000 mm., ±10 mm.	D ≤ 100mm ±2mm	±2mm for all profiles	0.6% of s ≤ nominal cover thickness / (Width (w) x 0.006)

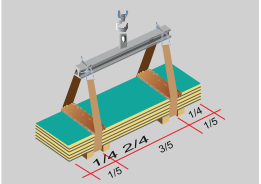
Standart Colour Options



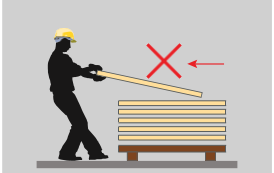
Joint Details



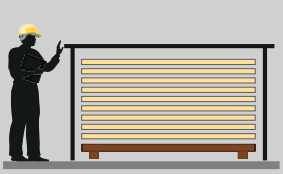
Protection of Sandwich Panels



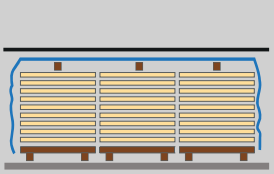
When lifting by crane, protect the material from sling crushing and place the lower carriers to the proper dimensions.



Stowed panels should be lifted at both ends if the panel is short, and at the ends and in the middle if the panel is long. Do not drag the panel. Dragging can cause scratches, especially on painted panels.



Even in short periods of time, protect the panels from external factors, and if possible, choose an area with very little slope to prevent water accumulation.



Panels to be stored on site for long periods should be stacked in covered areas, if possible.

Do not step on panels.