Kerto® LVL Q-panel is a load-bearing and dimensionally stable product that can be used in both horizontal and vertical structures. Q-panel can be used in the most demanding applications. Use of large Q-panel ensures material efficiency and minimizes installation time.

Kerto LVL Q-panel is made of 3 mm thick strength graded softwood veneers of which approximately 20% are oriented in crosswise direction. The veneers are bonded with weather- and boil-resistant phenol formaldehyde adhesive. Q-panel has outstanding strength-to-weight ratio. Crosswise veneers ensure excellent dimensional stability and enhance the transverse strength and stiffness of the panel.

Q-panel is an ideal material for load-bearing applications including floor, wall and roof elements due to its stiffness, strength properties and light weight. It can be used in both horizontal and vertical applications.

**Main applications**

**Structural applications:**
- Panel product for roof, floor and wall constructions
- High and slender beams
- Headers and lintels
- Portal frames

**Industrial applications:**
- Free shaped beams and panels (CNC machining)
- Components for prefabricated roof, floor and wall elements and modules
- Doors and windows
- Concrete formwork

**Major advantages**
- Strong and rigid
- Excellent strength-to-weight ratio
- 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
- High and slender beams for energy efficient constructions
- Large panels up to 2,500 mm wide, 20 m long
- Easy to design with free Finnwood software
- Made of sustainable Nordic Wood and PEFC certified
- Environmentally friendly
- Kerto LVL (1 m³) contains the stored carbon equivalent to 789 kg CO₂
## 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></td>
<td></td>
</tr>
<tr>
<td>All</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.

## 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 also fulfils the most stringent requirements in the world (≤ 0.030 ppm). The formaldehyde emission of Kerto LVL is approximately 0.018 ppm.

## Further processing

Kerto LVL Q-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

### Multiple-gluing (GLVL)
- not CE marked
- Heavy duty beams from 78 mm up to 144 mm, higher beams available on request

### Temporary weather protection
- up to width 610 mm
- WeatherGuard

### Treatment against mould
- MouldGuard

### Treatment against termites (Australia only)
- H2S treatment

## 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.

In this case products shall not be exposed to weather.

## Further information

- Kerto LVL Q-panel Declaration of Performance (www.metsawood.com/dop)
- Eurofins product certificate EUFI29-20000676-C
- Kerto Manual (www.metsawood.com/kertomanual)
- Kerto for Load Bearing Applications brochure

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