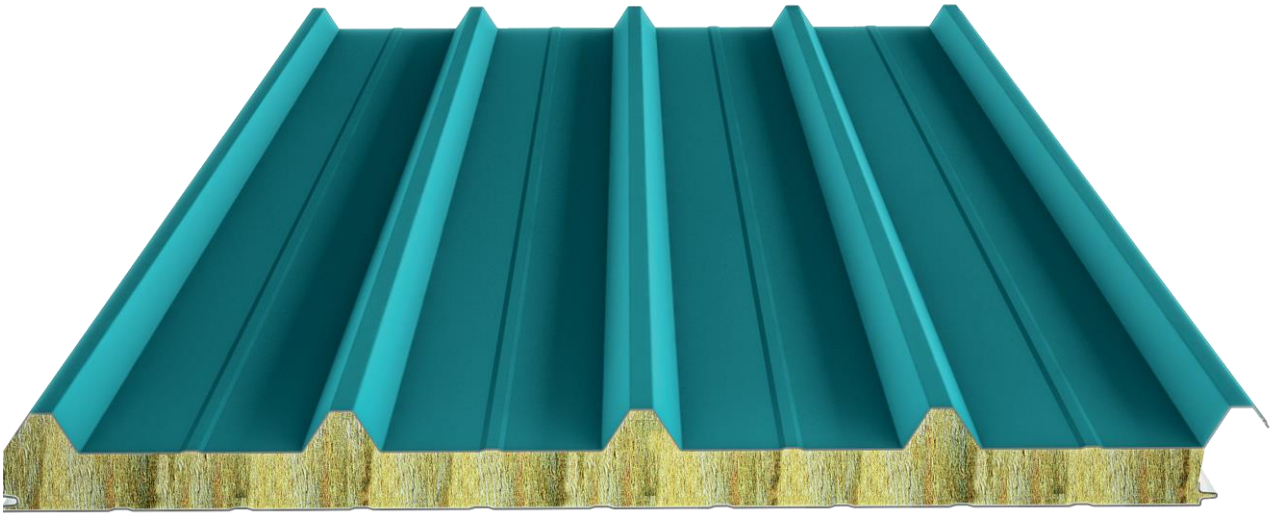


OPTİ 5T Roof Panel



Product Description

It can be safely used in buildings with high fire risk and in buildings where maximum fire resistance is required, while its five-rib form allows wide openings to be safely crossed. Roofing can be done with a 10% slope. Provides advantages in fast assemblies thanks to its lateral binned panel combination. Offers high acoustic performance thanks to its rockwool inner filling material.

Place of Production

Balıkesir

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

The information provided herein about Assan Panel products, in particular advice on their application and end use, is given in good faith based on Assan Panel's current knowledge and experience of the proper handling, storage, treatment and application of these products under normal conditions and in accordance with Assan Panel's recommendations. The application surfaces and application areas for the products vary considerably in practice. For this reason, when using Assan Panel products, make sure that you apply the right product, under the right conditions, in the right way and in the right place, and strictly follow the information and instructions provided by Assan Panel regarding commercial suitability and/or suitability for a specific purpose. Otherwise, Assan Panel is not responsible for any damages that may occur. The user (user) of the product should test the suitability of the product for the application and purpose for which they intend to use the product. Assan Panel reserves the right to modify the specifications of its products. The property rights of third parties shall be respected. All orders are accepted on the basis of our current terms of sale and transportation. Users should always refer to the latest edition of the Local Product Data Sheet of the relevant product, which can be obtained by contacting Assan Panel.

Performance Assessment

Offers the best fire resistance values.

Fast and smooth installation allows for saving both time and labor.

Provides high-quality sound insulation as well as thermal insulation.

Does not require any additional coating such as plaster, paint, etc. thanks to its color surface.

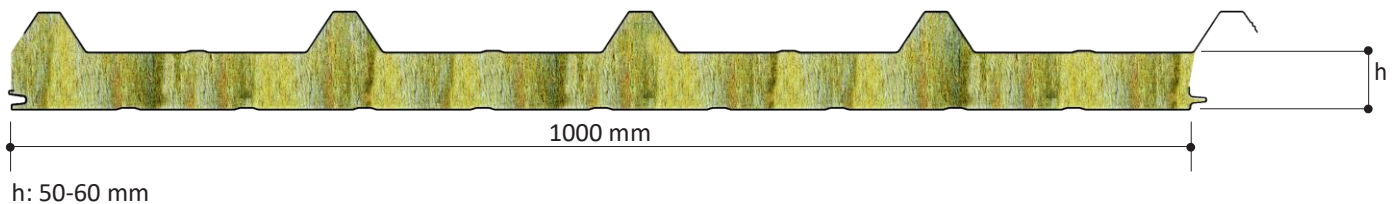
Exterior paint options (Polyester, PvdF, Plastisol, PVC, etc.) are available for application surface.

