INNOVATIVE SOLUTIONS FOR A BETTER BUILD, EVERY TIME
We don’t settle for the way it’s always been done. We advance progress by challenging outdated conventions and reducing friction on the jobsite. Our dedicated research and development team never stops exploring ways to perfect the building envelope. That’s how we continuously deliver durable, high-performance solutions that power efficiency for busy crews and create lasting comfort and enjoyment for homeowners.

At Huber Engineered Woods, we’re driven by the pursuit of next.
At Huber Engineered Woods, we create innovative and high-performance products that allow your roofs, walls and floors to live up to their full potential. Our engineered wood sheathing and subfloor products help homes and buildings meet today’s increasingly demanding codes and discerning property owners, while allowing builders to differentiate from their competition. Our products are specifically engineered to enhance the performance of the building and the lives of the people who live and work inside them.

Nationwide Availability
With an extensive manufacturing and distribution network, Huber serves the construction industry nationwide.

Dedicated Customer Support
Knowledgeable sales representatives are available nationwide to provide product information, answer installation questions and more. To locate a representative in your area, call 1.800.933.9220.

Founded in 1883, the J.M. Huber Corporation has grown to be one of the largest family-owned companies in the U.S. We’re now a global company with approximately 4,000 employees in more than 20 countries. We are guided by a spirit of creativity and innovation that transforms ideas into products that meet the challenges of an evolving world. And we do all this while honoring a commitment to the Huber Principles:

- Environmental Health and Safety (EHS) Sustainability
- Ethical Behavior
- Respect for People
- Excellence

Huber Engineered Woods is dedicated to our role as a responsible environmental steward. To see our impact and learn our sustainability story, visit HuberWood.com/About-Huber/Environmental/Sustainable-Practices.
Long-Lasting Strength and Stiffness
High wood density, paired with advanced engineering, provides the strength and stiffness needed to deliver a quiet, stiff floor.

Defends Against Moisture
Advanced moisture-resistant resins seal every strand of wood to resist swelling, cupping or flaking.

Fastener-Holding Power Reduces Floor Squeaks
The high wood density and advanced resins inside AdvanTech subflooring securely hold floor fasteners in place, helping to reduce nail pops and floor squeaks.

Engineered to Bring Performance, Quality and Confidence into Every Floor

Built To A Higher Standard
AdvanTech® subflooring is substantiated by third-party evaluation services for published design values for strength, stiffness and fastener-holding power above PS-2 minimums.² These values are documented in ESR-1785.³ Visit icc-es.org for the full report.

Lifetime Limited Warranty⁴
Backed by a lifetime limited warranty, AdvanTech subflooring delivers performance you can trust.

No-Sanding Guarantee⁴
AdvanTech subflooring will stand up to your most demanding jobsites and are backed by a 500-day no-sanding guarantee. Say goodbye to swelling, cupping and delamination.

Voted #1 In Quality⁵
Builders from across the nation have voted AdvanTech subflooring #1 in quality in its category every year for over a decade.⁶ That’s a reputation you can build on.

Engineered with strength, moisture resistance and fastener-holding power, AdvanTech® subflooring is the brand builders trust for quality subfloors. Combined with the polyurethane bond of AdvanTech™ subfloor adhesive, the AdvanTech™ Subfloor Assembly offers a panel-to-joist connection so powerful you won’t hear a squeak, guaranteed¹. Build with award-winning AdvanTech subflooring and rest assured you’ll get the FLAT OUT BEST™.

Installation Speed and Ease
Consistent manufacturing, plus pre-printed fastening guides and a precisely engineered tongue and groove profile, helps ensure every panel of AdvanTech subflooring installs quickly and easily.

Structural 1
AdvanTech subflooring and sheathing panels are tested and marked as Structural 1 to satisfy the most demanding of specifications ².

Built to A Higher Standard
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1. Limitations and restrictions apply. See SqueakFreeGuarantee.com for details.
2. Only 23/32” thickness AdvanTech® subflooring and 1/2” and 5/8” thicknesses of AdvanTech® roof and wall sheathing are included in ICC-ES report ESR-1785.
3. ESR-1785 is an Evaluation Services Report (ESR) issued by the International Code Council Evaluation Service. Evaluation reports from ICC Evaluation Service are frequently used by code officials to verify that new and innovative building products comply with code requirements.
5. BUILDER magazine’s 2002-2019 Brand Use Studies; OSB category.
6. See AdvanTech Flooring Product Data Sheet on AdvanTechPerforms.com for available thicknesses stamped as Structural 1.
ADVANTECH™ FAMILY OF PRODUCTS

Used together, AdvanTech products give you a bond so strong, you won’t hear a squeak—guaranteed.¹

Structural Solutions*

19/32” Subflooring
See Pages 10-13

23/32” Subflooring
See Pages 10-13

7/8” Subflooring
See Pages 10-13

1” Subflooring
See Pages 10-13

1-1/8” Subflooring
See Pages 10-13

1/2” Sheathing
See Pages 16 & 17

5/8” Sheathing
See Pages 16 & 17

23/32” Sheathing
See Pages 16 & 17

23/32” X-Factor Subflooring
See Pages 15

1 1/8” X-Factor Subflooring
See Pages 15

Adhesive Solutions

Subfloor Adhesive
See Pages 14 & 15

SUBFLOOR ADHESIVE

SUBFLOOR ADHESIVE CLEANER

SUBFLOOR ADHESIVE STARTER KIT

PRO GRADE FOAM APPLICATOR GUNS

Used together, AdvanTech products give you a bond so strong, you won’t hear a squeak—guaranteed.¹ See SqueakFreeGuarantee.com for details.

¹ Limitations and restrictions apply. See SqueakFreeGuarantee.com for details.

² Check with your local supplier for thickness availability in your market.
Moisture Resistance During and After Construction

The average jobsite receives rain three times during construction and other factors such as high humidity, snow and ice can expose your projects to even more moisture.

Rest assured, AdvanTech® subflooring’s moisture resistance helps prevent headaches such as warping, swelling and delamination, leaving your finished floors smooth, flat and quiet.

### Moisture Resistance During and After Construction

#### Installs Fast and Lies Flat

AdvanTech® subflooring brings together a unique combination of bending strength, stiffness and fastener-holding power, so you can get the most from your flooring system. The result is a solid-feeling floor that can enhance the quality of the entire home.

### Advanced Strength, Stiffness and Fastener-Holding Power

#### Highly Compressed Material

High panel density helps reduce the rate of water absorption into the panel, even under harsh weather conditions.

#### Moisture-resistant Resins

Advanced resins react chemically with the natural moisture in the wood, creating a highly moisture-resistant substance, similar to polyurethane.

#### Edge Sealant

For added protection, every edge is coated with sealant to help prevent swelling during long-term storage or exposure to the elements.

### Performance Category

<table>
<thead>
<tr>
<th>Panel Size 4</th>
<th>PS-2 Span Rating</th>
<th>Code Evaluation Report5</th>
<th>Edge Profile</th>
<th>Panel Grade</th>
<th>Approx. Weight Per Panel2</th>
<th>Panels Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>19/32 4&quot; x 8'</td>
<td>20 oc</td>
<td>ESR-1785</td>
<td>x</td>
<td>Rated for 19/32&quot;</td>
<td>66 lbs.</td>
<td>55 pcs.</td>
</tr>
<tr>
<td>23/32 4&quot; x 8'</td>
<td>24 oc</td>
<td>ESR-1785</td>
<td>x</td>
<td>Structural 1</td>
<td>78 lbs.</td>
<td>45 pcs.</td>
</tr>
<tr>
<td>7/8 4&quot; x 8'</td>
<td>32 oc</td>
<td>x</td>
<td>x</td>
<td>T&amp;G</td>
<td>96 lbs.</td>
<td>40 pcs.</td>
</tr>
<tr>
<td>1 4&quot; x 8'</td>
<td>32 oc</td>
<td>x</td>
<td>x</td>
<td></td>
<td>109 lbs.</td>
<td>35 pcs.</td>
</tr>
<tr>
<td>1-1/8 4&quot; x 8'</td>
<td>48 oc</td>
<td>x</td>
<td>x</td>
<td></td>
<td>125 lbs.</td>
<td>30 pcs.</td>
</tr>
</tbody>
</table>

1. Net face width is 47-1/2" on tongue and groove panel.
2. Estimated panel weight. Actual weight may vary by mill.
3. ESR-1785 is an Evaluation Services Report (ESR) issued by the International Code Council’s Evaluation Service. Evaluation reports from ICC Evaluation Service are frequently used by code officials to verify that new and innovative building products comply with code requirements.

