COMPRESSED LAMINATED WOOD
dehonit® Compressed Laminated Wood is manufactured to comply with DIN 7707 and consists of selected rotary cut beech veneers coated or impregnated with a synthetic resin. Following the application of the resin the veneers are assembled into a pack and pressed under high pressure and temperature to form a unique laminate material with excellent technical properties.

**Characteristic Features of dehonit® Compressed Laminated Wood.**

The mechanical properties of dehonit® are comparable with plastics such as Grey Fibre (GFK), laminated plastic (Hgw, Hp) and Aluminium. The main features are:

- Low weight
- High compressive strength
- High modulus of elasticity in flexure
- Temperature stability
- Low coefficient of linear expansion
- Anti-static
- Low thermal conductivity
- High wear resistance
- Corrosion and chemical resistant
- Resistant to petrol, oil and lubricants
- Low coefficient of friction
- Good electrical insulation
- Water resistant

Our plant is equipped with modern 5 axis CNC machines to produce finished parts in accordance with customers drawings and specifications. We have an experienced team of technicians and engineers at our disposal to assist you in solving any technical and design issues. We have been producing and machining dehonit® for in excess of fifty years and our plant uses the latest production techniques. We are certified to ISO 9001:2000 to ensure high quality products and excellent workmanship. Our application engineers will be pleased to advise you on any technical or design problems that you may encounter. Please do not hesitate to contact us.
**Innovation and Application**

**Typical fields of application for dehonit® Compressed Laminated Wood are**
- Foundry moulding plates and patterns
- Tooling for forming sheet steel and aluminium in the aircraft and aerospace industry
- Machine beds for wood working machinery
- Conveyor belt supports
- Aeronautical applications
- Neutron shielding material for the nuclear industry
- Magnetic field shielding in fusion technology
- Underbody protection for race cars
- Thermal insulation in cryogenic applications
- Tank supports in the ship building industry
- Workpiece supports for robotic manufacturing in the automotive industry
- Insulated fishplates
- Ballistic applications

**dehonit® Compressed Laminated Wood** can be sawn, planed, milled, drilled, sanded and turned on a lathe. The material can also be bonded together to form large blocks, polished, varnished and even tapped to accept machined threads.

- Conveyors belts in the automotive industry
- Moulding plates in automatic moulding machines
- Tooling for forming metal parts in the aircraft industry
- Workpiece supports

**dehonit® in the LNG and LPG markets**

**dehonit®** has been successfully used in the cryogenic field for pipe supports and tank supports across the world. Our customers are consulting engineers, construction companies and shipbuilders.

- Moveable bearing
- Fixed bearing
Quality and Reliability

dehonit® wear strips are used in sheet metal mills as guides reducing costs considerably as they last 10 to 30 times longer than conventional hardwood strips.

dehonit® wear strips ensure excellent, smooth and secure guiding of the sheet metal during the cold rolling process.

Our product range:
dehonit® semi finished products are available in the following sizes

Standard sizes: 1.000 x 1.000 mm
               2.000 x 1.000 mm

Standard thickness: 15 - 120 mm

Maximum sizes: 2.900 x 2.900 mm
                4.360 x 600 mm
                3.000 x 1.600 mm
                10.000 x 500 mm

The maximum size is dependant on the material grade.
Minimum thickness 6 mm. Special sizes are available on request.

We manufacture fully machined wear strips in accordance with customers drawings and specifications.

dehonit® wear strips ensure excellent, smooth and secure guiding of the sheet metal during the cold rolling process.

dehonit® in sewage treatment plants
dehonit® for benches
dehonit® for pianos
dehonit® textile conveying belts
## Technical data for dehonit® - Compressed Laminated Wood

### Material grades for mechanical work

<table>
<thead>
<tr>
<th>Quality</th>
<th>A 840</th>
<th>B 140</th>
<th>B 240</th>
<th>B 340</th>
<th>B840</th>
<th>B335-1</th>
<th>B 735-1</th>
<th>E 730-1</th>
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</thead>
<tbody>
<tr>
<td>DIN 7707</td>
<td>KP20 216</td>
<td>KP20 226</td>
<td>KP20 226</td>
<td>KP20 226</td>
<td>KP20 226</td>
<td>KP20 227</td>
<td>KP20 227</td>
<td>KP20 215</td>
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</table>

