Oriented Strand Board

Brookneal, VA; Grenada, MS; Hosford, FL;
Mt. Hope, WV; Skippers, VA; Fordyce, AR

Specifications

Blue Ribbon® OSB is a performance rated structural panel made of compressed wood strands arranged in opposing oriented layers and bonded with phenolic resin under heat and pressure. Each panel is certified to Department of Commerce Industry Consensus Standard PS 2-2004 by APA-The Engineered Wood Association for use as wall, roof, and floor sheathing or for combine single layer floor applications. Panels are rated for Exposure 1 bond durability[1] for protected applications and limited exposure during normal construction delays. Blue Ribbon OSB is blue edge coated to limit absorption and pick-up of moisture.

Manufacturing Locations

Brookneal, VA
Fordyce, AR
Grenada, MS
Hosford, FL
Mt. Hope, WV
Skippers, VA

Major Uses

APA Rated® Sheathing

Blue Ribbon OSB APA Rated® Sheathing is an excellent selection for wall, roof deck and sub-floor sheathing applications. This APA-The Engineered Wood Association certified panel offers strength, stiffness, dimensional stability, racking and impact resistance, uniformity and excellent fastener holding capacity. Its solid construction provides uniformity with good fastener holding. Rated sheathing has a screen impression surface on one side that, when installed up on roofs, provides a more slip-resistant surface for worker safety. (Exposure 1 panels are not recommended for permanent full exposure or conditions of high moisture and humidity such as exterior siding applications, poultry house linings, sign, etc.)

Rated Sturd-I-Floor®

Blue Ribbon OSB Rated Sturd-I-Floor® is an excellent product that combines sub-floor and underlayment requirements in a single panel[2]. Because of its cross oriented, multi-layered construction, OSB Sturd-I-Floor provides exceptional stability and stiffness and has a touch sanded surface. These APA-The Engineered Wood Association certified Sturd-I-Floor panels are available in square edge or tongue and groove long edge profiles. OSB Sturd-I-Floor is manufactured and available in standard 8-foot length, and is available in 12-foot and 16-foot special order lengths, offering savings opportunities in installation time and labor costs. Also, Blue Ribbon OSB Sturd-I-Floor panels are covered for up to 10 years against delamination under its builder's limited commercial warranty[3].

Product Availability

		Grenada		Skippers		Mt. Hope		Brookneal		Fordyce		Hosford	
Thickness/ Product	Span	Pcs. per unit	Wt. (lbs. per msf)	Pcs. per unit	Wt. (lbs. per msf)	Pcs. per unit	Wt. (lbs. per msf)	Pcs. per unit	Wt. (lbs. per msf)	Pcs. per unit	Wt. (lbs. per msf)	Pcs. per unit	Wt. (lbs. per msf)
3/8″ Rated Sheathing	24/0	94	1375	85	1406	96	1545	90	1545	94	1406	94	1438
7/16″ Rated Sheathing	24/16	80	1500	87	1553	87	1528	87	1543	80	1547	80	1553
15/32″ Rated Sheathing	32/16	70	1656	–	–	78	1641	–	–	70	1735	70	1765
1/2″ Rated Sheathing	32/16	70	1719	70	1732	78	1768	70	1936	70	1735	70	1806
19/32″ Rated Sheathing	40/20	56	2219	–	–	63	2116	63	2128	56	2234	56	2284
5/8″ Rated Sheathing	40/20	56	2219	63	2235	–	–	–	–	–	–	–	–
23/32″ Rated Sheathing	48/24	47	2500	–	–	55	2425	–	–	–	–	–	–
3/4″ Rated Sheathing	48/24	47	2531	55	2425	–	–	–	–	–	–	–	–
19/32″ Rated Sturd–I–Floor®	20″ o.c.	56	2156	63	2235	63	2116	63	2250	56	2156	56	2284
23/32″ Rated Sturd–I–Floor®	24″ o.c.	47	2438	55	2425	55	2425	55	2700	47	2438	47	2535

continued on reverse

Dimensional Product Specifications

Thickness Tolerance	± 1/32″, (± 0.8mm)
Length and Width Tolerance	+0, - 1/8″ (+0, -3.2mm)
Straightness Tolerance	± 1/16″, (±1.6mm) from straight line corner to corner
Squareness Tolerance	± 1/8″, (± 3.2mm) (variation of measured diagonals of 4′ x 8′ panel)

Physical & Mechanical Properties (Typical Range)

Panels are span rated as full panels to performance criteria for wall, roof, and floor construction applications. The physical and mechanical small specimen properties given below are typical ranges, not minimums, and are not certified.

Density	40 to 42 lb/ft^3 (640.74 to 672.78 Kg/m^3)
Thickness Swell (24-hour soak test)	15/32″ (12mm): less than 18% 19/32″ (15mm): less than 15%
Traverse Tension (Internal Bond)	30 to 70 psi (0.207 to 0.483 MPa)
Modulus of Elasticity (Longitudinal Axis)	620,000 to 720,000 psi (4,274.75 to 4,964.23 MPa)
Modulus of Rupture (Longitudinal Axis)	3,185 to 3,955 psi (21.96 to 27.27 MPa)
Minimum Dry Direct Nail Withdrawal	20 lbs. (9.07 Kg)
Minimum Dry Lateral Nail Withdrawal	120 lbs. (54.43 Kg)
Flame Spread Classification	Class 3 (or C), FS Rating: 76-200, Smoke Developed: <450
Testing Agency	APA-The Engineered Wood Association
Building Code Acceptance	DOC PS 2-2004
FHA/HUD Use of Materials Bulletin	HUD UM-40

Blue Ribbon® OSB is manufactured using phenol formaldehyde resin, also known as phenolic thermoset resin. The same basic resin is used in both the core and face layers, although the formulation may vary slightly to allow differences in cure dynamics. The formaldehyde emissions of newly manufactured panels, when tested to ASTM E 1333 Large Scale Chamber method, typically will fall within a range of 0.03 PPM to 0.07 PPM. These emission levels for PS 1 and PS 2 certified phenolic bonded structural panels are exempt for testing or monitoring by HUD in the Manufactured Home Construction and Safety Standards and by the California Air Resources Board (CARB) in the Composite Wood Air Toxic Control Measure (ATCM).

Phenolic resins are considered highly water resistant; however, Blue Ribbon OSB panels are considered Exposure 1 durability, which is for protected applications with limited full exposure during normal construction cycles only.

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[1] The Exposure 1 rating on a panel means that the panel is intended for protected construction applications where ability to resist moisture during normal construction delays or where exposure to conditions of similar severity is required. Exposure 1 panels are comparable to panels designated under PS1 as interior type with exterior glue, such as CD interior with exterior glue (CDX).

[2] Although Sturd-I-Floor is suitable for direct application of carpet and pad or hardwood strip flooring, an additional layer of underlayment must be used under ceramic tile for added stiffness to resist tile cracking. Under sheet vinyl floor coverings, a thin underlayment layer is recommended over the Sturd-I-Floor to prevent telegraphing of irregularities and to provide punch-through resistance of small table legs, high heels, etc. and to ensure finish floor levels are flush throughout. The added layer also restores a smooth surface over panels that may have been scuffed or toughened during construction.

[3] See complete warranty for details.

Georgia-Pacific

Georgia-Pacific Wood Products LLC
55 Park Place, N.E.
Atlanta, GA 30303
1-800-BUILD GP *www.gp.com*