### Water Absorption

![Water Absorption Graph](image)

- **ESR-1785**
- **OSB Competitors**
- **Plywood Competitors**

**Moisture Absorption %**

- **Highest**
- **Average**
- **Lowest**

**24-Hour Edge Swell Demonstration**

- **AdvanTech® Subflooring**
- **OSB Flooring**

**3-Hour Wicking Demonstration**

- **AdvanTech® Subflooring**
- **Plywood Flooring**

### Advanced Strength, Stiffness and Fastener-Holding Power

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4&quot; x 8'</td>
<td>20 oc</td>
<td>ESR-1785</td>
<td>1,250</td>
<td>400K</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>4&quot; x 8'</td>
<td>24 oc</td>
<td>ESR-1785</td>
<td>1,770</td>
<td>500K</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>7/8 4&quot; x 8'</td>
<td>32 oc</td>
<td>x</td>
<td>1,770</td>
<td>770</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>1 4&quot; x 8'</td>
<td>32 oc</td>
<td>x</td>
<td>1,770</td>
<td>770</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>1-1/8 4&quot; x 8'</td>
<td>48 oc</td>
<td>x</td>
<td>1,770</td>
<td>770</td>
<td>16</td>
</tr>
</tbody>
</table>

1. All testing was conducted by an independent IAS-accredited testing facility in September 2008. This single sample testing was done in accordance with the applicable ASTM standards and test methods. GSP values are based on lowest, average and highest water absorption levels of four competitors. Competitor testing samples correspond to single manufacturing locations from one production date.
2. Allowable nail withdrawal values were calculated in accordance with the 2020 National Design Specification for Wood Construction using a 0.131-inch diameter nail.
4. 2020 APA Panel Design Specifications, Form No. G520C.
How AdvanTech Subflooring Helps You Get the Job Done Efficiently

Self-Spacing Tongue and Groove Profile
The precisely engineered and durable profile helps ensure every panel fits together easily.

Patented Fastening Guide
Printed fastening guides on every panel help improve accuracy and speed during installation.

Lies Flat and Installs Easily
Advanced quality controls and an innovative manufacturing process help ensure every panel goes down with ease.

No-Sanding Guarantee
AdvanTech subflooring will stand up to your most demanding jobsites and is backed by a 500-day no-sanding guarantee. Say goodbye to swelling, cupping and delamination.

General Information

<table>
<thead>
<tr>
<th>Flooring Mill Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mill</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>Easton, ME</td>
</tr>
<tr>
<td>Commerce, GA</td>
</tr>
<tr>
<td>Crystal Hill, VA</td>
</tr>
<tr>
<td>Broken Bow, OK</td>
</tr>
<tr>
<td>Spring City, TN</td>
</tr>
</tbody>
</table>

1. Estimated panel weight. Actual weight may vary by mill.
2. Limitations and restrictions apply. Visit the AdvanTech Residential Builder Warranty at huberwood.com/residential-warranties/advantech and/or Commercial Property Owner Warranty at huberwood.com/commercial-warranties/advantech for details.

GET A SECURE FIT EVERY TIME

Installs Fast and Lies Flat
With our precision-engineered tongue and groove system, AdvanTech® subflooring panels help deliver a secure fit for dependable edge-to-edge support to prevent movement that can cause squeaks. Plus, our patented fastening guide helps jobs get done faster with fewer hassles, errors and callbacks.

Hardwoods Over AdvanTech® Subflooring
The unique combination of high wood density and advanced resins helps hold fasteners in place and keep hardwood flooring flat and quiet.

Tile Over AdvanTech Subflooring
Featuring superb strength and stiffness and long-lasting durability, AdvanTech subfloors help preserve the structural integrity of natural stone and reduce the risk of cracked tile.

Carpet Over AdvanTech Subflooring
A fully sanded surface and precision tongue and groove profile help eliminate visible seams while keeping tack strips firmly in place.

Gypsum Concrete Over AdvanTech Subflooring
An excellent substrate for heavy traffic areas, AdvanTech® panels provide a durable, strong base ideal for gypsum concrete underlayment assemblies.

Square Edge Panel Size: 4' x 8'
Tongue and Groove Panel Size: 4' x 8'
(Actual face dimensions for tongue and groove panel are approximately 47-1/2” x 95-7/8")

Edge: Tongue and groove
Say Goodbye to Floor Squeaks

With a quick and easy application, AdvanTech™ subfloor adhesive delivers a heavy-duty polyurethane bond that exceeds industry performance standards, helping eliminate floor squeaks.¹

As a unique foam-to-gel formula, AdvanTech subfloor adhesive can be applied on wet or frozen wood.² And when you combine it with the moisture resistance, strength and fastener-holding power of AdvanTech subfloor panels, you get a subfloor assembly backed by a Squeak-Free Guarantee.³

- 8X more coverage⁴ than traditional cartridge-based adhesives (400 linear feet per can)
- Polyurethane bonding strength
- Adheres to wet and frozen wood
- Can be applied in temperatures between 35 degrees and 105 degrees Fahrenheit

First We Went Above, Now We Go Beyond

AdvanTech X-Factor panels are the latest innovation from the subflooring brand builders have trusted for more than 20 years as the FLAT OUT BEST™. AdvanTech X-Factor is a new class of premium subflooring with a fade-resistant, water-shedding surface on a high-performance engineered wood panel.

With a built-in protective top layer, it takes the moisture resistance builders expect from an AdvanTech panel to the next level and pairs well with AdvanTech subfloor adhesive for a Squeak-Free Guarantee.⁵

Ideal for Cold and Wet Conditions

Formulated to adhere to wet and frozen structural subfloor panels and joists, this moisture curing polyurethane adhesive is the ideal solution for not-so-ideal weather conditions.

Extreme Holding Power for the FLAT OUT BEST™ AdvanTech® Subfloors

More Coverage in Each Can

8X greater yield than traditional adhesive cauls means advanced strength with less product — a cost-effective, speedy application for your subfloor installations.

Fills Gaps for a Tighter Bond

Featuring superb strength and stiffness and long-lasting durability, AdvanTech subfloors help preserve the structural integrity of natural stone and reduce the risk of cracked tile.

