

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, 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 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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