FORMWORK PANELS

NATURAL BEAUTY FOR CONCRETE SURFACES.
AT A GLANCE

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

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.
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TECHNICAL DATA

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
\[ \alpha_{u,90} = 0.24\% \text{ per 1\% change in moisture content} \]

Parallel to the panel plane
\[ \alpha_{u,0} = 0.01\% \text{ per 1\% change in moisture content} \]

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

DIMENSIONAL TOLERANCES
in accordance to EN 13353

Length, width: limit deviations ±2 mm
Panel thickness: 0.5 mm within a panel, limit deviations ±1 mm

Edge straightness: 1.0 mm/m
Perpendicularity: 1.0 mm/m
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
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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.
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PRODUCT PORTFOLIO

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>
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<td>30 m²</td>
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<td></td>
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<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.
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HASSLACHER NORICA TIMBER’S PRODUCT PORTFOLIO

Sawn timber

Surfaced timber

Structural finger jointed solid timber & GLT®

Glued solid timber Duo/Trio

Glued laminated timber

Solid timber ceiling systems

Cross laminated timber

Glued laminated timber – special components

Special products

Pellets

Formwork panels

Pallets & packaging solutions
From **wood to wonders.**