Polyurethane Bonding Strength

Polyurethane formula helps create a solid, firmly bonded surface — exceeding ASTM D3498 and APA AFG-01 subfloor adhesive standards. Floors stay put and quiet, helping reduce the chance of callbacks. When tested to ASTM requirements, AdvanTech™ subfloor adhesive consistently performs 2 to 5 times above standards.⁶

### Technical Data

<table>
<thead>
<tr>
<th>Test</th>
<th>Low</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tack Free Time</td>
<td>20 minutes</td>
<td>24 hours</td>
</tr>
<tr>
<td>Yield at 1/2” Bead Size³</td>
<td>400 linear feet</td>
<td>38 linear feet</td>
</tr>
<tr>
<td>VOC Content</td>
<td>0.15 wt%</td>
<td>0.60 mL</td>
</tr>
<tr>
<td>VOC Compliant⁷</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Vernatex Application Strength

<table>
<thead>
<tr>
<th>ASTM D3498</th>
<th>Pass Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shear Strength Dry Lumber</td>
<td>&gt; 300 psi (requirement &gt; 150)</td>
</tr>
<tr>
<td>Shear Strength Wet Lumber</td>
<td>&gt; 400 psi — Douglas Fir (req &gt; 150) &gt; 450 psi — Southern Pine (req &gt; 150)</td>
</tr>
<tr>
<td>Shear Strength Frozen Lumber</td>
<td>&gt; 300 psi — Douglas Fir (req &gt; 100) &gt; 500 psi — Southern Pine (req &gt; 100)</td>
</tr>
<tr>
<td>Moisture Resistance</td>
<td>&gt; 500 psi (req &gt; 150)</td>
</tr>
<tr>
<td>Gap</td>
<td>&gt; 400 psi (req &gt; 100)</td>
</tr>
<tr>
<td>Oxidation Resistance</td>
<td>Pass</td>
</tr>
</tbody>
</table>

### Panel Specifications

<table>
<thead>
<tr>
<th>Panel</th>
<th>Approx. Weight Per Panel⁴</th>
<th>Panels Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>23/32</td>
<td>78 lbs.</td>
<td>45 pcs.</td>
</tr>
<tr>
<td>1 1/8</td>
<td>120 lbs.</td>
<td>30 pcs.</td>
</tr>
</tbody>
</table>

#### Notes

2. Adheres to wet and frozen wood.
3. Coverage: One 24 oz. can of AdvanTech subfloor adhesive yields approximately 400 linear feet of gel adhesive at 1/2” bead compared to applying a 28 oz. cartridge adhesive at 3/8” bead — 8X more coverage.
5. Limitations and restrictions apply. Guarantees for panel to joist connection on an AdvanTech™ Subfloor Assembly. See SqueakFreeGuarantee.com for details.
7. Estimated panel weight. Actual weight may vary by mill.
A Solid Choice for a Variety of Floor, Roof and Wall Applications

Shear Wall Designs With AdvanTech® Sheathing
Structural 1 rating delivers greater shear resistance to wind and seismic loads.

Tile Roofs Above AdvanTech Sheathing
Strength, durability and fastener-holding power provide an exceptional base for heavy roofing materials.

Flat Roof Application Using AdvanTech Panels
Combined stiffness and moisture resistance defend against edge swell helping reduce low spots that pond water.

Shingles Above AdvanTech Sheathing
Strong moisture-resistant panels install flat and stay flat to help eliminate visible seams so exterior materials look their best.

Double-Layer Floating Subfloors Using AdvanTech
Dimensional stability and consistent quality provides a flat, stable base to keep hardwoods firmly in place.

A Solid Choice for a Variety of Floor, Roof and Wall Applications

Design Bending Strength (FbS)*
Sheathing Panels (lbf/in-ft)

Design Bending Stiffness (EI)*
Sheathing Panels (lbf-in²/ft)

Fastener Withdrawal Calculated Values²*
(dB/inch of thickness)

Performance Category Panel Size PS-2 Span Rating Code Evaluation Report Edge Profile Panel Grade Approx. Weight Per Panel Approx. Panels Per Unit

<table>
<thead>
<tr>
<th>Performance Category</th>
<th>Panel Size</th>
<th>PS-2 Span Rating</th>
<th>Code Evaluation Report</th>
<th>Edge Profile</th>
<th>Panel Grade</th>
<th>Approx. Weight Per Panel</th>
<th>Approx. Panels Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural 1</td>
<td>1/2</td>
<td>4' x 8'</td>
<td>ESR-1785</td>
<td>SE</td>
<td>Structural 1</td>
<td>54 lbs.</td>
<td>70 pcs.</td>
</tr>
<tr>
<td></td>
<td>5/8</td>
<td>4' x 8'</td>
<td>ESR-1795</td>
<td>SE</td>
<td>Structural 1</td>
<td>67 lbs.</td>
<td>55 pcs.</td>
</tr>
<tr>
<td></td>
<td>23/32</td>
<td>4' x 8'</td>
<td>ESR-1795</td>
<td>SE</td>
<td>Structural 1</td>
<td>78 lbs.</td>
<td>45 pcs.</td>
</tr>
</tbody>
</table>

6. Estimated panel weight. Actual weight may vary by mill. 5/8” sheathing is available in tongued and grooved and square edge.
7. Net face width is 47-1/2” for tongue and groove panels.
8. References to OSB and plywood are to traditional OSB and traditional plywood.
Revolutionized Tight, Dry Building Enclosures

Thanks to our relentless passion for creating better building solutions, ZIP System® building enclosures provide built-in water, air and thermal control along with streamlined installation. As a result, our family of structural and sealing products makes it easy to meet your highest standards, satisfy new energy codes and just plain build better homes.

ZIPSystem.com

Streamline Weatherization With ZIP System® Sheathing and Tape.

**Speed and Ease of Installation**
ZIP System sheathing and tape is easier to install than traditional housewrap and felt, helping save money on labor costs and improve project cycle times.

**Factory-Bonded Water-Resistive Barrier**
By achieving optimal levels of permeability and drainage, ZIP System sheathing and tape protects against water intrusion, while still allowing the panels to properly dry.

**Continuous Air Barrier**
ZIP System sheathing and tape forms a tight barrier against unwanted air leakage, for a durable building envelope that helps promote energy efficiency and increase interior comfort.

**Structural Durability**
ZIP System® panels are available with a Structural 1 rating, so you can get the shear strength to meet seismic and high wind zone requirements.

**Enhanced Thermal Resistance**
The all-in-one ZIP System® R-sheathing panel with a built-in layer of insulation helps add R-value to exterior sheathing with a single easy-to-install panel.

**Peace of Mind**
The ZIP System product line is backed with a 30-year limited warranty¹.

**Award Winning Quality**
ZIP System wall sheathing and tape has been rated #1 in quality every year since 2015 by BUILDER magazine’s annual nationwide survey of builders.

¹. Limitations and restrictions apply. Visit HuberWood.com/warranties to learn more.
A SYSTEM OF INNOVATIVE SOLUTIONS

Each component of our revolutionary structural roof and wall system delivers the high-performance and versatility you need for tight, dry building enclosures.

Structural Solutions*

7/16" Wall Sheathing
See Pages 22 & 23

4' X 8' 4' X 9' 4' X 9' 1-1/8" 4' X 10' 4' X 10' 1-1/8"

1/2" Wall Sheathing
See Pages 22 & 23

4' X 8' 4' X 9' 4' X 10'

5/8" Sheathing
See Pages 26 & 27

4' X 8' 4' X 9' 4' X 10'

R-Sheathing
See Pages 24 & 25

4' X 8' 4' X 9' 4' X 10'
R-3.6 (1") R-6.6 (1-1/2") R-9.6 (2") R-12.6 (2-1/2")

1/2" Wall Sheathing
See Pages 22 & 23

4' X 8' 4' X 9' 4' X 10'

Liquid Flash
See Page 31

10.3 OZ. LIQUID FLASH 20 OZ. LIQUID FLASH 29 OZ. LIQUID FLASH LIQUID FLASH APPlicators

3 ¾" X 90'
VP Flashing Tape
See Page 32

VP FLASHING TAPE

Peel and Stick Underlayment
See Page 33

3" X 66" PEEL AND STICK UNDERLAYERMENT

*Check with your local supplier for thickness availability in your market.

