

Norbord OSB Concrete Edge Form
Norbord Inc.

PR-N414

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Products: Norbord Engineered Strand Concrete Form Facers
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1. Basis of the product report:
 - ASTM D 2718, *Standard Test Methods for Structural Panels in Planar Shear (Rolling Shear)*
 - ASTM D 3043, *Standard Test Methods for Structural Panels in Flexure*
 - PS 2-18, *Performance Standard for Wood Structural Panels*
 - Panel Design Specification
 - APA Report T2020P-14 and other qualification data
2. Product description:

Norbord Engineered Strand Concrete Form Facers is made with strands of various species and strand classifications in accordance with the in-plant manufacturing standard approved by APA. Norbord Engineered Strand Concrete Form Facers is available in 1-1/4-inch (31.5-mm) thickness and common finished dimensions of 11-7/8 inches (302 mm) in width and 16 feet (4,877 mm) in length. Other dimensions with the minimum width of 3-1/2 inches (89 mm) may be available.
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-inch (31.5-mm) OSB concrete edge forms 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, and the recommendations from APA Design/Construction Guide, *Concrete Forming*, Form V345 (<https://www.apawood.org/resource-library>).
5. Limitations:
 - a) The 1-1/4-inch (31.5-mm) OSB concrete edge forms 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 (see link above).
 - b) The 1-1/4-inch (31.5-mm) OSB concrete edge forms recognized in this report are produced by Norbord Inc. at the Norbord facility in High Level, Alberta, Canada, under a quality assurance program audited by APA.
 - c) This report is subject to re-examination in one year.
6. Identification:

The 1-1/4-inch (31.5-mm) OSB concrete edge forms described in this report are identified by a label or stamp bearing the manufacturer's name and/or trademark, the APA assigned plant number (540), the product thickness, the APA logo, the report number PR-N414, and a means of identifying the date of manufacture.

Table 1. Allowable Stress Design (ASD) Load Capacities of the Norbord Engineered Strand Concrete Form Facers^(a) (WET)

Panel Thickness, in. (mm)	Support Spacing, in. (mm)	Allowable Load Capacities, lbf/ft ² (kN/m ²)							
		Strength Axis Across Supports				Strength Axis Along Supports			
		L/360		L/270		L/360		L/270	
1-1/4 (31.5)	8 (203)	1,345 (64.4)	1,345 (64.4)	1,230 (58.9)	1,230 (58.9)	1,230 (58.9)	1,230 (58.9)	1,230 (58.9)	1,230 (58.9)
	12 (305)	835 (40.0)	835 (40.0)	760 (36.4)	760 (36.4)	760 (36.4)	760 (36.4)	760 (36.4)	760 (36.4)
	16 (406)	605 (29.0)	605 (29.0)	530 (25.4)	530 (25.4)	530 (25.4)	530 (25.4)	530 (25.4)	530 (25.4)
	19.2 (488)	495 (23.7)	495 (23.7)	390 (18.7)	390 (18.7)	390 (18.7)	390 (18.7)	390 (18.7)	390 (18.7)
	24 (610)	390 (18.7)	390 (18.7)	220 (10.5)	220 (10.5)	220 (10.5)	220 (10.5)	220 (10.5)	220 (10.5)
	30 (762)	305 (14.6)	305 (14.6)	--	--	--	--	--	--
	32 (813)	280 (13.4)	285 (13.6)	--	--	--	--	--	--
	36 (914)	245 (11.7)	245 (11.7)	--	--	--	--	--	--
	40 (1016)	185 (8.9)	220 (10.5)	--	--	--	--	--	--
48 (1219)	125 (6.0)	160 (7.7)	--	--	--	--	--	--	

^(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 Norbord Engineered Strand Concrete Form Facers (WET)

Panel Thickness, in. (mm)	Property	Allowable Values ^(a)			
		Strength Axis Across Supports		Strength Axis Parallel to Supports	
1-1/4 (31.5)	Stiffness, EI, lbf-in. ² /ft (N-mm ² /mm)	1,890,000	(17,800,000)	480,000	(4,520,000)
	Allowable Moment Capacity, F _b S, lbf-in./ft (N-mm/mm)	3,050	(1,131)	1,550	(575)
	Allowable Shear Capacity, F _v lbf/Q, lbf/ft (N/mm)	350	(5.11)	320	(4.67)

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

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