FORMWORK PANELS

NATURAL BEAUTY FOR CONCRETE SURFACES.
AREAS OF APPLICATION
- Concrete formwork systems
- Wall formwork
- Floor formwork
- Formwork for engineered structures (bridge constructions, foundations)
- Tunnel formwork

ADVANTAGES
- Dimensionally stable through a locked lay-up
- Almost no crack occurrence
- High bending strength and stiffness
- Sanded surface for perfect results
- Lower costs due to a higher number of reuses
- High endurance due to gluing all around

02
OVERVIEW

PRODUCT STANDARD
ÖNORM B 3023

THICKNESSES
21 mm
27 mm

FORMATS
Widths: 500 mm
Lengths: 1,000 to 3,000 mm in 500 mm steps

SURFACE
Sanded and sealed with melamine resin

EDGES
Edges glued with end strips, sealed with acrylic coating

WOOD SPECIES
Cover layer: Spruce/fir
Middle layer: Spruce, fir, pine

SUSTAINABILITY
The HASSLACHER Group stands for a careful use of wood as a resource. Our raw materials come from sustainable and controlled forestry. Our locations are certified according to the strict PEFC™ standards.
BONDING
Alkaline-resistant, water and weatherproof bonding

MOISTURE CONTENT
15% ±3% at time of delivery

MASS IN KG/M²
21 mm thickness: 10.0 kg/m²
27 mm thickness: 12.5 kg/m²

DENSITY
Approximately 450 kg/m³ to 500 kg/m³

SHRINKAGE AND SWELLING BEHAVIOUR
Perpendicular to panel plane
\[ \alpha_{w,90} = 0.24\% \text{ per 1}\% \text{ change in moisture content} \]
Parallel to the panel plane
\[ \alpha_{w,0} = 0.01\% \text{ per 1}\% \text{ change in moisture content} \]

SURFACE
- Quality Selection
- Standard quality
- Surface sanded
- Treated with durable melamine resin sealant

DIMENSIONAL TOLERANCES
in accordance to EN 13353

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, width</td>
<td>±2 mm</td>
</tr>
<tr>
<td>Panel thickness</td>
<td>±1 mm within a panel</td>
</tr>
<tr>
<td>Edge straightness</td>
<td>1.0 mm/m</td>
</tr>
<tr>
<td>Perpendicularity</td>
<td>1.0 mm/m</td>
</tr>
</tbody>
</table>
04
TABLES FOR PRELIMINARY DESIGN

DEFLECTION OF FORMWORK PANELS LIP BLED D.O.O.
3-LAYERED, THICKNESS 21 MM

DEFLECTION OF FORMWORK PANELS LIP BLED D.D.
3-LAYERED, THICKNESS 27 MM

Load q (kN/m²)

Belastung q [kN/m²]

Load q (kN/m²)

Belastung q [kN/m²]
05
DURABLE
MAINTENANCE, STORAGE, CLEANING AND TREATMENT.

RECOMMENDATIONS FOR USE
In order to maximize the number of use cycles and the longest endurance, the following recommendations have to be considered.

- The plates are to be treated with an appropriate form oil and sprayed with sufficient water immediately before concreting.

- After removing the shuttering, the plates should be cleaned as fast as possible and stored on a level surface.

- Suitable forming oils are recommended for maintenance. Please use them according to the manufacturer’s instructions.

- Nailing, drilling or screwing through the Formwork panels should be minimised, since they impair the Formwork panels’ protective coating, and therefore its endurance.
PANEL FORMATS
Thickness 21 mm, 27 mm
Formats 500 x 1,000 mm, 500 x 1,500 mm, 500 x 2,000 mm, 500 x 2,500 mm, 500 x 3,000 mm

PACKAGING UNITS

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Format [mm]</th>
<th>Pieces per packet</th>
<th>m² per packet</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 mm</td>
<td>500 x 1,000</td>
<td>2 x 50</td>
<td>50 m²</td>
</tr>
<tr>
<td></td>
<td>500 x 1,500</td>
<td>2 x 50</td>
<td>75 m²</td>
</tr>
<tr>
<td></td>
<td>500 x 2,000</td>
<td>2 x 50</td>
<td>100 m²</td>
</tr>
<tr>
<td></td>
<td>500 x 2,500</td>
<td>2 x 50</td>
<td>125 m²</td>
</tr>
<tr>
<td></td>
<td>500 x 3,000</td>
<td>2 x 50</td>
<td>150 m²</td>
</tr>
<tr>
<td>27 mm</td>
<td>500 x 1,000</td>
<td>40</td>
<td>20 m²</td>
</tr>
<tr>
<td></td>
<td>500 x 1,500</td>
<td>40</td>
<td>30 m²</td>
</tr>
<tr>
<td></td>
<td>500 x 2,000</td>
<td>40</td>
<td>40 m²</td>
</tr>
<tr>
<td></td>
<td>500 x 2,500</td>
<td>40</td>
<td>50 m²</td>
</tr>
<tr>
<td></td>
<td>500 x 3,000</td>
<td>40</td>
<td>60 m²</td>
</tr>
</tbody>
</table>

Other packaging units are also available on request. Every packet is wrapped in a plastic cover.
Sawn timber
Surfaced timber
Structural finger jointed solid timber & GLT®
Glued solid timber Duo/Trio
Glued laminated timber
Glued ceiling systems
Cross laminated timber
Glued laminated timber – special components
Special products
Pellets
Formwork panels
Pallets & packaging solutions
From wood to wonders.