Flashing Solutions

Flashing Tape
See Pages 28 & 29

3 ¾" X 30’ FLASHING TAPE 6” X 75’ FLASHING TAPE 9” X 50’ FLASHING TAPE 12” X 50’ FLASHING TAPE 3 ¾” X 90’ FLASHING TAPE

Flashing Tape Applicators

Stretch Tape
See Page 30

3” X 20’ STRETCH TAPE 6” X 20’ STRETCH TAPE 10” X 20’ STRETCH TAPE 6” X 75’ STRETCH TAPE 10” X 75’ STRETCH TAPE

Liquid Flash
See Page 31

10.3 OZ. LIQUID FLASH 20 OZ. LIQUID FLASH 29 OZ. LIQUID FLASH LIQUID FLASH APPlicators

Peel and Stick Underlayment
See Page 33

3" X 66" PEEL AND STICK UNDERLAYERMENT

*Registration Required. Leak-Free Guarantee applies only when using a ZIP System Roof® Assembly. See LeakFreeGuarantee.co for details and the definition of a ZIP System Roof Assembly.

Each component of our revolutionary structural roof and wall system delivers the high-performance and versatility you need for tight, dry building enclosures.
ZIP IT TIGHT™ With a Variety of Cladding Materials

ZIP System® sheathing and tape provides an excellent substrate for wall claddings including brick, siding, stucco or cedar shingles. The panels install flat and stay flat, ensuring a finished wall that looks as good as it performs.

BIM collateral available at HuberWood.com.

Protect Your Build From the Elements

1. Integrated water-resistant barrier
2. Self-spacing edge profile
3. Continuous rigid air barrier
4. Eliminates the need for housewrap

Although all projects are unique, experience has shown that 1 roll of 3-3/4" ZIP System™ flashing tape is needed for approximately 5-7 sheets of 4' x 8' ZIP System® sheathing. This should only be considered a general “rule of thumb” when ordering materials with the understanding that some jobs may require more or less depending on the specific project.

BIM collateral available at HuberWood.com.

ZIP SYSTEM® WALL SHEATHING

ZIP SYSTEM® LONG LENGTH SHEATHING: TALLER, TOUGHER AND FEWER SEAMS

Get all the benefits of engineered wood long length wall sheathing, with the built-in moisture and air leakage protection of ZIP System® sheathing and tape technology. ZIP System long length sheathing and wind zone panels provide the flexibility of a longer panel with the ability to eliminate housewrap when used with ZIP System tape.

Compare For Yourself Other Long Length Panels ZIP System® Long Length Panels ZIP System® Wind Zone Panels

- More efficient panel installation
  - X
  - X

- Helps eliminate blocking at horizontal panel seams
  - X
  - X

- Fewer horizontal seams
  - X
  - X

- Less panel cutting and waste
  - X
  - X

- Can be designed to resist combined uplift and shear
  - X
  - X

- Can eliminate the need for housewrap with built-in, vapor-permeable, water-resistive barrier
  - X
  - X

- Continuous rigid air barrier decreases unwanted air leakage for greater energy efficiency
  - X
  - X

- Backed by a 30-year Limited Warranty
  - X
  - X

- Long length panel, water-resistive barrier, air barrier and seam sealer are an engineered system from the same manufacturer
  - X
  - X

- Structural 1 rating for 7/16", 1/2" and 5/8" sizes
  - X
  - X

<table>
<thead>
<tr>
<th>ZIP System® Long Length Sheathing and Wind Zone Panels</th>
<th>Other Long Length Panels</th>
<th>ZIP System® Long Length Panels</th>
<th>ZIP System® Wind Zone Panels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shathing</td>
<td>7/16</td>
<td>4' x 8'</td>
<td>80</td>
</tr>
<tr>
<td>1/2</td>
<td>4' x 10'</td>
<td>70</td>
<td>42/16 Structural 1</td>
</tr>
<tr>
<td>5/8</td>
<td>4' x 12'</td>
<td>55</td>
<td>40/20 Structural 1</td>
</tr>
<tr>
<td>Long Length</td>
<td>7/16</td>
<td>4' x 9'</td>
<td>70</td>
</tr>
<tr>
<td>1/2</td>
<td>4' x 9'</td>
<td>62</td>
<td>60</td>
</tr>
<tr>
<td>Wind Zone</td>
<td>7/16</td>
<td>4' x 9' 1-1/8&quot;</td>
<td>80</td>
</tr>
<tr>
<td>1/2</td>
<td>4' x 9' 1-1/8&quot;</td>
<td>70</td>
<td>60</td>
</tr>
<tr>
<td>5/8</td>
<td>4' x 12' 1-1/8&quot;</td>
<td>52</td>
<td>60</td>
</tr>
</tbody>
</table>

2. Long length panels are permitted for wall applications only. Limitations and restrictions apply. View the ZIP System® Wall Residential Warranty and/or Commercial Warranty at HuberWood.com for more details.
3. 5/8”, 1/2” and 10’ panels available by special order.

*Available with minimum order quantity. Contact your Huber representative for more details.
ZIP SYSTEM® R-SHEATHING:
INSULATES AND PROTECTS

ZIP System R-sheathing is the simple all-in-one structural panel with built-in exterior polyisocyanurate insulation. Featuring integrated moisture, air and thermal protection, ZIP System R-sheathing completely reimagines traditional wall assemblies by streamlining exterior water, air and thermal management.

Available in R-3, R-6, R-9 and R-12 values and three lengths – 8ft, 9ft and 10ft – to suit all climate zones.

<table>
<thead>
<tr>
<th>Panel Type</th>
<th>Nominal Total Thickness</th>
<th>Panel Size</th>
<th>Panel Count</th>
<th>R-value</th>
<th>Code Evaluation Report</th>
<th>Air Barrier Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-3</td>
<td>1&quot;</td>
<td>4’ x 8’</td>
<td>32</td>
<td>3.6</td>
<td>ESR 3373</td>
<td>ER 482</td>
</tr>
<tr>
<td>R-6</td>
<td>1-1/2&quot;</td>
<td>4’ x 9’</td>
<td>31</td>
<td>6.6</td>
<td>ESR 3373</td>
<td>ER 482</td>
</tr>
<tr>
<td>R-9</td>
<td>2&quot;</td>
<td>4’ x 10’</td>
<td>23</td>
<td>9.6</td>
<td>ESR 3373</td>
<td>ER 482</td>
</tr>
<tr>
<td>R-12</td>
<td>2-1/2&quot;</td>
<td>4’ x 10’</td>
<td>18</td>
<td>12.6</td>
<td>ESR 3373</td>
<td>ER 482</td>
</tr>
</tbody>
</table>

**Foil Performance**

<table>
<thead>
<tr>
<th>Property</th>
<th>TEST Method</th>
<th>Typical Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensional Stability</td>
<td>ASTM D 2126</td>
<td>&lt; 2%</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM D 1621</td>
<td>20 psi</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM C 209, ASTM D 2434</td>
<td>&lt; 1%</td>
</tr>
<tr>
<td>Water Vapor Transmission</td>
<td>ASTM E 96</td>
<td>0.56 perm (Method A) 1.29 perm (Method B)</td>
</tr>
<tr>
<td>Density</td>
<td>ASTM D 1622</td>
<td>Nominal 2.0 pcf</td>
</tr>
<tr>
<td>Flame Spread</td>
<td>ASTM E 84</td>
<td>40-60</td>
</tr>
<tr>
<td>Smoke Developed</td>
<td>ASTM E 84</td>
<td>50-170</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D 1623</td>
<td>&gt; 730 psi</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>-40°F – 200°F</td>
<td></td>
</tr>
</tbody>
</table>

