

Tolko OSB Concrete Edge Form Tolko Industries Ltd.

PR-N411 Revised October 24, 2016

Products: Tolko OSB Concrete Forming Panels

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- 1. Basis of the product report:
 - ASTM D2718, Standard Test Methods for Structural Panels in Planar Shear (Rolling Shear)
 - ASTM D3043, Standard Test Methods for Structural Panels in Flexure
 - APA Report T2008P-72 and other qualification data
- 2. Product description:

Tolko oriented strand board (OSB) concrete edge form is made with strands of various species and strand classifications in accordance with the in-plant manufacturing standard approved by APA. Tolko OSB concrete edge form is edge sealed and available in 1-1/4 Performance Category and widths of 3-1/2 to 24 inches, 8-foot to 24-foot long. Additional product information is provided by the manufacturer.

3. Design properties:

Table 1 lists the allowable panel load capacities (based on the wet-use design capacities) in a format that is typical for concrete forming tables. Table 2 lists the allowable panel wet-use design capacities for the concrete forming panels.

4. Product installation:

The 1-1/4 Performance Category OSB concrete edge form recognized in this report shall be used in accordance with the allowable panel load capacities and allowable design capacities contained in Tables 1 and 2 of this report.

- 5. Limitations:
 - a) The 1-1/4 Performance Category OSB concrete edge form recognized in this report shall be designed in accordance with the applicable engineering practices using the allowable panel load capacities and allowable panel design capacities specified in this report, and the equations from APA Design/Construction Guide, *Concrete Forming*, Form V345 (<u>www.apawood.org/resource-library</u>).
 - b) The OSB product described in this report is intended for use in forming applications where appearance of the finished concrete is not important.
 - c) The 1-1/4 Performance Category OSB concrete edge form recognized in this report is produced by Tolko Industries Ltd., Athabasca Division, at the Slave Lake facility in Alberta, under a quality assurance program audited by APA.
 - d) This product is neither approved nor recommended for use as scaffold planking.
 - e) This report is subject to re-examination in one year.
- 6. Identification:

The 1-1/4 Performance Category OSB concrete edge form described in this report is identified by a label or stamp bearing the manufacturer's name and/or trademark (Tolko Industries Ltd.), the APA assigned plant number (514), the product grade and thickness, the APA logo, the report number PR-N411 and a means of identifying the date of manufacture.

Table 1. Allowable Stress Design (ASD) Load Capacities of the Tolko OSB Concrete Edge Form Panels^(a) (WET)

Panel	Support Spacing, in.	Allowable Load Capacities, lbf/ft ²			
Thickness, in.		Strength Axis Across Supports		Strength Axis Along Supports	
		L/360	L/270	L/360	L/270
1-1/4	4	3,000	3,000	2,900	2,900
	8	1,154	1,154	1,115	1,115
	12	714	714	690	690
	16	517	517	500	500
	19.2	424	424	393	393
	24	333	333	250	309
	30	263	263	63	83
	32	225	246	52	69
	36	197	209	36	48
	40	148	187	26	35
	48	102	136		23
	60	53	70		

^(a) Based on the wet design capacities shown in Table 2, including a duration-of-load factor of 1.25.

Table 2. Allowable Stress Design (ASD) Panel Design Capacities for Tolko OSB Concrete Edge Form (WET)

Panel Thickness.		Allowable Values ^(a)		
in.	Property	Strength Axis Across Supports	Strength Axis Parallel to Supports	
	Stiffness, EI, Ibf-in.²/ft	1,525,740	551,350	
1-1/4	Allowable Moment Capacity, F _b S, lbf-in./ft	2,650	1,500	
	Allowable Shear Capacity, Fslb/Q, lbf/ft	300	290	

^(a) Adjusted from characteristic value by a factor of safety and a reduction for moisture content.

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