It does not degrade, rot or mold over time.

High sound insulation performance.

Applicable by minimum 10% elevation as roofing.

Sizes



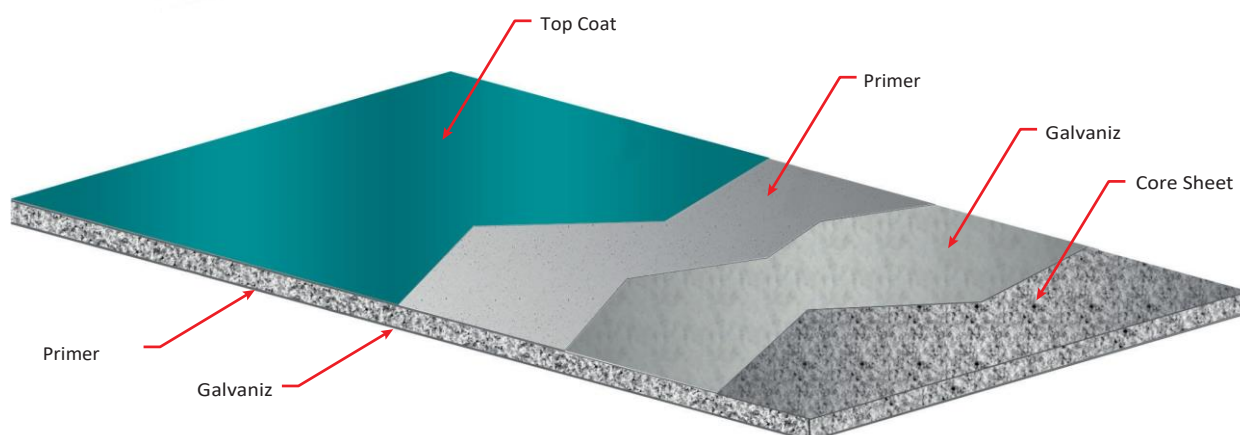
Effective Width	1000 mm
Minimum length	3 meter
Maximum length	Depends on Shipping Conditions

Rockwool



Rockwool Density	95 (± 10) kg/m ³
Rockwool thickness	50- 60 mm
Heat Conduction Coefficient	0.033 W/mK
Fire Classification (EN 13501-1)	A1
Water absorption	2 by volume
Temperature Resistance	600 °C
Acoustic Insulation Rw [dB] ≥	30
Water Vapor Diffusion (EN 12086)	1

Metal Surfaces



Prepainted Galvanized Sheet Metal Surface

Metal Type	Prepainted Galvanized Sheet
Upper Metal Thickness	0.50 mm
Lower Metal Thickness	0.40 mm
Thickness Tolerance (EN 10143)	Nominal
Sheet Quality (EN 10327)	DX51 D+Z Painted Galvanized Sheet (polyester finish on primer)
Paint Type	Polyester, PvdF, Plastisol, PVC

Thermal Conductivity Values

Rockwool Thermal Conductivity Values

Panel Thickness	U Thermal Conductivity (W/m ² K)	R Thermal Conductivity (m ² K /W)	R Thermal Conductivity (ft ² °F h/Btu)
50 mm	0.585	1.708	9.698
60 mm	0.497	2.011	11.418

According to TSE EN 14509

Mechanical

Yield Strength of Steel Surfaces	min. 220 N/mm ²
Panel Tensile Strength	Min. 0.018 Mpa
High-Temperature Transverse Tensile Modulus	min. 0.04 Mpa
Core Material Shear Resistance	min. 0.06 Mpa
Core Material Shear Modulus	min. 3.0 Mpa
Core Material Compression Resistance	min. 0.07 Mpa
Free Bending Moment Capacity	min. 2.5 KNm/m (Straight) min. 1.5 KNm/m (Reverse)

According to TSE EN 14509

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)

Standard Package Quantities

Thickness (mm)	50	60
Quantity	14	12

Standard Colour Options

RAL 9002



Joint Details



Protection of Sandwich Panels