### Direction of laminations

<table>
<thead>
<tr>
<th>Property</th>
<th>DIN 53 479</th>
<th>1,40</th>
<th>1,40</th>
<th>1,40</th>
<th>1,40</th>
<th>1,35</th>
<th>1,35</th>
<th>1,30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific weight (g/cm³)</td>
<td>DIN 53 452</td>
<td>240</td>
<td>180</td>
<td>174</td>
<td>170</td>
<td>155</td>
<td>150</td>
<td>140</td>
</tr>
<tr>
<td>Flexural strength (N/mm²)</td>
<td>DIN 53 452</td>
<td>22.000</td>
<td>16.000</td>
<td>15.000</td>
<td>15.000</td>
<td>14.000</td>
<td>16.000</td>
<td>15.000</td>
</tr>
<tr>
<td>Module of elasticity in flexure (N/mm²)</td>
<td>DIN 53 454</td>
<td>125</td>
<td>280</td>
<td>250</td>
<td>240</td>
<td>230</td>
<td>250</td>
<td>240</td>
</tr>
<tr>
<td>Compressive strength (N/mm²)</td>
<td>DIN 53 453</td>
<td>61</td>
<td>41</td>
<td>40</td>
<td>40</td>
<td>36</td>
<td>26</td>
<td>28</td>
</tr>
<tr>
<td>Impact resistance (kJ/m²)</td>
<td>DIN 53 453</td>
<td>60</td>
<td>39</td>
<td>37</td>
<td>35</td>
<td>34</td>
<td>15</td>
<td>18</td>
</tr>
<tr>
<td>Impact resistance with slot (kJ/m²)</td>
<td>DIN 53 453</td>
<td>52</td>
<td>21</td>
<td>20</td>
<td>18</td>
<td>15</td>
<td>13</td>
<td>20</td>
</tr>
<tr>
<td>Tensile strength (N/mm²)</td>
<td>DIN 53 455</td>
<td>208</td>
<td>156</td>
<td>144</td>
<td>135</td>
<td>124</td>
<td>89</td>
<td>85</td>
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<tr>
<td>Thermal conductivity at 20°C (W/(m·K))</td>
<td>DIN 52 612</td>
<td>0,25</td>
<td>0,25</td>
<td>0,25</td>
<td>0,25</td>
<td>0,25</td>
<td>0,30</td>
<td>0,30</td>
</tr>
<tr>
<td>Coefficient of linear expansion (1/K)</td>
<td>DIN 53 495</td>
<td>8 x 10⁻⁴</td>
<td>8 x 10⁻⁴</td>
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<td>8 x 10⁻⁴</td>
</tr>
<tr>
<td>Water absorption %</td>
<td>DIN 53 495</td>
<td>5</td>
<td>2,5</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>0,7</td>
<td>0,7</td>
</tr>
</tbody>
</table>

The above values are mean test results. | perpendicular to laminae | parallel to laminae |

### Different material grades are available on request.

### Temperature stability:

The temperature range of dehonit® Compressed Laminated Wood is from -200 to +90°C. Stability increases at temperatures below zero.

### Chemical stability:

dehonit® Compressed Laminated Wood is largely resistant to oil, weak acids and alkaline solutions. Vacuum impregnated material is resistant to the permanent presence of moisture.
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Do you require further information on dehoplast products?
All you have to do is to copy this slip, mark with a cross the product range in question, enter your address and send this on our service fax number ++ 49 2723 772 152.

Compressed laminated wood
Kunstharzpressholz nach DIN 7707
Bois comprimé à résine synthétique

Sliding rails and profiles
Gleitleisten und Profile
Glissières et profilés

Accessories for conveyor systems
Zubehörteile für Förderanlagen
Accessoires pour convoyeurs

Semi-finished products
Halbzeuge
Semi-produits

Your address/Contact person
Comments