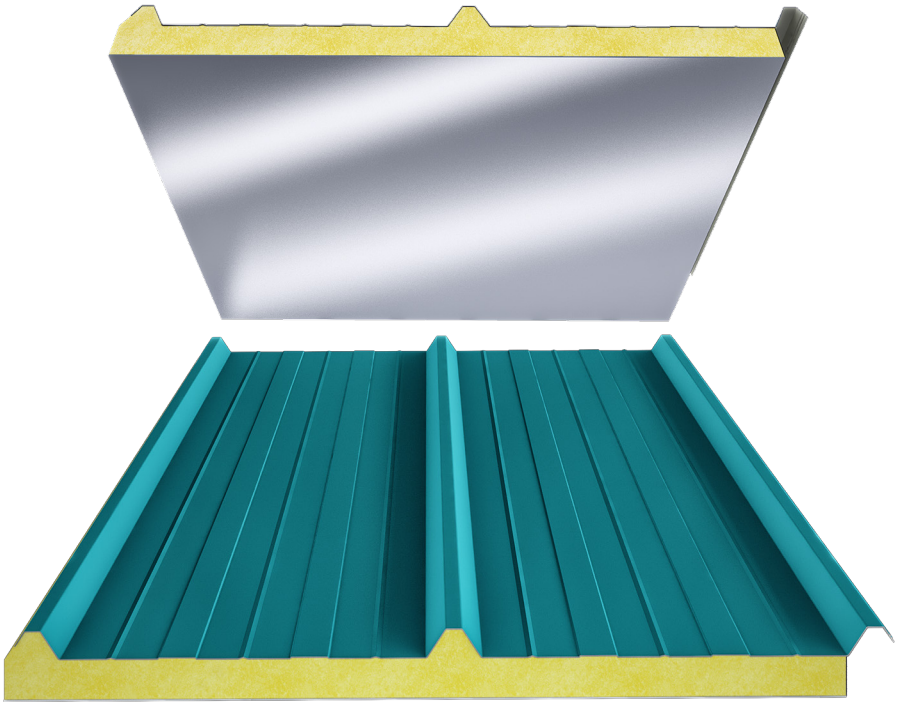
# N3 Foiled Roof Panel



## 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

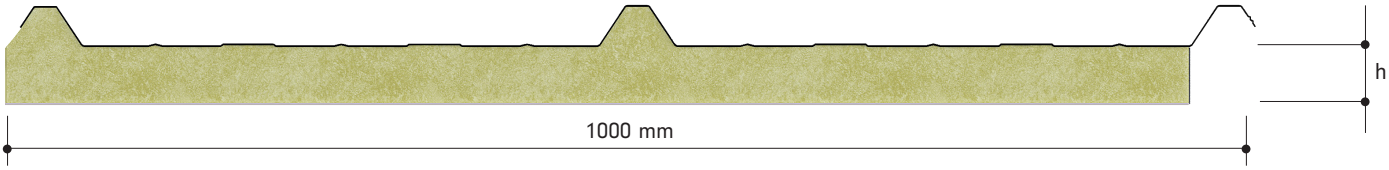
And all other concrete structures with steel or prefabricated load bearing systems.