**Core Requirements**

<table>
<thead>
<tr>
<th>Property</th>
<th>TEST Method</th>
<th>Typical Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Resistance of Coatings</td>
<td>ASTM D 2247 (for 14 days)</td>
<td>Passed</td>
</tr>
<tr>
<td>Drainage Efficiency</td>
<td>ASTM E 2273</td>
<td>&gt; 90%</td>
</tr>
<tr>
<td>Water Vapor Transmission</td>
<td>ASTM E 96B</td>
<td>12-16 perms (overlay)</td>
</tr>
<tr>
<td>Water Penetration</td>
<td>ASTM E 331</td>
<td>Passed</td>
</tr>
<tr>
<td>Air Barrier Assembly</td>
<td>ASTM E 2357</td>
<td>0.008 cfm/ft (0.039 L/s<em>m²) infiltration 0.005 cfm/ft (0.023 L/s</em>m²) exfiltration</td>
</tr>
<tr>
<td>Wind-Driven Rain</td>
<td>TAS-100</td>
<td>Passed 1.10mpg</td>
</tr>
<tr>
<td>Accelerated Weathering</td>
<td>ASTM G154 (Cycle 1)</td>
<td>Passed</td>
</tr>
</tbody>
</table>

Long term thermal resistance values of the foam were determined in accordance with ASTM C 1289-02. The R-Value of 0.55 for 7/16” OSB was obtained from ASHRAE Handbook, Fundamentals.

**Fastening Requirements for Prescriptive Bracing**

<table>
<thead>
<tr>
<th>Panel Type</th>
<th>Nominal Total Thickness</th>
<th>Panel Size</th>
<th>Panel Count</th>
<th>R-value</th>
<th>Code Evaluation Report</th>
<th>Air Barrier Assembly</th>
</tr>
</thead>
<tbody>
<tr>
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<td>4’ x 8’</td>
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<td>ER 482</td>
</tr>
<tr>
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<td>1-1/2&quot;</td>
<td>4’ x 9’</td>
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<td>6.6</td>
<td>ESR 3373</td>
<td>ER 482</td>
</tr>
<tr>
<td>R-9</td>
<td>2&quot;</td>
<td>4’ x 10’</td>
<td>23</td>
<td>9.6</td>
<td>ESR 3373</td>
<td>ER 482</td>
</tr>
<tr>
<td>R-12</td>
<td>2-1/2&quot;</td>
<td>4’ x 10’</td>
<td>18</td>
<td>12.6</td>
<td>ESR 3373</td>
<td>ER 482</td>
</tr>
</tbody>
</table>

**Foam Performance**

<table>
<thead>
<tr>
<th>Property</th>
<th>TEST Method</th>
<th>Typical Results</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Density</td>
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<td>Nominal 2.0 pcf</td>
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<tr>
<td>Flame Spread</td>
<td>ASTM E 84</td>
<td>40-60</td>
</tr>
<tr>
<td>Smoke Developed</td>
<td>ASTM E 84</td>
<td>50-170</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D 1623</td>
<td>&gt; 730 psi</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>-40°F – 200°F</td>
<td></td>
</tr>
</tbody>
</table>

**Fastening Specifications**

<table>
<thead>
<tr>
<th>Framing</th>
<th>Fasteners</th>
<th>Edge/Field Spacing (in.)</th>
<th>Minimum Penetration (in.)</th>
<th>Allowable Seismic Controlled Shear Values (plf)</th>
<th>Allowable Wind Controlled Shear Values (plf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-3</td>
<td>2-by-4</td>
<td>24</td>
<td>0.131” shank nails</td>
<td>4/12</td>
<td>1.5</td>
</tr>
<tr>
<td>R-3</td>
<td>2-by-4</td>
<td>24</td>
<td>0.131” shank nails</td>
<td>3/12</td>
<td>1.5</td>
</tr>
<tr>
<td>R-3</td>
<td>2-by-4</td>
<td>16</td>
<td>1/8ips staples, 7/16” crown, 2” length</td>
<td>3/6</td>
<td>1.0</td>
</tr>
<tr>
<td>R-6</td>
<td>2-by-4</td>
<td>24</td>
<td>0.131” shank nails</td>
<td>4/12</td>
<td>1.5</td>
</tr>
<tr>
<td>R-6</td>
<td>2-by-4</td>
<td>24</td>
<td>1/8ips staples, 7/16” crown, 2.5” length</td>
<td>3/6</td>
<td>1.0</td>
</tr>
<tr>
<td>R-6</td>
<td>2-by-4</td>
<td>24</td>
<td>0.131” shank nails</td>
<td>3/12</td>
<td>1.5</td>
</tr>
<tr>
<td>R-9</td>
<td>2-by-4</td>
<td>24</td>
<td>0.131” shank nails</td>
<td>3/12</td>
<td>1.5</td>
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<tr>
<td>R-12</td>
<td>2-by-4</td>
<td>24</td>
<td>0.131” shank nails</td>
<td>3/12</td>
<td>1.5</td>
</tr>
</tbody>
</table>

For SI: Inch = 25.4mm; 1 pound per foot (ppf) = 14.59 N/m.

1. Structural design values can be found in ESR-3373.
2. Prescriptive bracing requirements under the 2021 IRC.
3. Not approved for use as prescriptive wall bracing where wind design is required by IRC 601.2.1.1.
4. Engineered shear wall requirements with Douglas Fir-Larch Framing under the 2021 IBC.
5. Fasteners must be common nails or equivalent, or staples, of a type generally used to attach wood sheathing.
6. ZIP System R-sheathing used as the lateral resistance system in seismic zones D 0, D1, D2 and E should be designed in accordance to ER-482.
7. This panel and fastening configuration is applicable to the prescriptive bracing requirements under the 2021 IRC.
PROTECTION, PERFORMANCE AND PEACE OF MIND

ZIP System® sheathing and tape delivers a sealed roof deck and integrated underlayment built into every panel. Build with confidence knowing your roof has a continuous water-resistant barrier, and capture the financial and scheduling benefits of immediate rough dry-in with ZIP System™ flashing tape.

Protect Your Build From the Elements

1. Integrated roof underlayment
2. Sealed roof deck with ZIP System flashing tape
3. Continuous rigid air barrier assembly

Compatible With Any Roof Covering and Underlayment

ZIP System® sheathing and tape provide an excellent roof underlayment system to receive many finished roof coverings including metal, tile and asphalt shingles, fiberglass shingles or cedar shingles. The panels lie flat and stay flat, ensuring a finished roof that looks as good as it performs.

In applications where two underlayment layers are required, ZIP System® sheathing and tape counts as one layer in the process.

Protection, Performance and Peace of Mind

WATER ABSORPTION

<table>
<thead>
<tr>
<th>Panel Size</th>
<th>7/16&quot; panel</th>
<th>1/2&quot; panel</th>
<th>5/8&quot; panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>11.3</td>
<td>12.0</td>
<td>15.2</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>38.8</td>
<td>36.7</td>
<td>31.3</td>
</tr>
</tbody>
</table>

EDGE SWELL

<table>
<thead>
<tr>
<th>Panel Size</th>
<th>7/16&quot; panel</th>
<th>1/2&quot; panel</th>
<th>5/8&quot; panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>17.1</td>
<td>15.2</td>
<td>13.1</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>38.7</td>
<td>36.7</td>
<td>31.3</td>
</tr>
</tbody>
</table>

1. Reference to OSB are to PS-2 grade-stamped commodity OSB.
2. 24 Hour soak.
3. Test results are based on a sample size of 30 large panel specimens for flexure, water properties and nail withdrawal. All test samples were manufactured from southern yellow pine. All samples including 1/2" and 5/8" ZIP System™ panels were randomly selected from Georgia-based retail lumberyards in 2019. It should be noted that commodity OSB panel attributes can vary depending on manufacturing location and wood species. All testing was conducted in accordance with ASTM D1037. Products were tested by a third-party laboratory that specializes in wood product evaluation.

