



FLOOR PANEL

The floor panels we manufacture are lockable panels with a top surface of plywood and a bottom surface of poly sheet with 42 (+/-2) density polyurethane injected between them. Panel thicknesses are 50, 60, 80, 100, 120, 150, 180, 200 mm, and their width is 1110 mm.

FLOOR PANEL GENERAL INFORMATION

Floor panels have a load-bearing capacity of 2000 kg/m² and can also be produced with a non-slip CR-NI coated sheet on plywood surface upon request. The load-bearing capacity can be increased up to 4000 kg/m² if necessary. Panels are kept in a 600-ton press for a minimum of 30 minutes and a maximum of 90 minutes, depending on the panel thickness, until their reaction is complete. They are produced according to the B2 fire resistance class standard and can also be manufactured according to the B1 fire resistance class upon request.

MECHANICAL PROPERTIES

| FEATURES | VALUES |
|---|---------------------------|
| Yield Strength of Sheet Surface (fct) | min. 220N/mm ² |
| 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 (λ) | 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/m ³ |
| Sheet Coating Types | Polyester – PVC – CrNi |
| Colour | RAL 9002 |
| Pattern | Notched – Straight |
| Insulation | Polyurethane |
| Sheet Thickness (mm) | 0,50 mm |

DIMENSIONAL TOLERANCES

| 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