Kerto® LVL L-panel combines excellent technical performance with light weight and dimensional stability. The panel is designed for both horizontal and vertical use in light-duty and non-load bearing applications. Use of large L-panel sizes ensures material efficiency and minimizes installation time.

Kerto® LVL L-panel is made of 3 mm thick light-weight softwood veneers. Approximately 20% of the veneers are oriented in crosswise direction. The veneers are bonded with weather- and boil-resistant phenol formaldehyde adhesive. L-panel is a light-weight product with good strength properties. Crosswise veneers provide excellent dimensional stability and enhances the transverse strength and stiffness of the panel.

L-panel is an ideal material for light-duty and non-load-bearing applications including wall panels, ceiling panels, furniture, packaging, doors and windows.

**Main applications**

**Structural applications:**
- Components for light-duty or non-load-bearing applications
- Panel product for interior ceilings and floors

**Industrial applications:**
- Doors, windows, furniture and packaging
- Concrete formwork

**Major advantages**

- Good strength-to-weight ratio
- Large light-weight panel product
- Dimensional stability improved against warp and twist
- Great workability and quick to install
- Easy to fasten, nail and drill
- Ensures material efficiency with customised product dimensions
- Large panels up to 2,500 mm wide, 20 m long
- Up to 10% better thermal conductivity (λ-value) than standard Kerto LVL
- Made of sustainable Nordic Wood and PEFC certified
- Environmentally friendly
- Kerto LVL (1 m³) contains the stored carbon equivalent to 789 kg CO₂
Formaldehyde emissions

Determined according to EN 717-1, the formaldehyde emitted by Kerto LVL falls far below the Class E1 requirement of ≤ 0.100 ppm and fulfils also the most stringent requirements in the world (≤ 0.030 ppm). The formaldehyde emission of Kerto LVL is app. 0.018 ppm.

Further processing

L-panel can be further processed in various ways according to end-use requirements.

Sanding
- Optical sanding, 1 or 2 sided
- Calibrated sanding, 2 sided only

Edge profiling
- Tongue and groove, half-lap

Machining
- Machined to special size and shape, notches and holes

Temporary weather protection
- up to width 610 mm
- WeatherGuard

Treatment against mould
- MouldGuard

Special surface veneer grades available on request

Packing

Products are packed in moisture-resistant plastic wrapping or packing hoods. Packages can be stored outside only temporarily. Longer-term storage is recommended under cover in dry conditions.

On request the products can be delivered without plastic wrapping. In this case products shall not be exposed to weather.

Further information

- Kerto LVL L-panel Declaration of Performance (www.metsawood.com/dop)
- Kerto Manual (www.metsawood.com/kertomanual)
- Kerto for Load Bearing Applications brochure

Approvals and design properties

Kerto LVL L-panel is CE marked and the design properties are determined according to standard EN 14374. The design properties given in the Declaration of Performance (DoP) are to be used for structural calculations with EN 1995 (Eurocode 5). The DoP documents can be downloaded from www.metsawood.com/dop.

L-panel has also national approval in Germany.

Kerto production is managed according to the principles of standard ISO 9001. The quality and the constancy of performance of the product is controlled by regular third party inspections and audits.

Overall dimensions

<table>
<thead>
<tr>
<th>SIZE</th>
<th>MINIMUM (mm)</th>
<th>MAXIMUM (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>21</td>
<td>69</td>
</tr>
<tr>
<td>Width/height</td>
<td>200</td>
<td>2,500</td>
</tr>
<tr>
<td>Length</td>
<td>2,000*</td>
<td>25,000**</td>
</tr>
</tbody>
</table>

* Short lengths ( < 2,000 mm) and widths under 200 mm are available on request.
** For products wider than 1,830 mm, maximum length is 20,000 mm.

Tolerances

<table>
<thead>
<tr>
<th>SIZE (mm)</th>
<th>MINIMUM (mm)</th>
<th>MAXIMUM (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>≤ 27 mm</td>
<td>-1.0 mm</td>
<td>+1.0 mm</td>
</tr>
<tr>
<td>27 &lt; t ≤ 57 mm</td>
<td>-2.0 mm</td>
<td>+2.0 mm</td>
</tr>
<tr>
<td>t &gt; 57 mm</td>
<td>-3.0 mm</td>
<td>+3.0 mm</td>
</tr>
<tr>
<td>Width/height</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 400</td>
<td>-2.0 mm</td>
<td>+2.0 mm</td>
</tr>
<tr>
<td>≥ 400</td>
<td>-0.5 %</td>
<td>+0.5 %</td>
</tr>
<tr>
<td>Length</td>
<td>-5.0 mm</td>
<td>+5.0 mm</td>
</tr>
</tbody>
</table>

In moisture content of 10 ± 2 %. Special tolerances are available on request.

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