



ENGINEERED WOODS



The all-in-one solution for roof and wall sheathing

DESCRIPTION

BASIC USE AND APPLICATIONS

ZIP System® Roof and Wall Sheathing panels are oriented strand board (OSB) 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 install directly over ZIP System Sheathings.

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

When Huber’s ZIP System Sheathing is utilized for roof applications, felt underlayments are not required. In roof and wall covering systems requiring multiple layers of water-resistive barriers or underlayments, ZIP System is typically accepted as the first layer.

ZIP System Sheathing uses a tough, phenolic resin-impregnated overlay to provide permanent weather resistance, in concert 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 Building Code and International Residential Code.

AVAILABLE SIZES

ZIP System Roof and Wall Sheathing panels are available in 4 by 8 foot 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, 7/16 PERF CAT
- 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 of ZIP System Roof and Wall Sheathing 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 efficiency	Code-recognized built-in weather and air barrier

LIMITATIONS

ZIP System Sheathing when used as roof 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 is intended to replace only the first layer. In wall covering systems requiring multiple layers of water-resistive barriers, ZIP System is intended to replace only the first layer.

ZIP System is not currently recommended for use with adhesively-attached EIFS, but can be used with mechanically attached EIF systems. 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.

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POTENTIAL LEED CREDIT CONTRIBUTIONS

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

APPLICATION

SUBSTRATE

Before beginning installation, verify framing is properly spaced and aligned to support panels.

PANEL INSTALLATION

Install ZIP System Roof and Wall Sheathing in accordance with the following:

- 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, spanning at least three framing members, and with short edges fully supported. Stagger short edge seams. Long edges are self-spacing; 4 foot panel edges should be manually spaced apx. 1/8 inch (3mm) 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 apx. 1/8 inch (3 mm) apart.

Fasteners:

Install fasteners approved by applicable building code. 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 centers 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 fastener locations.

Tape Installation:

Install ZIP System tape in accordance with manufacturer's written instructions at seams, openings, and penetrations. Install windows and window flashing in accordance with window manufacturer's written instructions.

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 assure adequate air circulation. In high moisture conditions, cut bundle banding to prevent edge damage to panels.

AVAILABILITY

Huber Engineered Wood's ZIP System Roof and Wall panels are manufactured at multiple locations in the U.S. and 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 degrees F.
- Roof panel edge clips are only required with 7/16 inch thick ZIP System sheathing on supports spaced more than 6 inches oc. Use only clips approved by HEW.

TECHNICAL SERVICES

Detailed information including 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 00 SHEATHING guide specification for ZIP System Roof and Wall Sheathing products in CSI 3-part format is available from Huber Engineered Woods.

ZIP System Benefits		
Exposure Durability Classification	DOC PS 2	Exposure 1
Panel Grade	DOC PS 2	Structural 1 (except 7/16 PERF CAT)
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