New Opportunities for the New Zealand Building Industry

Cross Laminated Timber in NZ

What is Cross Laminated Timber?

Layers of timber (lamella) at 90 degrees to one another

3, 5 or 7 layers

Vacuum Pressed and Glued (Polyurethane)
XLam CLT Panels

Panels  15 metres x 3.2 metres
Thickness 66mm to 300mm
Douglas Fir, Pinus Radiata
When? January/February 2012
Price? Competitive

XLam CLT Panels

Performance

Recommended Spans  (Preliminary only)

<table>
<thead>
<tr>
<th>Thickness</th>
<th>66</th>
<th>105</th>
<th>149</th>
<th>199</th>
<th>235</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layers</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>1.5Kpa*</td>
<td>3</td>
<td>4.5</td>
<td>5.55</td>
<td>7.3</td>
<td>8.4</td>
</tr>
<tr>
<td>5Kpa</td>
<td>2.1</td>
<td>3.3</td>
<td>4.1</td>
<td>5.3</td>
<td>6.2</td>
</tr>
<tr>
<td>Roof **</td>
<td>4</td>
<td>5.7</td>
<td>7</td>
<td>8.8</td>
<td>9.8</td>
</tr>
</tbody>
</table>

Insulation  100mm R= 1
Treated - as necessary
Fire - Char Rate .7mm
Acoustics 145mm 38dB
The XLam Advantage

Accuracy in Manufacture Means Accuracy and Speed in Building

Floors, Walls and Roofs

Commercial, Residential and Industrial

Simpler

Safer

Build Better Buildings

Capture the advantages of Prebrication

Partial Prefabrication - Complete Prefabrication

Get the efficiency of panelised construction with large panels

Simplify the Building Process, Build Faster, Build Better Buildings

Replace steel and concrete in construction

(Weight, Carbon Store, Thermal Mass, Sustainable Resource)