X-FIX | THE TIMBER-TO-TIMBER CONNECTION SYSTEM

THE NEW GENERATION OF CONNECTION SYSTEMS.
X-FIX L
TIMBER-TO-TIMBER CONNECTION
FOR CROSS LAMINATED TIMBER WALL ELEMENTS

The X-fix L connects cross laminated timber wall elements very quickly and efficiently. The patented dovetail-shaped coupling strip is wedge-shaped and acts as a self-tightening connection.

ADVANTAGES
- Easily installable timber-to-timber connection
- Assembly from inside the room is possible
- Quick fixation with simultaneous tightening and without the need for additional tools
- Self-tensioning connector
- High mechanical properties through use of high-quality beech or birch plywood
- No steel in the connection

AREAS OF APPLICATION
- Connection of cross laminated timber wall elements
- Connection in form of T- and L-joints

LOAD CARRYING CAPACITY AND STIFFNESS
OF THE X-FIX L PER RUNNING METER
- X-fix: beech or birch plywood
- Cross laminated timber: HASSLACHER CROSS LAMINATED TIMBER
  Panel thicknesses: 100 mm, 120 mm, 140 mm | 5-layered

<table>
<thead>
<tr>
<th>LOADING TYPE/ APPLICATION</th>
<th>LOAD CARRYING CAPACITY Rₚ [kN/m]</th>
<th>STIFFNESS Kₛₑ [kN/mm/m]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile-T-Joint</td>
<td>15.0</td>
<td>14.5</td>
</tr>
<tr>
<td>Tensile-corner-joint 45 °</td>
<td>14.0</td>
<td>8.3</td>
</tr>
<tr>
<td>Shear-corner-joint 45 °</td>
<td>8.0</td>
<td>6.5</td>
</tr>
</tbody>
</table>
**X-FIX C**

**TIMBER-TO-TIMBER CONNECTION**

**FOR CROSS LAMINATED TIMBER CEILING ELEMENTS**

The X-fix C connects cross laminated timber floor elements quickly, easily and safely. The patented dovetail-shaped coupling strip is wedge-shaped in order to enable a fast assembly by engaging the elements. Thereby, form and traction closure is achieved at the same time.

**ADVANTAGES**
- Easily installable timber-to-timber connection
- Quick fixation with simultaneous tightening and without the need for additional tools
- Self-tensioning connector
- High mechanical properties through use of high-quality beech or birch plywood
- No steel in the connection
- Step and spline joints are eliminated

**AREAS OF APPLICATION**
- Connection of cross laminated timber floor panels
- Connection to cross laminated wall elements exposed to high shear forces

**PRODUKTNORM**
ETA-18/0245

**LOAD CARRYING CAPACITY AND STIFFNESS OF THE X-FIX C PER CONNECTOR**
- X-fix: beech or birch plywood
- HASSLACHER CROSS LAMINATED TIMBER with a minimum thickness of: X-fix Cm 120 mm
  X-fix Cs 60 mm

<table>
<thead>
<tr>
<th>LOADING TYPE / APPLICATION</th>
<th>LOAD CARRYING CAPACITY RK [KN]</th>
<th>STIFFNESS KSER [KN/MM]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tension</td>
<td>X-fix Cm 28.0</td>
<td>20.0</td>
</tr>
<tr>
<td></td>
<td>X-fix Cs 14.0</td>
<td>20.0</td>
</tr>
<tr>
<td>Shear</td>
<td>X-fix Cm 28.0</td>
<td>20.0</td>
</tr>
<tr>
<td></td>
<td>X-fix Cs 14.0</td>
<td>20.0</td>
</tr>
</tbody>
</table>

**THE X-FIX PRODUCT FAMILY: RECOMMENDATIONS FOR DESIGN AND ASSEMBLY**
- Both X-fix C and X-fix L are precision-made timber-to-timber connectors and should be kept dry during storage and use.
- For design ETA-18/0245 should be used.
- In addition to the bearing capacity, the deformations must also be considered in the design process.
- Damage caused by an improper application of large loads should be avoided as they reduce the load capacity of the connectors.
- Please read and consider the provided assembly instructions.

hasslacher.com
From wood to wonders.

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