

Blue Ribbon® Structural 1 oriented strand board (OSB) is a multi-layered structural panel product for residential and light commercial construction. As a Structural 1 panel, this line of Blue Ribbon products has enhanced strength and stiffness characteristics. Each panel is third-party certified for quality and is rated for Exposure 1 bond durability for protected applications and limited exposure during normal construction delays. Blue Ribbon OSB is edge coated to limit absorption and pick-up of moisture.

Available Sizes (Mills 451, 475, 500, 530)

Square Edge

3'-11⁷/₈" (1.216 m) x 7'-11⁷/₈" (2.435 m) – sized for 4' x 8'

Available Sizes (Mills 531, 532)

Square Edge

3'-11¹³/₁₆" (1.162 m) x 7'-11⁷/₈" (2.435 m) – sized for 4' x 8'

3'-11¹³/₁₆" (1.162 m) x 8'-11⁷/₈" (2.740 m) – sized for 4' x 9'

3'-11¹³/₁₆" (1.162 m) x 9'-11⁷/₈" (3.044 m) – sized for 4' x 10'

Tongue & Groove

3'-11¹/₂" (1.206 m) x 7'-11⁷/₈" (2.435 m) – sized for 4' x 8'

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Building Code Performance Categories, Panel Thickness

- 3/8 CAT – 0.354" (8.99 mm)
- 7/16 CAT – 0.418" (10.61 mm)
- 15/32 CAT – 0.451" (11.45 mm)
- 1/2 CAT – 0.483" (12.26mm)
- 19/32 CAT – 0.578" (14.68 mm)
- 23/32 CAT – 0.703" (17.85 mm)

Specifications

Length/Width Tolerance	± ¹ / ₁₆ " (±1.6 mm)
Straightness Tolerance	± ¹ / ₁₆ " (±1.6 mm)
Squareness Tolerance	± ¹ / ₈ " (±3.2 mm)
Testing Agency	APA®–The Engineered Wood Association

Classification **Exposure 1** – OSB suitable for uses not permanently exposed to the weather. Panels classified as Exposure 1 are intended to resist the effects of moisture on structural performance as may occur due to construction delays, or other conditions of similar severity.

Code Fire Classification Class III or C Flame Spread Rating 76-200, smoke-developed index <450

Building Code Compliance PS 2-10

Other Information

Forestry Certification Blue Ribbon OSB panels are made from wood sourced through a system that is third-party certified to the Sustainable Forestry Initiative® procurement standard.

Green Building Programs See our Blue Ribbon OSB *Sustainability Fact Sheet* available at www.builditbetter.com for more information on potential point contributions towards specific green building programs.



Product Warranty Blue Ribbon® OSB is covered by a Lifetime Limited Warranty. For terms and conditions, please refer to our Lifetime Limited Warranty available at www.builditbetter.com.

International Shipping To prevent the introduction and spread of plant pests, *ISPM 15: International Standards for Phytosanitary Measures*, requires that internationally shipped solid wood pallets be debarked, treated with heat or fumigated with methyl bromide, and marked with a seal of compliance. **Pallets made with engineered wood, including Blue Ribbon OSB, are exempt from ISPM 15 regulations.** This is because the process of manufacturing engineered wood destroys any live organisms in the wood. (Source: "Boxes, Crate and Reel Manufacturing," www.PerformancePanels.com)

Formaldehyde Emissions

Blue Ribbon OSB contains no added urea formaldehyde resins. PS 1 and PS 2 structural panels are exempt from testing by the California Air Resources Board (CARB) in the *Composite Wood Air Toxic Control Measure (ATCM)* and phenolic bonded structural panels are exempt from testing or monitoring by HUD in the *Manufactured Home Construction and Safety Standards*.

Allowable Shear (pounds per foot) for Horizontal APA Panel Diaphragms with Framing of Douglas-Fir, Larch or Southern Pine^a for Wind^{b,c} or Seismic Loading^c

Panel Grade	Common Nail Size	Minimum Nail Penetration in Framing (in.)	Minimum Nominal Panel Thickness (in.)	Minimum Nominal Width of Framing Members at Adjoining Panel Edges and Boundaries ^f (in.)	Blocked Diaphragms Nail Spacing (in.) at diaphragm boundaries (all cases), at continuous panels edges parallel to load (Cases 3 & 4), and at all panel edges (Cases 5 & 6) ^d				Unblocked Diaphragms Nails Spaced 6" max. at Supported Edges ^d	
					Case 1 edges or continuous joints parallel to load				All Other configurations (Cases 2, 3, 4, 5 & 6)	
					6	4	2-1/2 ^e	2 ^e	6	6
APA STRUCTURAL I grades	6d ^a	1-1/4	5/16	2	185	250	375	420	165	125
				3	210	280	420	475	185	140
	8d	1-3/8	3/8	2	270	360	530	600	240	180
				3	300	400	600	675	265	200
	10d ^b	1-1/2	15/32	2	320	425	640	730	285	215
				3	360	480	720	820	320	240
APA RATED SHEATHING APA RATED STURD-I-FLOOR and other APA grades except Species Group 5	6d ^a	1-1/4	5/16	2	170	225	335	380	150	110
			3	190	250	380	430	170	125	
			3/8	2	185	250	375	420	165	125
				3	210	280	420	475	185	140
			3/8	2	240	320	480	545	215	160
				3	270	360	540	610	240	180
	8d	1-3/8	7/16	2	255	340	505	575	230	170
				3	285	380	570	645	255	190
			15/32	2	270	360	530	600	240	180
				3	300	400	600	675	265	200
	10d	1-1/2	15/32	2	290	385	575	655	255	190
				3	325	430	650	735	290	215
		19/32	2	320	425	640	730	285	215	
			3	360	480	720	820	320	240	

Chart reprinted from *APA Engineered Wood Construction Guide*, Form E30 rev. February 2016, Table 42, p. 76.

- For framing of other species: (1) Find specific gravity for species of lumber in the *AWC National Design Specification (NDS)*. (2) Find shear value from table above for nail size for actual grade. (3) Multiply value by the following adjustment factor: Specific Gravity Adjustment Factor = [1 - (0.5 - SG)], where SG = specific gravity of the framing. This adjustment will not be greater than 1.
- For wind load applications, the values in the table above shall be permitted to be multiplied by 1.4.
- For shear loads of normal or permanent load duration as defined by the NDS, the values in the table above shall be multiplied by 0.63 or 0.56, respectively.
- Space nails maximum 12 inches o.c. along intermediate framing members (6 inches o.c. when supports are spaced 48 inches o.c. or greater). Fasteners shall be located 3/8" from panel edges.
- Framing at adjoining panel edges shall be 3" nominal or wider, and nails shall be staggered where nails are spaced 2 inches o.c. or 2-1/2 inches o.c.
- The minimum normal width of framing members not located at boundaries or adjoining panel edges shall be 2".
- 8d is recommended minimum for roofs due to negative pressures of high winds.
- Framing at adjoining panel edges shall be 3" nominal or wider, and nails shall be staggered where 10d nails having penetration into framing of more than 1-1/2" are spaced 3 inches o.c.