Type IV Non-prescriptive Alternatives

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Refresher:

**Code Modification**

Strict letter of the code is impractical and the modification is in compliance with the intent and purpose of this code.

**Alternate Materials, Design, and Methods of Construction and Equipment (AM&Ms)**

The proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of.
Mass Timber Construction – How

<table>
<thead>
<tr>
<th>Test</th>
<th>Description</th>
<th>Date</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td>All mass timber surfaces protected with 2 layers of 5/8” Type X GWB</td>
<td>5/23/17</td>
<td>3 hours</td>
</tr>
<tr>
<td>Test 2</td>
<td>30% of CLT ceiling area in living room and bedroom exposed</td>
<td>5/31/17</td>
<td>4 hours</td>
</tr>
<tr>
<td>Test 3</td>
<td>Two opposing CLT walls exposed – one in bedroom and one in living room (there is a partition wall)</td>
<td>6/20/17</td>
<td>4 hours</td>
</tr>
<tr>
<td>Test 4</td>
<td>All mass timber surfaces fully exposed in bedroom and living room. Sprinklered – normal activation</td>
<td>6/27/17</td>
<td>6 minutes</td>
</tr>
<tr>
<td>Test 5</td>
<td>All mass timber surfaces fully exposed in bedroom and living room (except bathroom). Sprinklered – 20 min delayed activation</td>
<td>6/29/17</td>
<td>30 minutes</td>
</tr>
</tbody>
</table>

Ignition  Flashover  Decay Phase
234 Grand by TVA Arch VS South Landing by Katerra
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