

Qualified OSB Facing Materials for Structural Insulated Panels

PR-N610

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

1. Basis of the product report:
 - 2007 Supplement to the 2006 International Residential Code (IRC)
 - Performance Standard for Wood-Based Structural-Use Panels, PS 2
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 facers 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 Table R614.3.2 of the 2007 Supplement to the 2006 IRC as shown in Section 3 of this report. The panel properties are quality-controlled on an ongoing basis.
3. Minimum panel properties:

The OSB panels from the listed manufacturers in this report meet the properties specified in Table R614.3.2 of the 2007 Supplement to the 2006 IRC, 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 ^(b,d) (pcf)
	Along	Across	Along	Across	Along	Across	
7/16	54,700	27,100	950	870	6,800	6,500	35

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) Density shall be based on oven-dry weight and oven-dry volume.

4. Limitations:
 - a) The properties listed in Table 1 are minimum test values and relate only to the OSB facers for 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 control program audited by APA.
 - c) This report is subject to periodic review and reexamination.
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 N610, and a means of identifying the date of manufacture.

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

Manufacturer	Location	Mill Number	APA Test Report
Ainsworth Engineered, Canada LP	100 Mile House, BC, Canada	445	T2006P-86A
Ainsworth Engineered, (USA) LLC	Cook, MN	366	T2006P-28

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APA – THE ENGINEERED WOOD ASSOCIATION

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