



ZIP SYSTEM® SHEATHING

MANUFACTURER

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BASIC USE AND APPLICATIONS

ZIP System® sheathing is an oriented strand board (OSB) with a protective overlay factory bonded to the panel during the manufacturing process. ZIP System panels are combination wall and roof panels that eliminate the need for building wrap* for wall applications and felt underlayment in roof applications*. Once the panels are installed, the panel seams are taped with Huber's ZIP System™ flashing tape, and the building is considered to have a rough dry-in. ZIP System flashing tape is a pressure-sensitive tape that must be rolled with a rubber-faced roller to achieve maximum bond to the panel.

When used on a wall, ZIP System sheathing functions as a combination structural wall sheathing panel, code-recognized water-resistant barrier*, and air barrier when the panel seams are flashed with ZIP System flashing tape or ZIP System™ liquid flash. In the roof application, ZIP System sheathing is a combination structural decking panel and roof underlayment*.

ZIP System sheathing uses a phenolic resin-impregnated overlay to provide excellent weather resistance. ZIP System relies on the proprietary seam tape, ZIP System flashing tape, to create the water-resistant barrier and air barrier continuity from one panel to the next to achieve a performance equivalency to Grade D paper in accordance with ICC Acceptance Criteria AC308. Additionally, ZIP System flashing tape has been extensively tested for long-term adhesion and flexibility as published in ESR-2227.

ZIP System sheathing may be used for roofs and walls in Type V construction or in Type III construction as roof sheathing.

AVAILABLE SIZES

ZIP System Roof and Wall sheathing panels are available in 4' x 8' sheets with self-spacing edge profiles and tongue and groove edge profiles (5/8 only). ZIP System panels are Exposure 1 rated and are available in the following span ratings and performance categories. All thicknesses of ZIP System sheathing are Structural 1 rated. The longer-length panels are available for wall applications only.

- 24/16, Structural 1, 7/16 PERF CAT (4' x 8, 9 and 10')
- 32/16, Structural 1, 1/2 PERF CAT
- 40/20, Structural 1, 5/8 PERF CAT

Third-party independent testing for ZIP System sheathing is conducted by PFS TECO.

*ZIP System sheathing is intended to replace one layer of water resistive barrier or felt underlayment. When two layers are required one additional layer must be installed.



ZIP System® Benefits

Excellent Moisture Resistance	Continuous vapor permeable moisture barrier that blocks out liquid water but still allows walls to dry out
Ease of Installation	No more delays because of felt or building wraps blowing off
Energy Efficient	Code-recognized built-in weather and air barrier

LIMITATIONS

- ZIP System sheathing can be exposed for up to 180 days.
- ZIP System sheathing should not be used with adhesively attached EIFS but can be used with mechanically fastened EIFS.
- When using ZIP System sheathing on roof pitches 4:12 or greater, no additional underlayment is required. For roof pitches 2:12-4:12, the building code requires two layers of underlayment; ZIP System sheathing is code recognized to replace the first layer in the two-layer system. One additional layer of underlayment is required.
- When using ZIP System sheathing with adhered stone or hard coat stucco, ZIP System sheathing is code recognized to replace the first layer in the two-layer system. One additional layer of water-resistive barrier is required.

SUSTAINABLE DESIGN CONTRIBUTIONS

- Low-Emitting Material: No added urea formaldehyde
- Sustainable Forestry Initiative Certified Wood: Harvested, transported, manufactured, and distributed utilizing sustainable practices
- Renewable Forest Resources: Composed of primarily young-growth bio-based resources
- Regional Materials: Made in one of our regional manufacturing facilities: Broken Bow, OK; Commerce, GA; Crystal Hill, VA; Easton, ME; Spring City, TN; and Shawinigan, QC

POTENTIAL LEED CREDIT CONTRIBUTIONS

- Credit IEQ 4.4 Low-Emitting Materials, Composite Wood and Agrifiber: ZIP System® sheathing contains no added urea formaldehyde
- Credit MR 5.1 or 5.2 Regional Materials: Materials harvested, processed, and manufactured within 500 miles of the project site
- Credit MR 2.2 Environmentally Preferable Products – Local Production (LEED for Homes)
- EA 3 Air Infiltration – Meet air leakage requirements

SUBSTRATE

Before beginning installation, verify that the wood wall framing is properly spaced and aligned to continuously support panel edges.