EN.PRR.N3F.00

## 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.

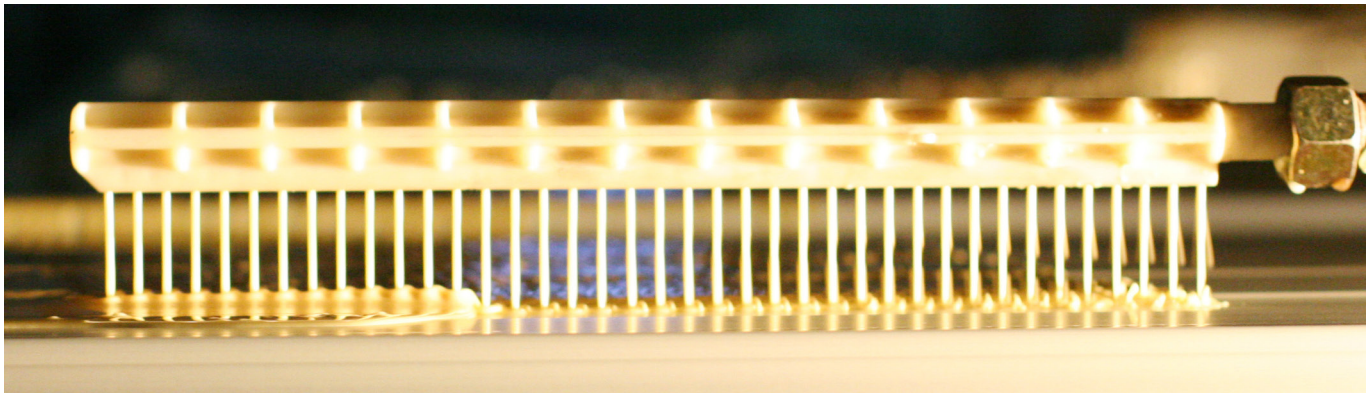
### Measurements




h: 30-40 mm

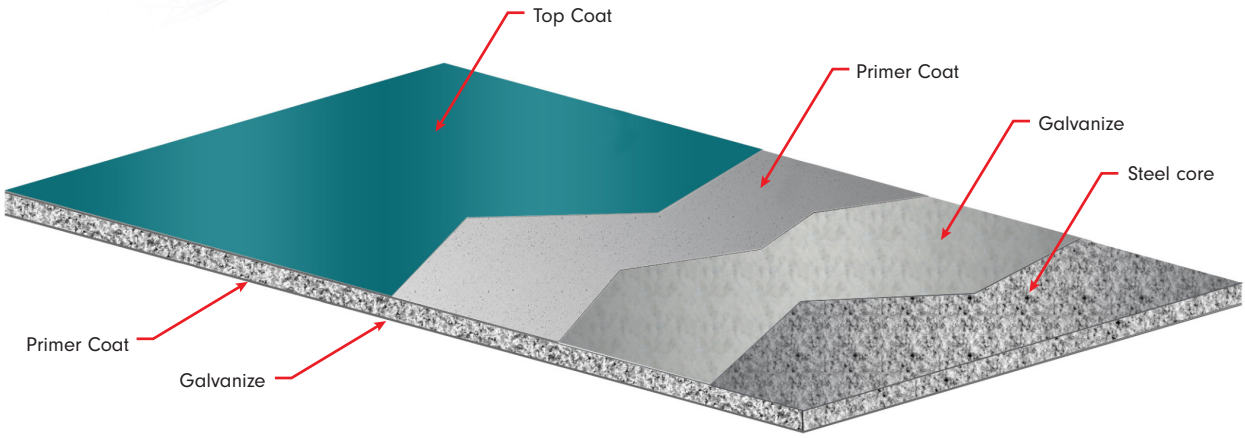
| | |
|---|---|
| **Favorable Width** | 1000 mm |
| **Minimum boy** | 3 meters |
| **Minimum Width** | Depends on the transport conditions |

### Polyurethane (PUR) – Polyisocyanurate (PIR)



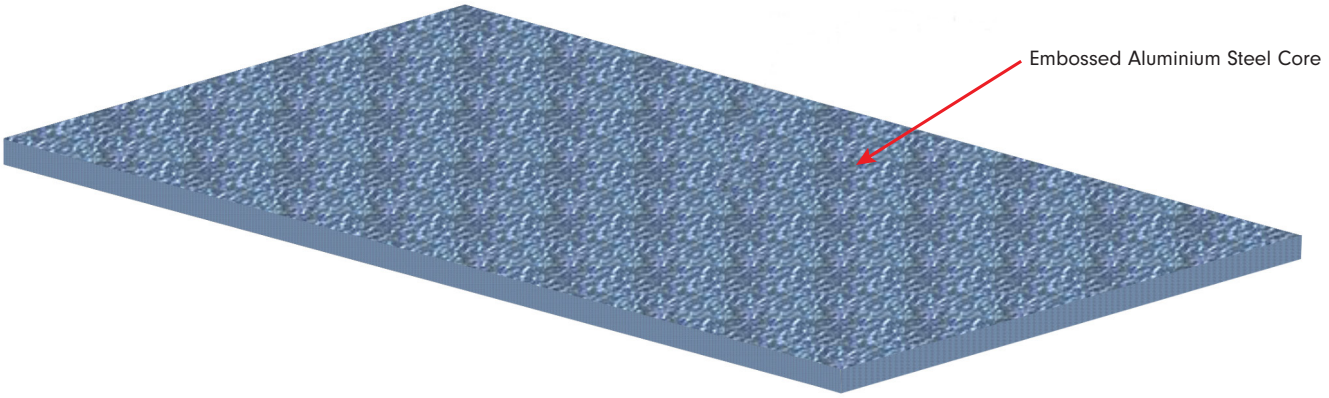
| | |
|---|---|
| **Polyurethane Density (EN 1602)** | 40 (±2) kg/m$^3$ |
| **Polyurethane Thickness** | 30-40 mm |
| **Thermal Conductivity (EN 13165)** | 0,022-0,024 W/mK |
| **Dimensional Stability (EN 13165)** | Level DS (TH) 11 |
| **Reaction to Fire (EN 13501)** | B. S2 . d0 |
| **Water Absorption (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 |

## Steel Surfaces




## 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

| | |
|---|---|
| **Type** | Aluminium |
| **Specification** | Lacquered 20· Al foil / 20 gr / m²PE / 350 gr / m² Chromium Carton / 20 gr / m²PE |

## 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 |

## 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.

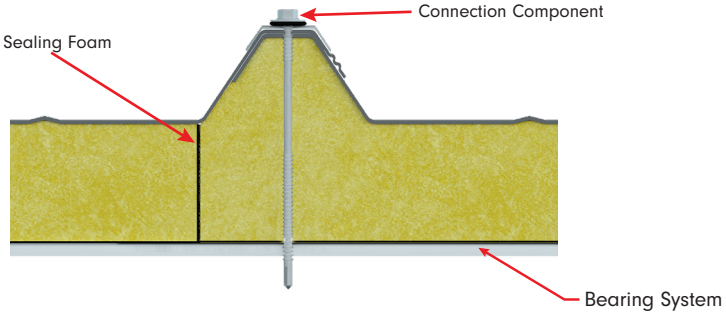
## Standard Package

| Thickness (mm) | 30 | 40 |
|---|---|---|
| Quantity | 22 | 20 |

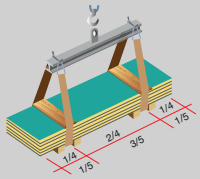
## Standard Colour Options

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

## Joint Details

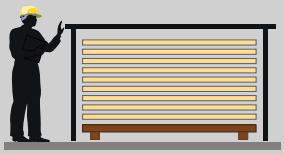



## Transportation and Protection of Sandwich panel

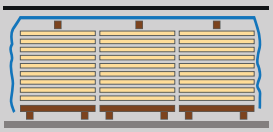



During hoisting take precautionfor the sling.

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.