Qualified Wood Structural Panels
With Low Formaldehyde Emissions

Product: Wood Structural Panels Qualified for Low Formaldehyde Emissions

1. Basis of the product report:
   - APA Custom Product Specification E-710
   - ISO 12460-4, Wood-Based Panels -- Determination of Formaldehyde Release, Part 4: Desiccator Method
   - Voluntary Product Standard for Structural Plywood, PS 1
   - Performance Standard for Wood-Based Structural-Use Panels, PS 2
   - Construction Sheathing, CAN/CSA O325
   - Performance Standards and Qualification Policy for Structural-Use Panels, APA PRP-108
   - Performance Standard for APA EWS Rim Boards, APA PRR-401
   - Performance Standard for Engineered Wood Rim Boards, ANSI/APA PRR 410
   - Standard for Performance Rated Engineered Wood Siding, ANSI/APA PRP 210
   - APA Reports (see Table 2) and other qualification data

2. Product description:
   Wood structural panels are made with either veneers or strands of various species and classifications in accordance with the in-plant manufacturing standard approved by APA. Wood structural panels are available in a variety of thicknesses and sizes.

3. Formaldehyde emission level:
   The G5 rating is a formaldehyde emission level as defined in Table 1. Wood structural panels labeled as G5 have been qualified for low formaldehyde emissions based on ISO 12460-4 and the bond performance requirements of one of the following product standards: PS 2, PS 1, CAN/CSA O325, ANSI/APA PRP 210, APA PRR-401, ANSI/APA PRR 410, or APA PRP-108. Wood structural panels meeting the formaldehyde emission level specified in Table 1 in accordance with the APA Custom Product Specification E-710 are listed in Table 2.

   Table 1. Upper formaldehyde emission level for G5 rating based on ISO 12460-4\(^{(a)}\)

   | Average  | 0.20 mg/l
   | Individual specimen | 0.30 mg/l

\(^{(a)}\) Testing has shown that APA certified products that meet these G5 levels also met the level specified in the HUD regulation. Wood structural panels meeting PS 1, PS 2, CAN/CSA O325, ANSI/APA PRP 210, APA PRR-401, ANSI/APA PRR 410, or APA PRP-108 are not within the scope of the CARB rule.

4. Limitations:
   a) Wood structural panels 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 structural panels trademarked as Exposure 1 are limited to dry service conditions that result in the average moisture content of sawn lumber of less than 16 percent.
   c) Wood structural panels 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-710.
   d) This report is subject to re-examination in one year.
5. Identification:
Wood structural panels are identified by a label bearing the manufacturer's name and/or trademark, the APA assigned plant number, the product standard and thickness, the bond classification, the APA logo, the product report number PR-E710, and the formaldehyde emission rating G5.

Table 2. Qualified Manufacturing Facilities for Low Formaldehyde Emission

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Location</th>
<th>Mill Number</th>
<th>APA Test Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Norbord</td>
<td>100 Mile House, BC, Canada</td>
<td>445</td>
<td>T2011Q-11</td>
</tr>
<tr>
<td>Norbord</td>
<td>Barwick, ON, Canada</td>
<td>498</td>
<td>T2011Q-74</td>
</tr>
<tr>
<td>Norbord</td>
<td>Grande Prairie, AB, Canada</td>
<td>454</td>
<td>T2011Q-12</td>
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<tr>
<td>Norbord</td>
<td>High Level, AB, Canada</td>
<td>540</td>
<td>T2014P-34</td>
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<tr>
<td>Potlatch Corporation</td>
<td>St. Maries, ID</td>
<td>215</td>
<td>Q09Q-1</td>
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<tr>
<td>Roseburg Forest Products</td>
<td>Coquille, OR</td>
<td>367</td>
<td>T2016P-37</td>
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<td>Roseburg Forest Products</td>
<td>Dillard, OR</td>
<td>480</td>
<td>T2016P-26</td>
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<tr>
<td>Roseburg Forest Products</td>
<td>Riddle, OR</td>
<td>482</td>
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<td>Tolko Industries Ltd.</td>
<td>Meadow Lake, SK, Canada</td>
<td>492</td>
<td>Q08Q-6</td>
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<td>Tolko Industries Ltd.</td>
<td>Slave Lake, AB, Canada</td>
<td>514</td>
<td>Q08Q-5</td>
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</tbody>
</table>
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APA – THE ENGINEERED WOOD ASSOCIATION
HEADQUARTERS
7011 So. 19th St. • Tacoma, Washington 98466
Phone: (253) 565-6600 • Fax: (253) 565-7265 • Internet Address: www.apawood.org

PRODUCT SUPPORT HELP DESK
(253) 620-7400 • E-mail Address: help@apawood.org

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