

Tolko Proprietary OSB Facers for SIPs
Tolko Industries Ltd.

PR-N614
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Product: Tolko Proprietary OSB Facers
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1. Basis of the product report:
 - 2024, 2021, 2018, and 2015 International Residential Code (IRC): Section R610 Structural Insulated Panel Wall Construction
 - DOC PS 2 Performance Standard for Wood Structural Panels
 - ANSI/APA PRS 610.1-2023, Standard for Performance-Rated Structural Insulated Panels in Wall Applications, recognized in the 2024 IRC
 - APA Reports T2008P-40A, T2008P-78A, T2017P-44, T2018P-32, T2020P-01, T2020P-20, T2020P-33, T2020P-34A, T2020-38, and T2021P-26, and other qualification data

2. Product description:

Tolko proprietary OSB facers are 7/16, 19/32, and 23/32 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 or exceed the higher properties specified in Table 2 of ANSI/APA PRS 610.1 as referenced in the 2024, 2021, and 2018 IRC and Table R610.3.2 of the 2015 IRC. The proprietary OSB facers are also listed in APA Product Report PR-N610. Products may be treated with Nisus ZB-Shield[®] or Rio Tinto Borogard[®] ZB zinc borate. Both are EPA-registered zinc borate preservatives and are recognized in APA Product Report PR-N216. The efficacy of the preservative treatment is outside the scope of this report and the APA certification program. The properties of the Tolko proprietary OSB facers are quality-controlled on an on-going basis.

3. Minimum panel properties:

Tolko OSB facers meet the properties specified in Table 1.

Table 1. Minimum Properties for Tolko 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
19/32	161,000	51,000	1,780	980	10,500	6,500	35
23/32	265,000	106,000	2,770	1,800	10,500	8,000	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 Tolko proprietary OSB facers. Design values for SIPs shall be provided by the SIP manufacturer.
 - b) Tolko proprietary OSB facers are limited to dry service conditions where the average equilibrium moisture content of sawn lumber is less than 16%.
 - c) Tolko proprietary OSB facers are produced by Tolko Industries Ltd., High Prairie, Alberta, Meadow Lake Division in Meadow Lake, Saskatchewan, and Athabasca Division in Slave Lake, Alberta, under a quality assurance program audited by APA.
 - d) This report is subject to re-examination in one year.

5. Identification:

Tolko proprietary OSB facers recognized in this report are identified by a label bearing the manufacturer's name and/or trademark, the APA assigned plant number (450 for the High Prairie facility, 492 for the Meadow Lake facility, and 514 for the Slave Lake facility), the product Performance Category (7/16, 19/32, or 23/32), the Span Rating (24/16, 40/20, or 48/24), the Exposure Rating, the APA logo, the report numbers PR-N614, and a means of identifying the date of manufacture.

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