Qualified Wood I-Joists
With Low Formaldehyde Emissions

Product: Wood I-Joists Qualified for Low Formaldehyde Emissions

1. Basis of the product report:
   - APA Custom Product Specification E-730
   - ASTM D5055-13e1, ASTM D5055-13, D5055-09, and D5055-05 recognized by the 2018 International Building Code (IBC) and International Residential Code (IRC), 2015 IBC and IRC, 2012 IBC and IRC, and 2009 IBC and IRC, respectively
   - APA Test Reports (see Table 2) and other qualification data

2. Product description:
   Wood I-joists are made with either solid sawn or LVL flanges and OSB webs of various species and classifications in accordance with the in-plant manufacturing standard approved by APA. Wood I-joists are available in a variety of depths and sizes.

3. Formaldehyde emission level:
   The G-5 rating is a formaldehyde emission level as defined in Table 1. Wood I-Joists have been qualified for low formaldehyde emissions following the principles of ISO 12460-4 and AS/NZS 4357.4:2005, and the performance requirements of ASTM D 5055. Wood I-joists meeting the formaldehyde emission level specified in Table 1 in accordance with the APA Custom Product Specification E-730 are listed in Table 2.

   Table 1. Upper formaldehyde emission level for G-5 rating following the principles of ISO 12460-4 and AS/NZS 4357.4:2005(a)

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Average</td>
<td>0.20 mg/per liter</td>
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<tr>
<td>Individual specimen</td>
<td>0.30 mg/per liter</td>
</tr>
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</table>

(a) I-joists are outside the scope or exempt from CARB ATCM for formaldehyde from composite wood products, EPA’s TSCA Title VI standard for formaldehyde from composite wood, HUD regulation for formaldehyde and CAN/CSA-O160 for formaldehyde from composite wood products. The tabulated formaldehyde emission level in the G-5 standard is more stringent than the E0 of AS/NZS 4357.4:2005 and F★★★★ of JAS Standard for Laminated Veneer Lumber, MAFF Notification 701.

4. Limitations:
   a) Wood I-joists shall be designed and installed in accordance with the applicable provisions of the code and the recommendations provided by the manufacturers and APA Design/Construction Guide: Engineered Wood Construction Guide, Form E30 (www.apawood.org/resource-library).
   b) Wood I-joists are limited to dry service conditions that result in the average equilibrium moisture content of sawn lumber of less than 16 percent.
   c) Wood I-joists are produced by the manufacturing facilities shown in Table 2 under a quality assurance program audited by APA in accordance with the APA Custom Product Specification E-730.
   d) This report is subject to re-examination in one year.
5. Identification:
Wood I-joists are identified by a label bearing the manufacturer's name and/or trademark, the APA assigned plant number, the I-joist series and depth, the APA logo, the product report number PR-E730, and the formaldehyde emission rating G-5.
### Table 2. Qualified Manufacturing Facilities for Low Formaldehyde Emission

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Location</th>
<th>Applicable Joist Series&lt;sup&gt;(a)&lt;/sup&gt;</th>
<th>Mill Number</th>
<th>APA Test Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eacom Timber Corporation</td>
<td>Sault Ste. Marie, ON</td>
<td>PJI 40, PJI 60, PJI 80, and PJI 90</td>
<td>1058</td>
<td>T2011Q-17</td>
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<tr>
<td>Boise Cascade Company</td>
<td>2) White City, OR</td>
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<tr>
<td>Nordic Structures</td>
<td>Chibougamau, QC</td>
<td>NI 20, NI 40, NI 40x, NI 60, NI 70, NI 80, NI 80x, NI 90, and NI 90x</td>
<td>1052</td>
<td>T2013Q-11</td>
</tr>
<tr>
<td>Pacific Woodtech Corporation</td>
<td>Burlington, WA</td>
<td>PWI 20, PWI 30, PWI 40, PWI 45, PWI 47, PWI 50, PWI 60, PWI 70, PWI 77, PWI 77w, PWI 90, SJ 40, SJ 44, SJ 51, SJ 58, SJ 70, SJ 70WEB29, SJ 90, SJ 95, SJ 40 H2S, SJ 44 H2S, SJ 51 H2S, SJ 58 H2S, SJ 70 H2S, SJ 70WEB29 H2S, SJ 90 H2S, and SJ 95 H2S</td>
<td>1048</td>
<td>T2010Q-09</td>
</tr>
<tr>
<td>Roseburg Forest Products Company</td>
<td>Riddle, OR</td>
<td>RFPI 20, RFPI 40, RFPI 400, RFPI 70, RFPI 90, RFPI 700, and RFPI 900</td>
<td>1053</td>
<td>T2012Q-43</td>
</tr>
</tbody>
</table>

<sup>(a)</sup> I-joist series listed in this table are recognized in an APA Product Report or ICC-ES evaluation report, or are available from the manufacturer.
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