APA PRODUCT REPORT®

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Tolko OSB Concrete Edge Form — PR-N412
Tolko Industries Ltd. — Revised October 24, 2016

Products: Tolko OSB Concrete Forming Panels
Tolko Industries Ltd., 12 km S. Highway 55 on Matchee-Neeb Road,
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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 Reports T2008P-22 and T2008P-82, and other qualification data

2. Product description:
   Tolko's Meadow Lake 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. Meadow Lake OSB concrete edge form is edge sealed and available in 1-1/8 and 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 1-1/8 and 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 1-1/8 and 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 (www.apawood.org/resource-library).
   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 1-1/8 and 1-1/4 Performance Category OSB concrete edge form recognized in this report is produced by Tolko Meadow Lake OSB at the Tolko facility in Meadow Lake, Saskatchewan 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 1-1/8 and 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 Meadow Lake OSB), the APA assigned plant number (492), the product grade and thickness, the APA logo, the report number PR-N412 and a means of identifying the date of manufacture.

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

Panel Thickness, in.	Support Spacing, in.	Allowable Load Capacities, lbf/ft^2			
		Strength Axis Across Supports		Strength Axis Along Supports	
		L/360	L/270	L/360	L/270
1-1/8	4	1,900	1,900	1,800	1,800
	8	731	731	692	692
	12	452	452	429	429
	16	328	328	310	310
	19.2	268	268	244	244
	24	211	211	168	192
	30	167	167	41	54
	32	156	156	33	44
	36	132	132	23	31
	40	111	118	--	23
	48	76	101	--	--
	60	39	51	--	--
1-1/4	4	2,300	2,300	2,300	2,300
	8	885	885	885	885
	12	548	548	548	548
	16	397	397	397	397
	19.2	325	325	312	312
	24	256	256	245	245
	30	202	202	61	82
	32	189	189	51	67
	36	160	160	35	47
	40	130	143	26	34
	48	90	120	--	23
	60	46	62	--	--

[(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 Meadow Lake OSB Concrete Edge Form (WET)

Panel Thickness, in.	Property	Allowable Values[(a)]	
		Strength Axis Across Supports	Strength Axis Parallel to Supports
1-1/8	Stiffness, EI, lbf-in.^{2}/ft	1,098,450	351,750
	Allowable Moment Capacity, F_bS, lbf-in./ft	2,050	1,050
	Allowable Shear Capacity, F_sIb/Q, lbf/ft	190	180
1-1/4	Stiffness, EI, lbf-in.^{2}/ft	1,338,850	541,350
	Allowable Moment Capacity, F_bS, lbf-in./ft	2,800	1,700
	Allowable Shear Capacity, F_sIb/Q, lbf/ft	230	230

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

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