

ZIP SYSTEM® SHEATHING

MANUFACTURER

Huber Engineered Woods LLC
 10925 David Taylor Drive, Suite 300, Charlotte, NC 28262
 800.933.9220 • Technical Service: 800.933.9220 x2716
 ZIPSystem.com • HuberArchitectLibrary.com

BASIC USE AND APPLICATIONS

ZIP System Roof and Wall sheathing panels are oriented strand board (OSB), wood structural panels with built-in protective overlays that eliminate the need for building wrap or roofing felt. Install the panels, tape the seams with Huber’s ZIP System tape, and the building is rough dried-in. A wide range of roof coverings and wall claddings can be installed directly over ZIP System sheathing.

When used on a wall, ZIP System sheathing functions as a combination wall sheathing, code-recognized water-resistive, and air barrier. The sheathing panel seams are sealed with ZIP System tape, protecting the wall from water intrusion.

When Huber’s ZIP System sheathing is utilized for roof applications, felt underlayment is not required. In wall and roof coverings system requiring multiple layers of water-resistive barriers or underlayment, ZIP System is intended to replace on the first layer.

ZIP System sheathing uses a tough, phenolic resin-impregnated overlay to provide permanent weather resistance, in contact with a proprietary seam tape that has been extensively tested for long-term adhesion and flexibility. This combination meets performance requirements for Grade D weather-resistive barriers in accordance with ICC Acceptance Criteria AC38.

ZIP System sheathing may be used for roofs and walls in Type V construction, in Type III construction as roof sheathing only, and other construction permitted under the International Residential Code.

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 profile (5/8 only). ZIP System panels are Exposure 1 rated and are available in the following span ratings and performance categories.

- 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

Longer length panels are available for wall applications. Third party independent testing for ZIP System Roof and Wall sheathing is conducted by Timberco, Inc. (TECO).



ZIP System Benefits	
Superior 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

When used as roof sheathing, ZIP System sheathing is limited to roofs with slopes of 2:12 (16.67 percent) or greater. Felt underlayment is not required on the roof. In roof covering systems requiring multiple layers of underlayment, ZIP System sheathing is intended to replace only the first layer. In wall covering systems requiring multiple layers of water-resistive barriers, ZIP System sheathing is intended to replace only the first layer.

ZIP System sheathing should not be used with adhesively-attached EIFS, but can be used with mechanically attached EIFS. Avoid exposing ZIP System sheathing for more than 180 days.

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 the United States at one of our 4 regional manufacturing facilities: Broken Bow, OK; Commerce, GA; Crystal Hill, VA; and Easton, ME

POTENTIAL LEED CREDIT CONTRIBUTIONS

- Credit IEQ 4.4 Low-Emitting Materials, Composite Wood and Agrifiber: AdvanTech contains no added urea formaldehyde
- Credit MR 5.1 or 5.2 Regional Materials: Materials harvested, processed, and manufactured within 500 miles of 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 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 panels with moisture barrier surface facing out, with long edge 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 approximately 1/8-inch (3 mm) apart.

When used as wall sheathing, install 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 approximately 1/8-in (3 mm) apart.

Fasteners:

Install fasteners approved by applicable building codes. Install fasteners 3/8-inch (9.5 mm) from panel edges. Space fasteners 6-inches (152 mm) on centers on supported panel ends and 12-inches (305 mm) on center at intermediate supports unless otherwise specified. ZIP System panels have a printed fastening guide for 16-inch (406 mm) and 24-inch (610 mm) on center fasteners locations.

Tape Installation:

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

STORAGE AND HANDLING

Store and handle products according to 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 Roof and Wall 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 Roof and Wall sheathing is furnished with a 30-year system warranty as well as a 30-year warranty against manufacturing defects. Visit ZIPSystem.com for limitations and restrictions.

NOTES AND LIMITATIONS

- Do not use on roof with slopes less than 2:12
- Do not install ZIP System tape in temperatures less than 20° F
- Roof panels 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, and HuberArchitectLibrary.com.

ZIP System Sheathing Performance Properties		
Exposure Durability Classification	DOC PS 2	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	98%

© 2015 Huber Engineered Woods LLC. AdvanTech® is a registered trademark of Huber Engineered Woods LLC. Huber is a registration trademark of J.M. Huber Corporation. HUB-9006 05/17

*Note: 4' x 8' 7/16" ZIP System "Structural 1" panels are not available in all areas of the country. Please check with your local supplier for availability in your area.