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  •  Huberwood.com

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 a combination wall and roof panel that eliminates 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 rough dried-in. ZIP System™ flashing tape is a pressure sensitive tape that must be rolled with a rubber-faced roller in order to achieve maximum bond to the panel.

When used on a wall, ZIP System® sheathing functions as a combination structural wall sheathing, code-recognized water-resistive 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 and 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 resistive 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 AC38. 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 both 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 profile (5/8 only). ZIP System® panels are Exposure 1 rated and are available in the following span ratings and performance categories. All thickness 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

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<tr>
<th>Feature</th>
<th>Description</th>
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<tr>
<td>Excellent Moisture Resistance</td>
<td>Continuous vapor permeable moisture barrier that blocks out liquid water but still allows walls to dry out</td>
</tr>
<tr>
<td>Ease of Installation</td>
<td>No more delays because of felt or building wraps blowing off</td>
</tr>
<tr>
<td>Energy Efficient</td>
<td>Code-recognized built in weather and air barrier</td>
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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 recognize 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 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 ZIP System® 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 a minimum 1/8-inch (3 mm) apart.

When used as wall sheathing, install ZIP System® panels positioned with the water-resistant 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 centers on 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 manufacturer’s written instructions at 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 at Huberwood.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® 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 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.

**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.

ZIP System® Sheathing Performance Properties

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<th>Property</th>
<th>Exposure Durability Classification</th>
<th>ZIP System® Sheathing Performance Properties</th>
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<tbody>
<tr>
<td>Panel Grade</td>
<td>DOC PS 2</td>
<td>Structural 1*</td>
</tr>
<tr>
<td>Moisture Barrier</td>
<td>AC38</td>
<td>Grade D WRB</td>
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<tr>
<td>Water Penetration</td>
<td>ASTM E331</td>
<td>Passed</td>
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<tr>
<td>Vapor Transmission</td>
<td>ASTM E96-B (panel overlay)</td>
<td>12-16 perms</td>
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<tr>
<td>Air Barrier Assembly</td>
<td>ASTM E2357</td>
<td>0.037 L/(s*m2)</td>
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<tr>
<td>Air Barrier Material</td>
<td>ASTM E2178</td>
<td>0.0016 L/(s*m2) @ 300 Pa</td>
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<tr>
<td>Wind Driven Rain</td>
<td>TAS 100 (at 100 mph)</td>
<td>Passed</td>
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<tr>
<td>Drainage Efficiency</td>
<td>ASTM E 2273</td>
<td>98%</td>
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