Performance Category

<table>
<thead>
<tr>
<th>Panel Size</th>
<th>Panel Count</th>
<th>PS-2 Span Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16&quot;</td>
<td>80</td>
<td>24/16 Structural 1</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>70</td>
<td>32/16 Structural 1</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>55</td>
<td>40/20 Structural 1</td>
</tr>
</tbody>
</table>

1. Sheathing panels stamped with Structural 1 panel grade are required to meet or exceed racking shear and cross-panel strength and stiffness listed within the Voluntary Product Standard (VPS) for Wood-Based Structural-Use Panels.
3. Limitations and restrictions apply. View the ZIP System® Roof Residential Warranty at HuberWood.com, or Commercial Warranty for ZIP System® Roof at HuberWood.com/commercial-warranty-system-roof for more details.
4. H-clips are required in roof applications for ZIP System 7/16" panels where roof framing is greater than 16" on center.
For easy-to-achieve, continuous air and water barriers in roof and wall assemblies, no matter what the turn, twist, curve or corner, seal it in a flash with ZIP System™ sealing solutions.

An integral part of ZIP System® roof and wall assemblies, ZIP System™ flashing tapes feature pressure-activated advanced acrylic adhesive. When used with ZIP System® panels, ZIP System flashing tapes help form a strong, weather-resistant, continuous barrier backed by a 30-year Limited Warranty and 180-day Exposure Guarantee.¹


3. When applied in accordance with ZIP System® sheathing and tape Installation Manual instructions available on ZIPSystem.com.

One roll of 3 3/4” ZIP System™ flashing tape is needed for approximately 4-5 sheets of 4' x 8' ZIP System® sheathing. This should only be considered a general “rule of thumb” when ordering materials with the understanding that some jobs may require more or less depending on the specific project.

### ZIP System™ Flashing Tape

<table>
<thead>
<tr>
<th>Nominal Width</th>
<th>Roll Length</th>
<th>Tape Thickness</th>
<th>Adhesive Technology</th>
<th>Code Evaluation Report</th>
<th>Installation Temperature Range</th>
<th>Exposure</th>
<th>Tensile Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 3/4”</td>
<td>30’</td>
<td>90’</td>
<td>Acrylic</td>
<td>ESR 2227</td>
<td>0°F – 120°F</td>
<td>180 Days</td>
<td>938 psi</td>
</tr>
<tr>
<td>6”</td>
<td>75’</td>
<td>90’</td>
<td>Acrylic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9”</td>
<td>50’</td>
<td>90’</td>
<td>Acrylic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12”</td>
<td>30’</td>
<td>90’</td>
<td>Acrylic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Limited use or application. Joint use with ZIP System® sheathing and tape installation manual.

**ZIP System™ Flashing Tape**

**Slip-resistant**
- Top layer provides slip-resistant tack during installation for safety.

**Weather Protection**
- Thick inner layer offers dimensional stability.
- Antioxidants for durability.

**Long-Term Durability**
- Bonding layer specially formulated to bond with the adhesive for durability.

**Advanced Adhesion**
- Consistent adhesion even under harsh weather conditions.
- Backed by 30-year Limited Warranty and 180-day Exposure Guarantee, when used with ZIP System™ sheathing³.
- Resists heat and UV light and creates long-lasting bond strength.

**Water-Resistant Barrier when Used with ZIP System® Sheathing**

**Works on a Variety of Surfaces**

**Repositionable Material**

**Cold Temperature Application as Low as 0°F**

**Advanced Acrylic Adhesion Delivers Exceptional Bonding**

**180-Day Exposure Guarantee**

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ZIP System™ Stretch Tape

ZIP System stretch tape easily stretches to fit sills, curves and corners with a single piece without having to piece tape segments together. Made of a high-performance composite acrylic, the tape conforms to challenging applications and locks out moisture even over mismatched surfaces.

Stretches to Fit
Easily stretches to conform to corners and curves.

Excellent Moisture Barrier
Provides a strong, tight bond for an effective seal, even around fasteners.

Laborsaving
Eliminates the need to piece tape segments together in challenging applications.

Repositionable
Can be pulled up and reapplied for hassle-free installation.

Versatile
Ideal for your toughest applications including curved windows and wall penetrations.

ZIP System™ Liquid Flash

ZIP System liquid flash is a fluid-applied membrane that easily flows into recessed windows and around penetrations and other hard-to-flash areas, in addition to sealing transitions from wall sheathing to foundations. Plus, the moisture-curing formula helps complete exteriors in the toughest conditions.

Optimal Viscosity
Liquid Flash can be used as an optional seam treatment for ZIP System® Roof and Wall. It flows easily to seal irregular shapes and surfaces.

Quick Cure Time
Water-resistant and tack-free in as quick as 20–40 minutes, depending on conditions. Target thickness achieved when substrate is no longer visible.

Weather protection
Backed by 30-year Limited Warranty and 180-day Exposure Guarantee, when used with ZIP System® sheathing.

Proper Adhesion to a Wide Range of Surfaces
Bonds to wood, concrete, masonry, architectural metals, glass, PVC, FRP, EPDM and most other building materials.

ZIP System™ Liquid Flash Packaging

ZIP System™ Stretch Tape

Nominal Width Roll Length Tape Thickness Code Evaluation Report Installation Temperature Range Exposure Tensile Strength

3” 20’ 42 mils ER-365 0°F – 120°F 180 Days 625 psi

6” 20’ 75” 10.3 oz. Cartridge 10 ft (approx. three 3’0” window sills)

12-15 mils STP Polymer
ASTM E331: Pass
ASTM E2357: Pass
35°F – 110°F
ESR 4597
180 Days
20–40 min.4
12 mils in 4 Hours4
23-24 perms at 15 mils thickness

ZIP System™ Liquid Flash

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>29 oz. Cartridge</td>
<td>29 ft (approx. nine 3’0” window sills)</td>
<td>12-15 mils</td>
<td>STP Polymer</td>
<td>ASTM E331: Pass</td>
<td>ESR 4597</td>
<td>180 Days</td>
<td>20–40 min.</td>
<td>12 mils 4 Hours</td>
<td>23-24 perms at 15 mils thickness</td>
</tr>
<tr>
<td>20 oz. Sausage</td>
<td>20 ft (approx. six 3’0” window sills)</td>
<td>12-15 mils</td>
<td>STP Polymer</td>
<td>ASTM E331: Pass</td>
<td>ESR 4597</td>
<td>180 Days</td>
<td>20–40 min.</td>
<td>12 mils 4 Hours</td>
<td>23-24 perms at 15 mils thickness</td>
</tr>
<tr>
<td>10.3 oz. Cartridge</td>
<td>10 ft (approx. three 3’0” window sills)</td>
<td>12-15 mils</td>
<td>STP Polymer</td>
<td>ASTM E331: Pass</td>
<td>ESR 4597</td>
<td>180 Days</td>
<td>20–40 min.</td>
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3. When applied in accordance with ZIP System® sheathing and tape Installation Manual instructions available on ZIPSystem.com.

STRETCHES IN ANY DIRECTION

WINDOW SILL

WALL PENETRATION

CURVED WINDOW

ZIP System™ Liquid Flash

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Weather protection
Backed by 30-year Limited Warranty and 180-day Exposure Guarantee, when used with ZIP System® sheathing.

Proper Adhesion to a Wide Range of Surfaces
Bonds to wood, concrete, masonry, architectural metals, glass, PVC, FRP, EPDM and most other building materials.
High-Performance, Higher Permeance

The new ZIP System™ VP flashing tape rounds out a portfolio of sealing materials that include a wide variety of 15 different straight and “stretch” tapes, as well as fluid-applied flashing offerings. ZIP System VP flashing tape offers all the benefits of standard ZIP System™ flashing tape with a high-powered acrylic adhesive and broad temperature application range, with the added feature of a higher permeance¹ for teams seeking to increase this factor for unique designs or environments.

