

Qualified OSB Facing Materials for Structural Insulated Panels

PR-N610

Revised September 6, 2018

Product: 7/16" OSB Panels Qualified for Use as Facing of Structural Insulated Panels

1. Basis of the product report:
 - 2018 and 2015 International Residential Code (IRC): Section R610 Structural Insulated Panel Wall Construction
 - 2012 IRC: Section R613 Structural Insulated Panel Wall Construction
 - Performance Standard for Wood-Based Structural-Use Panels, PS 2
 - ANSI/APA PRS 610.1-2013, Standard for Performance-Rated Structural Insulated Panels in Wall Applications, recognized in the 2018 IRC

2. Product description:

OSB panels of 7/16 inch in thickness produced by the manufacturers listed in this report have been qualified for use as facing of structural insulated panels (SIPs). In addition to the requirements for PS 2, the 7/16-inch OSB panels from the listed manufacturers meet the minimum properties specified in Tables R610.3.2 and R613.3.2 of the 2015 and 2012 IRC, respectively, and Table 2 of ANSI/APA PRS 610.1, as shown in Section 3 of this report. The panel properties are quality-controlled on an on-going basis.

3. Minimum panel properties:

The OSB panels from the listed manufacturers in this report meet the properties specified in Tables R610.3.2 and R613.3.2 of the 2015 and 2012 IRC, respectively, and Table 2 of ANSI/APA PRS 610.1, as shown in Table 1 below.

Table 1. Minimum Properties for Facing Materials Used for SIPs ^(a)

Thickness (in.)	Flatwise Stiffness ^(b) (lbf-in. ² /ft)		Flatwise Strength ^(c) (lbf-in./ft)		Tension ^(c) (lbf/ft)		Density ^(d) (pcf)
	Along	Across	Along	Across	Along	Across	
7/16	55,600	16,500	1,040	460	7,450	5,800	34

For SI: 1 lbf-in.²/ft = 9.415 x 10⁻⁶ kN-m²/m, 1 lbf-in./ft = 3.707 x 10⁻⁴ kN-m/m, 1 lbf/ft = 0.0146 N/mm, 1 pcf = 16.018 kg/m³

- ^(a) Tabulated values are test values, which are not intended for use in design.
- ^(b) Mean test value shall be in accordance with Section 7.6 of PS 2.
- ^(c) Characteristic test value (5th percentile with 75% confidence).
- ^(d) Mean density value shall be based on oven-dry weight and oven-dry volume in accordance with Method A of ASTM D2395.

4. Limitations:
 - a) The properties listed in Table 1 are minimum test values and relate only to the OSB facing of SIPs. Design values for SIPs shall be provided by the SIP manufacturer.
 - b) OSB panels listed in this report are produced by manufacturing facilities (as shown in Table 2) under a quality assurance program audited by APA.
 - c) This report is subject to re-examination in one year.
5. Identification:

OSB panels listed in this report are identified by a label bearing the manufacturer's name and/or trademark, the APA assigned plant number (as shown in Table 2), the product thickness, the Span Rating, the Exposure Rating, the APA logo, the report number PR-N610, and a means of identifying the date of manufacture.

Table 2. Qualified Manufacturers of 7/16-inch OSB Panels for Use as Facing of SIPs

Manufacturer	Location	Mill Number	APA Test Report
Norbord ^(a)	100 Mile House, BC, Canada	445	T2006P-86B, T2010P-07
Norbord ^(a)	Barwick, ON, Canada	498	T2009P-08, T2009P-09, T2010P-44
Norbord	Grand Prairie, AB, Canada	454	T2010P-30
Louisiana-Pacific Corporation	Sagola, MI	407	T2008P-96A, T2011P-41, T2011P-42
Tolko Industries Ltd.	High Prairie, AB, Canada	450	T2018P-32
Tolko Industries Ltd.	Meadow Lake, SK, Canada	492	T2008P-40A
Tolko Industries Ltd.	Slave Lake, AB, Canada	514	T2008P-78A

^(a) Products may be treated with *Borogard*® ZB (registered trademark of U.S. Borax; an EPA registered zinc borate preservative). See APA Product Report PR-N213.

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