CROSS-LAMINATED TIMBER
AN OVERVIEW

What is CLT?
Composition

Size Availability

Related Products
Fastened with:
- Wooden dowels (Thoma Holz, Appenzellerholz, etc.)
- Nails (MHM)

History
- Initial Development
- Optimization
  - Austria (1996)
Countries leading in the use of CLT
Austria, Germany, Switzerland, Sweden, Norway, United Kingdom

Manufacturers

Steps 1 and 2

Steps 3 and 4
Applications

Reference: Nordic
Product Manufacturing Applications Connections Advantages

Reference: FP Innovations
Product Manufacturing Applications Connections Advantages

As....

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Advantages

Sustainable alternative solution to concrete and steel:

- Lightweight
- Strong
- Consistent
- Tolerances
- Easier for other trades

Reference: FP Innovations

Advantages

- High strength
- Seismic Resistance
- Exceptional fire performance
- Great thermal properties
- Vapour/air barrier

Reference: TRADA

Table 1: Span and height capabilities of maintenance of structural materials in residential buildings

<table>
<thead>
<tr>
<th>Material</th>
<th>Peak span capability</th>
<th>Height capability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>500 mm</td>
<td>100 cycles</td>
</tr>
<tr>
<td>Concrete</td>
<td>500 mm</td>
<td>100 cycles</td>
</tr>
<tr>
<td>Masonry</td>
<td>200 mm</td>
<td>50 cycles</td>
</tr>
<tr>
<td>Panel/slatter frame</td>
<td>100 mm</td>
<td>25 cycles</td>
</tr>
</tbody>
</table>

43 44 45 46 47 48

Advantages
Potential

- Address code issues
- Maximize the advantages
- Benefit from versatility