

Qualified Wood Structural Panels With Low Formaldehyde Emissions

PR-E710

Revised August 29, 2016

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 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

Manufacturer	Location	Mill Number	APA Test Report
Norbord	100 Mile House, BC, Canada	445	T2011Q-11
Norbord	Barwick, ON, Canada	498	T2011Q-74
Norbord	Grande Prairie, AB, Canada	454	T2011Q-12
Norbord	High Level, AB, Canada	540	T2014P-34
Potlatch Corporation	St. Maries, ID	215	Q09Q-1
Roseburg Forest Products	Coquille, OR	367	T2016P-37
Roseburg Forest Products	Dillard, OR	480	T2016P-26
Roseburg Forest Products	Riddle, OR	482	T2016P-18
Tolko Industries Ltd.	Meadow Lake, SK, Canada	492	Q08Q-6
Tolko Industries Ltd.	Slave Lake, AB, Canada	514	Q08Q-5

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