The high-performing professional tape is used in panel seam sealing and flashing applications, key components of a ZIP System® wall assembly using integrated ZIP System® R-sheathing.

**ZIP System™ VP Flashing Tape**

<table>
<thead>
<tr>
<th>Nominal Width</th>
<th>Roll Length</th>
<th>Tape Thickness</th>
<th>Adhesive Technology</th>
<th>Installation Temperature Range</th>
<th>Exposure</th>
<th>Vapor Permeance</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-3/4”</td>
<td>90’</td>
<td>15 mils</td>
<td>Acrylic</td>
<td>0°F – 120°F</td>
<td>180 Days</td>
<td>3 perms¹</td>
</tr>
</tbody>
</table>

1. ZIP System™ flashing tapes are < 1 perms; ZIP System™ VP Tape is 3 perms when tested in accordance with ASTM E96 B.


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**ZIP System™ Peel and Stick Underlayment**

<table>
<thead>
<tr>
<th>Type</th>
<th>Total Coverage</th>
<th>Width</th>
<th>Adhesive Technology</th>
<th>Code Evaluation Report</th>
<th>Service Temperature Application</th>
<th>Exposure</th>
<th>Permeance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>200 ft²</td>
<td>36” x 60’</td>
<td>Rubberized Asphalt</td>
<td>ES4-R904</td>
<td>180°F</td>
<td>90 days</td>
<td>ASTM E96 ≤ 0.05 perms</td>
</tr>
<tr>
<td>High Temperature</td>
<td>200 ft²</td>
<td>36” x 60’</td>
<td>Rubberized Asphalt</td>
<td>ES4-R904</td>
<td>260°F</td>
<td>120 days</td>
<td>ASTM E96 ≤ 0.05 perms</td>
</tr>
</tbody>
</table>

* Registration Required. Leak-Free Guarantee applies only when using a ZIP System® Roof Assembly. See LeakFreeGuarantee.co for details and the definition of a ZIP System® Roof Assembly.

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When you register and combine revolutionary ZIP System® sheathing, tape and peel and stick underlayment, you can receive multiple layers of protection against damaging water leaks that can occur from ice or wind-driven rain. Register your eligible project at: zipleakfreeguarantee.com

Roof assemblies built with ZIP System sheathing and tape or ZIP System® peel and stick underlayment may be eligible for designation as a FORTIFIED Roof™ sealed roof deck. FORTIFIED® is a voluntary set of above-code design, building and retrofitting standards developed by the Insurance Institute for Business & Home Safety (IBHS) to strengthen homes against severe weather. A FORTIFIED Roof™ designation requires a successful evaluation and compliance with all IBHS program requirements. IBHS is not responsible or liable for the performance of ZIP System products. Learn more at Fortifiedhome.org/roof.
MAGNESIUM OXIDE (MGO) OFFERS STRENGTH AND EASY INSTALLATION

Fast-forward through complex builds with EXACOR® panels—high-performance, high-quality solutions for subflooring, underlayment and wall sheathing assemblies. They’re specifically engineered with the structural, acoustical, fire-rated and dimensional stability performance needs of today’s jobsite in mind.

Primarily made from MgO and added compounds, EXACOR is a cementitious panel product embedded with layers of glass fiber mesh for added structural capacity. The result is a streamlined solution for meeting your sound, fire and strength requirements.

Benefits of EXACOR® Panels

- **Speed and Ease Of Installation**
  Third-party time testing showed EXACOR® panels can be installed 30% faster than a traditional wet-laid gypsum assembly in underlayment applications and only require a single trade.²

- **Dimensional Stability**
  Up to 200 day exposure rating, not brittle or fragile like other cementitious boards.

- **Inherent Strength**
  Contains a proprietary layered mesh reinforcement for added structural value.

- **Sound Absorption**
  Can help achieve sound ratings when used as a part of STC/IIC-tested floor/ceiling assembly.

- **Quality Assurance**
  Manufactured in a quality-controlled environment audited by NTA and UL to maintain consistency.

- **Fire Resistance**
  Provides fire resistance¹ as part of a floor, ceiling or wall assembly.

- **Optimize Material and Labor Cost**
  High-performing and time-saving materials with fewer trades needed to install.

Access the Full Range of Benefits for Your Build

Our Enhanced Experience streamlines the management of product warranties for your build and may provide limited transferable protection on your investment in high-performing building materials.

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¹ EXACOR panels may be used in specific published fire resistance-rated assemblies as tested in accordance with ASTM E119/ANSI UL 263. Follow published fire resistance-rated assembly requirements and consult local building codes and designer of record for fire-resistant design requirements.

² Based on a 2021 third-party time-study conducted on a 1440 sq ft. wood-framed three-story system and replicating a commonly specified multi-family sound-rated floor assembly.
Magnesium oxide (MgO) boards offer simple strength and streamlined installation for building panels with exceptional workability.

**Structural Solutions**

1/2" (12mm) Underlayment

1/2" (12mm) Wall Sheathing

5/8" (16mm) Wall Sheathing
Engineered to achieve sound-ratings without the delays of gypsum underlayment

Unlike gypsum underlayment assemblies that require cure time that can slow or halt construction progress, once EXACOR® underlayment panels are installed over plywood or OSB subfloor by the framer, construction can continue without delay.

When used as part of a STC/IIC tested floor/ceiling assembly, EXACOR underlayment panels can also help provide the fire and sound ratings you need for your build without the need for wet-laid gypsum.

We’re committed to providing our customers with high-quality, reliable, consistent products. To achieve those standards, EXACOR panels are manufactured in a quality-controlled environment, and audited by ICC-ES and UL to maintain manufacturing consistency you can depend on, board after board.

Underlayment that Overcomes Jobsite Obstacles

1. 1/2” (12mm) EXACOR Panel
2. 23/32” T&G Wood Structural Panel
3. Min. 12” Deep Wood Trusses Spaced 24” o.c.
4. 3 1/2” Thick Glass Fiber Batt Insulation, Draped
5. Resilient Channel
6. 5/8” Gypsum Panel

We’ve committed to providing our customers with high-quality, reliable, consistent products. To achieve those standards, EXACOR panels are manufactured in a quality-controlled environment, and audited by ICC-ES and UL to maintain manufacturing consistency you can depend on, board after board.

Mold Resistance² (ASTM G21)
0 Mold Growth Observed

Samples received an average growth rating of 0 meaning there was no observed growth on the specimens at the completion of the fungal resistance evaluation.

UL Assemblies - Underlayment

1. L501 (System No. 23), 2. L525 (System No. 16), 3. L528 (System No. 22), 4. L602 (System No. 2)
1. L501 (System No. 23), 2. L525 (System No. 16), 3. L528 (System No. 22), 4. L602 (System No. 2)

Acoustical Performance - EXACOR® Underlayment

<table>
<thead>
<tr>
<th>Finished Flooring</th>
<th>Underlayment</th>
<th>Ceiling Option 1</th>
<th>Ceiling Option 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>1. L501 (System No. 23), 2. L525 (System No. 16), 3. L528 (System No. 22), 4. L602 (System No. 2)</td>
<td></td>
</tr>
</tbody>
</table>

Gypsum Panel

<table>
<thead>
<tr>
<th>STC/IIC</th>
<th>STC IIC STC IIC STC IIC STC IIC STC IIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Score</td>
<td>57 50 58 52 58 53 59 54</td>
</tr>
</tbody>
</table>

UL263 L5281
1-Hour Fire Rated Floor / Ceiling Assembly

<table>
<thead>
<tr>
<th>Flooring Type</th>
<th>Resilient Channel @ 16” On Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>gypsum Panel</td>
<td>5/8” UL263 L5281 Gypsum</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STC/IIC</th>
<th>STC IIC STC IIC STC IIC STC IIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Score</td>
<td>59 47 50 50 59 51 60 52</td>
</tr>
</tbody>
</table>

