APA PRODUCT REPORT®

Qualified Wood I-Joists With Low Formaldehyde Emissions

PR-E730

Revised October 7, 2026

Product: Wood I-Joists Qualified for Low Formaldehyde Emissions

1. Basis of the product report:
   - APA Custom Product Specification E-730
   - Test method follows the principles of ISO 12460-4, Wood-Based Panels -- Determination of Formaldehyde Release, Part 4: Desiccator Method, AS/NZS 4357.0:2022, Structural Laminated Veneer Lumber, Part 0: Specifications, and AS/NZS 4357.4:2005 (R2016), Structural Laminated Veneer Lumber, Part 4: Determination of Formaldehyde Emissions
   - JAS 0701 Standard for Laminated Veneer Lumber
   - ASTM D5055-19e1, ASTM D5055-16, ASTM D5055-13e1, and D5055-13 recognized in the 2024 International Building Code (IBC) and International Residential Code (IRC), 2021 IBC and IRC, 2018 IBC and IRC, and 2015 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, and the performance requirements of ASTM D5055. 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[(a)]

Average	0.20 mg/per liter
Individual specimen	0.30 mg/per liter

   [(a)] Trademarked I-joists are outside the scope and are exempted from CARB ATCM, U.S. EPA's TSCA Title VI, CAN/CSA-O160, and Canada SOR/2021-148 for formaldehyde from composite wood products. The tabulated formaldehyde emission level in the G-5 standard is more stringent than the Super E_0 of AS/NZS 4357.0 and F☆☆☆☆ of JAS 0701.

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%.
   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.

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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

Manufacturer	Location	Applicable Joist Series[(a)]	Mill Number	APA Test Report[(b)]
Eacom Timber Corporation	Sault Ste. Marie, ON	PJI 40, PJI 60, PJI 65, PJI 80, and PJI 90	1058	T2011Q-17
Nordic Structures	Chibougamau, QC	NI 20, NI 40, NI 40x, NI 60, NI 70, NI 80, NI 80x, NI 90, and NI 90x	1052	T2013Q-11
PWT	Red Bluff, CA	LPI 18, LPI 18FB, LPI 20Plus, LPI 20FB, LPI 32Plus, LPI 42Plus, LPI 42FB, LPI 52Plus, LPI 36, LPI 56, LPI 450, LPI 530, LPI 53, LPI 70	1069	T2020P-10
Resolute Engineered Wood Larouche Inc.	Larouche, QC	LPI 18, LPI 18FB, LPI 20Plus, LPI 20FB, LPI 32Plus, LPI 42Plus, LPI 42FB, LPI 52Plus, LPI 36, LPI 56, LPI 450, LPI 530, LPI 53, LPI 70	1068	T2020P-10
Resolute Engineered Wood St. Prime Limited Partnership	St. Prime, QC	LPI 18, LPI 18FB, LPI 20Plus, LPI 20FB, LPI 32Plus, LPI 42Plus, LPI 42FB, LPI 52Plus, LPI 36, LPI 56, LPI 450, LPI 530, LPI 53, LPI 70	1077	T2020P-10
Roseburg Forest Products Company	Riddle, OR	RFPI 20, RFPI 40, RFPI 400, RFPI 70, RFPI 90, RFPI 700, and RFPI 900	1053	T2012Q-43

[(a)] 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.
[(b)] This product report is applicable to uncoated I-joists.
[(c)] Reports for the required periodic confirmation tests are not listed.

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