

Norbord Proprietary OSB Facers for SIPs
Norbord Inc.

PR-N612

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Product: Norbord 7/16 Proprietary OSB Facers
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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
 - APA Reports T2010P-07 and T2010P-44, and other qualification data

2. Product description:
 Norbord proprietary OSB facers are 7/16 Performance Category panel sheathing that can be used as facers of structural insulated panels (SIPs) when manufactured to a proprietary mill specification documented in the in-plant manufacturing standard and approved by APA. In addition to the requirements for PS 2, the proprietary OSB facers meet the higher properties specified in Table R610.3.2 of the 2015 IRC, Table R613.3.2 of the 2012 IRC, and Table 2 of ANSI/APA PRS 610.1, as shown in Section 3 of this report. The proprietary OSB facers are also listed in APA Product Report PR-N610. Products may be treated with *Borogard*[®] ZB (registered trademark of U.S. Borax; an EPA registered zinc borate preservative), as recognized in APA Product Report PR-N213. The efficacy of the preservative treatment is outside the scope of this report and the APA certification program. The properties of the proprietary OSB facers are quality-controlled on an on-going basis.

3. Minimum panel properties:
 Norbord proprietary OSB facers meet the properties specified in Table 1.

Table 1. Minimum Properties for Norbord Proprietary OSB Facers ^(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	27,100	1,040	870	7,450	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) 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 related only to the Norbord proprietary OSB facers. Design values for SIPs shall be provided by the SIP manufacturer.

- b) Norbord proprietary OSB facers are limited to dry service conditions where the average equilibrium moisture content of sawn lumber is less than 16 percent.
 - c) Norbord proprietary OSB facers are produced by Norbord Inc. at the facilities in 100 Mile House, BC, and Barwick, ON, under a quality assurance program audited by APA. The efficacy of the preservative treatment is outside the scope of this report and the APA certification program.
 - d) This report is subject to re-examination in one year.
5. Identification:
Norbord proprietary OSB facers recognized in this report are identified by a label bearing the manufacturer's name and/or trademark (Norbord), the APA assigned plant number (445 for 100 Mile House, BC, and 498 for Barwick, ON), the product Performance Category (7/16), the Span Rating (24/16), the Exposure Rating, the APA logo, the report number PR-N612, and a means of identifying the date of manufacture.

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