UL263 L5281
1-Hour Fire Rated Floor / Ceiling Assembly

<table>
<thead>
<tr>
<th>Flooring Type</th>
<th>Resilient Channel @ 12” On Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>gypsum Panel</td>
<td>5/8” Type C Gypsum</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STC/IIC</th>
<th>STC IIC STC IIC STC IIC STC IIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Score</td>
<td>59 47 50 50 59 51 60 52</td>
</tr>
</tbody>
</table>

EXACOR® Panel Dimensions

<table>
<thead>
<tr>
<th>Thickness (12mm)</th>
<th>Panel Size</th>
<th>Edge Profile</th>
<th>Weight (LBS/1F)</th>
<th>PCS/unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2” (12mm)</td>
<td>4’ x 8’ (1219mm x 2438mm)</td>
<td>4’ x 9’ (1219mm x 2743mm)</td>
<td>4’ x 10’ (1219mm x 3048mm)</td>
<td>Straight (Square) Edge</td>
</tr>
</tbody>
</table>

1. See UL listing at www.UL.com for full assembly details and requirements.
2. 1/2” panels tested for mold resistance in accordance with ASTM G21. Other thicknesses have not been tested to date.
**EXACOR® PANELS STREAMLINE SCHEDULES**

### Gypsum Underlayment Process

The gypsum underlayment trade is typically scheduled 6-16 weeks in advance with a firm date that doesn’t allow for construction delays.

<table>
<thead>
<tr>
<th>STAGE</th>
<th>FRAMING</th>
<th>DRY-IN</th>
<th>DRYWALL</th>
<th>GYPSUM PREP, POUR, CURE &amp; SEAL</th>
<th>FINAL DRYWALL</th>
<th>PAINT</th>
<th>CABINETS</th>
<th>GYPSUM PRIMER</th>
<th>FLOORING</th>
</tr>
</thead>
</table>

### EXACOR® Panel Process

- **Complete EXACOR® subfloor assembly, including the optional sound attenuation layer.**
- **Select tub/shower pan directly on EXACOR® to speed up plumbing inspections.**
- Eliminate shoe molding when baseboards are installed at second trim (after finish floor).

### EXACOR® Panels: On Time. On Budget.

![EXACOR® Panels Process Flowchart]

#### CONTRACTOR FLOOR ASSEMBLY COST STRUCTURE*  

<table>
<thead>
<tr>
<th>Category</th>
<th>Cost Breakdown</th>
<th>Approx. $/Square Foot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gypsum Underlayment</td>
<td>L502, M500 (System No. 10)</td>
<td>$0.0</td>
</tr>
<tr>
<td>EXACOR® Subfloor Assembly</td>
<td>L502 (System No. 25), L525 (System No. 17), L601, L602, M500 (System No. 10)</td>
<td>$1.0</td>
</tr>
<tr>
<td>3/4&quot; (20mm) EXACOR Panel</td>
<td>M500 (System No. 10)</td>
<td>$2.0</td>
</tr>
<tr>
<td>3 1/2” Glass Fiber Batt Insulation</td>
<td>None</td>
<td>$3.0</td>
</tr>
<tr>
<td>Resilient Channel @ 12” o.c.</td>
<td>None</td>
<td>$4.0</td>
</tr>
<tr>
<td>5/8” Type C Gypsum Board</td>
<td>None</td>
<td>$5.0</td>
</tr>
</tbody>
</table>

#### Acoustical Performance - EXACOR® Subfloor

<table>
<thead>
<tr>
<th>Floor Covering</th>
<th>None*</th>
<th>2mm LVP</th>
<th>7mm Click Lock LVP with Attached Pad</th>
<th>3/8” Engineered Wood Flooring</th>
<th>Carpet Tile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Attenuation Mat</td>
<td>STC: 54</td>
<td>55</td>
<td>55</td>
<td>56</td>
<td>54</td>
</tr>
<tr>
<td>IIC</td>
<td>39</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>51</td>
</tr>
</tbody>
</table>

*Assembly shown without floor covering for information purposes only. EXACOR® Panels must be covered by a finish flooring material.

#### UL Assemblies - Subfloor


### Mold Resistance² (ASTM G21)

Samples received an average growth rating of 0 meaning there was no observed growth on the specimens at the completion of the fungal resistance evaluation.

<table>
<thead>
<tr>
<th>EXACOR® Panel Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
</tr>
<tr>
<td>3/4&quot; (20mm)</td>
</tr>
</tbody>
</table>

1. See UL listing at UL.com for full assembly details and requirements.
2. 3/4" panels tested for mold resistance in accordance with ASTM G21. Other thicknesses have not been tested to date.

### Key:

1. 3/4" (20mm) EXACOR Panel
2. Min. 18" Deep Open Web Truss space no greater than greater than 16"
EXACOR® wall sheathing is rigorously tested to ensure fire-resistant performance in multifamily builds. In ASTM E84 and ASTM E119/UL 263 fire testing, our high-quality MgO panels were shown to resist the spread of flames and help delay fire from burning through to other materials, helping to protect building structural integrity during a fire event.¹ Unlike coated or treated sheathing, EXACOR panels are fire-resistant throughout, offering protection in harsh conditions.

EXACOR wall sheathing can help optimize material and labor costs, and is easily installed by existing construction crews familiar with installing OSB or plywood sheathing. The panels provide durability and protection in 1 and 2-hour fire-rated wall assemblies.

EXACOR® Panel Properties

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot; (12mm)</td>
<td>4' x 8'</td>
<td>38</td>
<td>2.7</td>
<td>3/8</td>
<td>4/6</td>
<td>270</td>
<td>3/8</td>
<td>MOS-1290-04, MOS-1290-06, MOS-1290-07, MOS-1290-08</td>
<td>ESR-4635</td>
</tr>
<tr>
<td></td>
<td>4' x 9'</td>
<td>33</td>
<td></td>
<td>3/4</td>
<td>5/6</td>
<td>335</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4' x 10'</td>
<td>32</td>
<td></td>
<td>5/8</td>
<td>5/6</td>
<td>335</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/8&quot; (16mm)</td>
<td>4' x 8'</td>
<td>28</td>
<td>3.3</td>
<td>3/8</td>
<td>4/6</td>
<td>265</td>
<td>3/8</td>
<td>MOS-1290-03</td>
<td>ESR-4635</td>
</tr>
<tr>
<td></td>
<td>4' x 9'</td>
<td>25</td>
<td></td>
<td>3/6</td>
<td>5/6</td>
<td>300</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4' x 10'</td>
<td>24</td>
<td></td>
<td>3/4</td>
<td>5/6</td>
<td>340</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ See full assembly for details and requirements.
2. 4’ x 8’=1220mm x 2440mm; 4’ x 9’=1219 mm x 2443 mm; 4’ x 10’=1219 mm x 3048 mm. 
3. Fasteners must be minimum of 0.113-inch x 2-inch hot-dipped ring shank nails with a 3/8" edge distance. No fastener within 2-inches of panel corner. 
4. Prescriptive bracing requirements under the 2021 & 2018 IRC, Intermittent Wall Bracing Method.
5. *Not approved for use as prescriptive wall bracing where wind design is required by R301.2.1.
6. All panel edges must be backer by framing. 
7. Shear walls must have a minimum height-width aspect ratio of 2:1. 
8. For use in Seismic Design A, B and C only. 
9. In accordance with ASTM E119/UL 263, refer to ICC-ES ELS-1290 for full assembly details and requirements.

Build Exterior Wall Assemblies with Strength and Fire Resistance