

# **N3 Foiled Roof Panel**



#### **Product Information**

It is a three-indented lateral connected sandwich panel. Roofs with a 10% gradient can be covered. Its biggest advantage is that it enables fast assembly thanks to lateral connected panel connection.

#### **Production Plant**

İstanbul, İskenderun, 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.



# **Performance Advantages**

Best 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.

Color can be selected from the RAL catalogue.

There are surface paint options (Polyester, PvdF, Plastisol, PVC) suitable to the place of use.

Usable as a roof cover for minimum 10% slope.

#### **Measurements**



h: 30-40 mm

Favorable Width	1000 mm
Minimum boy	3 meters
Minimum Width	Depends on the transport conditions

## Polyurethane (PUR) - Polyisocyanurate (PIR)



Polyurethane Density (EN 1602)	40 (±2) kg/m <sup>3</sup>
Polyurethane Thickness	30-40 mm
Thermal Conductivity (EN 13165)	0,022-0,024 W/mK
Dimensional Stability (EN 13165)	Level DS (TH) 11
Reaction to Fire (EN 13501)	B. S2 . d0
Water Absorption (EN ISO 354)	2% by volume (168 hrs)
Closed cell rate (EN 14509)	95%
Vapour Diffusion Resistance (EN 12086)	30-100
Heat Resistance	-200 /+110 °C



**Assan**Panel

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### **Prepainted Galvanized Steel Structure**

Metal Type	Painted Galvanized Sheet
External Facing Thickness	0,50-0,70 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



#### **Aluminium Steel Surface**

Туре	Aluminium
Specification	Lacquered 20· Al foil / 20 gr / m <sup>2</sup> PE / 350 gr / m <sup>2</sup> Chromium Carton / 20 gr / m <sup>2</sup> PE

# **Thermal Conductivity Values**

Panel Thickness	U Thermal Conductivity W/m²K)	R Thermal Conductivity (m²K/W)	R Thermal Conductivity (ft² °F h/Btu)
30 mm	0,522	2,112	11,989
40 mm	0,497	2,011	11,418



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#### **Tolerance Values**

Panel Length	Panel Thickness	Panel Cover Width	Rectangularity
L<=3000 mm. ise- ±5 mm., L>3000 mm. ise ±10 mm	D ≤ 100mm ±2mm	For all profiles ±2mm	0.6% of s ≤ nominal cover thickness (Width x 0.006)

According to TSE EN 14509.

#### **Standard Package**

Thickness (mm)	30	40
Quantity	22	20

#### **Standard Colour Options**

RAL 3009	RAL 5010	RAL 5018	RAL 6021	RAL 7016	RAL 9002	RAL 9006

#### **Joint Details**



- Bearing System

## Transportation and Protection of Sandwich panel



During hoisting take precautionfor the sling.



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



Panel's to be strored on site for long periods should be stacked in covered areas. Wherever 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 polyethilen coverleaving space for ventilation. Place stacks on a simple wedge.



Do not walk on panels.

