KORKMAZ
industry

CORRUGATED PANEL

Cold room panels are interlocking panels produced by injecting 42 (+/-2) kg/m³ density polyurethane foam between 0.50mm sheets on both sides. They can also be produced without locks upon request

CORRUGATED PANEL GENERAL INFORMATION

Cold room panels are interlocking panels produced by injecting 42 (+/-2) kg/m³ density polyurethane foam between 0.50 mm sheets on both surfaces. They can also be produced without locks upon request.

Panel surface material options include POLY, PVC, Cr-NI, and GALVANIZED sheets. Panel thicknesses range from 50 to 200 mm, with a width of 1110 mm. Panel lengths can be produced up to 12800 mm depending on the shape of the room. The panels' surface is smooth, hygienic, and easy to clean.

The panels have a special design that prevents heat loss with their accessories. Panels are kept in a 600-ton press for a minimum of 30 minutes and a maximum of 90 minutes until their reaction is complete according to their thickness. During production, a 50-micron surface protection film covers

MEKANİK ÖZELLİKLER

FEATURES	VALUES
Yield Strength of Sheet Surface (fct)	min. 220N/mm²
Tensile Strength of Panel	min. 0,018 Mpa
High Temperature Transverse Tensile Module	min. 0,04 MPa
Core Material Shear Strength (fcv)	min. 0,11 Mpa
Core Material Shear Modulus (G)	min. 2 Mpa
Core Material Compressive Strength (σ10)	min. 0,09 Mpa
Bending Moment Capacity and Rigidity – Flat (Mu)	min. 2,3 kNm/m
Bending Moment Capacity and Rigidity – Reverse (Mu)	min. 2 kNm/m
Torsional Stress Straight (σw)	115 Mpa
Torsional Stress Reverse (σw)	100 Mpa
Bending Moment Capacity on a Central Support – Straight	2,95 kNm/m
Bending Moment Capacity on a Central Support – Inverse	3 kNm/m
Torsional Stress Capacity on a Central Support – Straight	133 Mpa
Torsional Stress Capacity on a Central Support – Reverse	118 Mpa
PUR Thermal Conductivity Value ( )	max. 0,022 W/mK
Dimensional Stability	Level DS(TH) 11
Inflammability Class (TS-EN 13501-1)	C-s2,d0

GENERAL FEATURES

FEATURES	VALUES
Panel Width (cm)	30 – 40 – 50 – 111
Panel Thickness (mm)	50 – 60 – 80 – 100 – 120 – 150 – 180 – 200
Panel Density	40±2 kg/m³
Sheet Coating Types	Polyester – PVC – CrNi
Colour	RAL 9002
Pattern	Notched – Straight
Insulation	Polyurethane
Sheet Thickness (mm)	0,50 mm

BOYUTSAL TOLERANSLAR

FEATURES	VALUES
Thickness	± %4
Length	± 10 mm
Width	± 2 mm
Deviation from Miter	± 5 mm

Density | Fire Resistant | Heat Insulation | Water Moisture Resistant | Soundproofing | Soundproofing