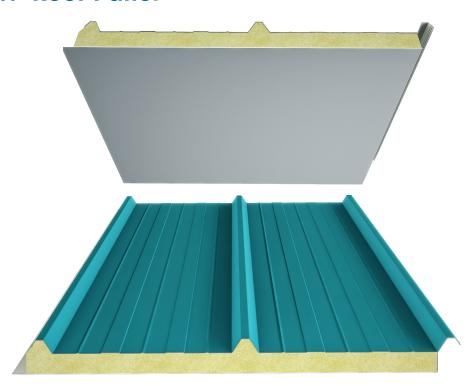


# **N3 CTP Roof Panel**



#### **Product Description**

It is a three-indented lateral connected sandwich panel which is produced as pre-painted galvanize steel on top, with CTP on the bottom surface. Roofs with a 10% gradient can be covered. CTP panels are used in the facilities specifically in poultry farms where hygienic requirements are prioritized. Furthermore, it is a product that is mostly used for the facilities which has corrosion risk and for the projects requiring low budget solutions where a mechanical performance is not highly required. In order to facilitate the assembly of the product, tapes can be applied to the CTP part which is left long.

#### **Production Plant**

Balıkesir

## **Product Application**

- Poultry Farms
- · Industrial Buildings
- Military Buildings
- Public Buildings
- Agricultural Buildings
- Sports Facilities
- Construction Site Buildings
- Silos
- Hypermarkets
- Shopping Centers
- Storehouse Halls

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.

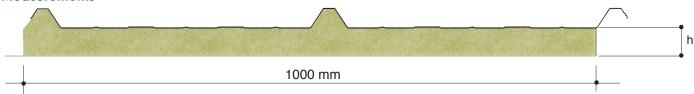
The colorful surface does not require additional coating like plaster or paint.

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: 40-50 mm

Favourable Width	1000 mm
Minimum Length	3 meters
Maximum Length	9 meters

#### Polyurethane (PUR) - Polyisocyanurate (PIR)



#### **Surfaces**

#### **Prepainted Galvanized Steel Surface**

Туре	Prepainted Galvanized Steel
External Facing Thickness	0,50 mm
Thickness Tolerance (EN 10143)	Nominal
Steel Quality (EN 10327)	Dx51 D+Z Prepainted Galvanized Steel (last coat polyester paint on primer
Hot Dipped Coated Steel Grade (EN 10327)	100-275 gr/m <sup>2</sup>
Paint Type	Polyester, PvdF, Plastisol, PVC





#### **Surfaces**

## Fiberglass Reinforced Polyester Surface

Туре	СТР
External Facing Thickness	0,70 mm
Glass amount (TS 1177/ISO 1172)	28,2%
Barcol Hardness (TS EN 59)	>30-35%
Tensile Strength ( ISO547-4/2/2)	54 N/mm²
Elongation at Break (ISO 547-4/2/2)	2,08%

## **Load Bearing Tables**

	BGS	СТР								
Ex	tternal Sheet Thickness (mm)	Internal Sheet Thickness (mm)	PUR (mm)	100 cm	125 cm	150 cm	175 cm	200 cm	225 cm	250 cm
	0,5	0,7	40	560	386	275	228	185	138	104
	0,5	0,7	50	596	421	320	257	205	154	119

Load :  $kg/m^2$  \*Deflexion: L/200 •BGS: Prepainted Galvanized Sheet

### **Thermal Conductivity**

## **Polyurethane Thermal Conductivity Values**

Panel Thickness	U Thermal Conductivity (W/m²K)	R Thermal Conductivity ( m²K/W)	R Thermal Conductivity (öft2 °Fh/Btu)	
40 mm	0,497	2,011	11,418	
50 mm	0,406	2,465	14,000	

According to TSE EN 14509.

## **Mechanical Properties**

Steel Surface Yield Strength	min. 220 N/mm <sup>2</sup>
Panel Tensile Strength	min. 0,018 Mpa
Panel Tensile Modulus at Elevated Temperature	min. 0,04 Mpa
Shear Strength of Core Material	min. 0,11 Mpa
Shear Modulus of Core Material	min. 1,5 Mpa
Compressive Strength of Core Material	min. 0,095 Mpa
V. 116 W. 1	t=100.000 (hrs (Free Load)
Yield Coefficient	t=100.000 (hrs (Snow Load): 2,4
	t: 1.000 saat min. 35%
Sheer Strength After Long-Continued Loading	t: 2.000 saat min. 30%
	t: 100.000 saat min. 7%
Ponding Moment Canacity in Span	min. 2,5 KNm/m (Upwards)
Bending Moment Capacity in Span	min. 1,5 KNm/m (Downwards)
Açıklıkta Burulma Gerilmesi	min. 100 Mpa

According to TSE EN 14509.





#### **Tolerance Values**

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

## **Standard Package**

Thickness (mm)	40	50	80	100	120	130	150
Number	20	18	10	9	8	7	6

### **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