PANEL INSTALLATION

Install ZIP System sheathing in accordance with:

- ZIP System Sheathing Installation Manual
- ICC-ES ESR-1473
- ICC-ES ESR-1474
- Requirements of authorities having jurisdiction

When used as roof sheathing, install ZIP System panels with moisture barrier surface facing out, with long edges perpendicular to framing members, and with short edges fully supported. Stagger short edge seams. Long edges are self-spacing; 4-foot panel edges should be spaced manually a minimum of 1/8-inch (3 mm) apart.

When used as wall sheathing, install ZIP System panels positioned with the water-resistive barrier facing out. The panels may be installed with the long side of the panel oriented either horizontally or vertically to the framing members. Walls that are designed to resist lateral shear forces** and sheathed with wood structural panels typically require solid framing or blocking behind all panel edges. Long edges are self-spacing; 4-foot panel edges should be manually spaced a minimum 1/8-in (3 mm) apart.

Fasteners:

Install fasteners approved by applicable building codes or designer of record. Install fasteners 3/8-inch (9.5 mm) from panel edges. Space fasteners no greater than 6 inches (152 mm) on center along supported panel edges and no greater than 12 inches (305 mm) on center at intermediate supports unless otherwise specified. ZIP System sheathing panels have a printed fastener guide for 16-inch (406 mm) and 24-inch (610 mm) on center framing locations.

Tape Installation:

Install ZIP System™ flashing tape in accordance with the manufacturer's written instructions at seams, openings, and penetrations. Install windows and window flashing in accordance with the window manufacturer's written instructions. Details of installation recommendations are available in AutoCAD and PDF formats at ZIPSystem.com or Huberwood.com.

STORAGE AND HANDLING

Store and handle products according to the manufacturer's written recommendations. Support panel bundles off the ground. Cover stored panels with weatherproof protective material; allow sides of protective material to remain loose to ensure adequate air circulation. In high-moisture conditions, cut bundle banding to prevent edge damage to panels. Factory-applied packaging is intended only for protection during transit.

AVAILABILITY

Huber Engineered Wood's ZIP System sheathing panels are manufactured at multiple locations in the U.S. They are available through distributors nationwide. Visit ZIPSystem.com or contact Huber Engineered Woods for a retailer near you.

WARRANTY

ZIP System sheathing is furnished with a 30-year system warranty. Limitations and restrictions apply. View the ZIP System [Residential Warranty](#), [Commercial Warranty](#) and/or [Homeowner Warranty](#) available at huberwood.com/warranties for more details.

NOTES AND LIMITATIONS

- Do not install ZIP System flashing tape in temperatures less than 0° F.
- Roof panel edge clips are only required with 7/16 inch thick ZIP System® sheathing on supports spaced greater than 16 inches OC. Panel edge clips approved to be used with ZIP System sheathing are Simpson Strong-Tie®, PSCA, PSCL, and Tamlyn™ PCS models.

TECHNICAL SERVICE

Detailed information including specifications, product literature, test reports, installation instructions, and special applications is available through Huber Engineered Woods. Please visit ZIPSystem.com or call 800.933.9220 EXT 2716 to speak to a technical representative.

AVAILABLE RESOURCES

Section 06 16 13 SHEATHING guide specifications ZIP System® Roof and Wall Sheathing products in CSI 3-part format is available in MasterSpec®, ARCAT.com, BSD SpecLink® at ZIPSystem.com.

ZIP System® Sheathing Performance Properties		
Exposure Durability Classification	DOC PS2	Exposure 1
Panel Grade	DOC PS 2	Structural 1*
Moisture Barrier	AC38	Grade D WRB
Water Penetration	ASTM E331	Passed
Vapor Transmission	ASTM E96-B (panel overlay)	12-16 perms
Air Barrier Assembly	ASTM E2357	0.037 L/(s*m2)
Air Barrier Material	ASTM E2178	0.0016 L/(s*m2) @300 Pa
Wind Driven Rain	TAS 100 (at 100 mph)	Passed
Drainage Efficiency	ASTM E 2273	>90%

**ZIP System sheathing is a DOC PS2 compliant OSB wood structural panel per ESR-1474. ZIP System sheathing panels do not have proprietary shear values, but would be equivalent to a structural 1 panel of equivalent thickness.