HUBER ENGINEERED WOODS

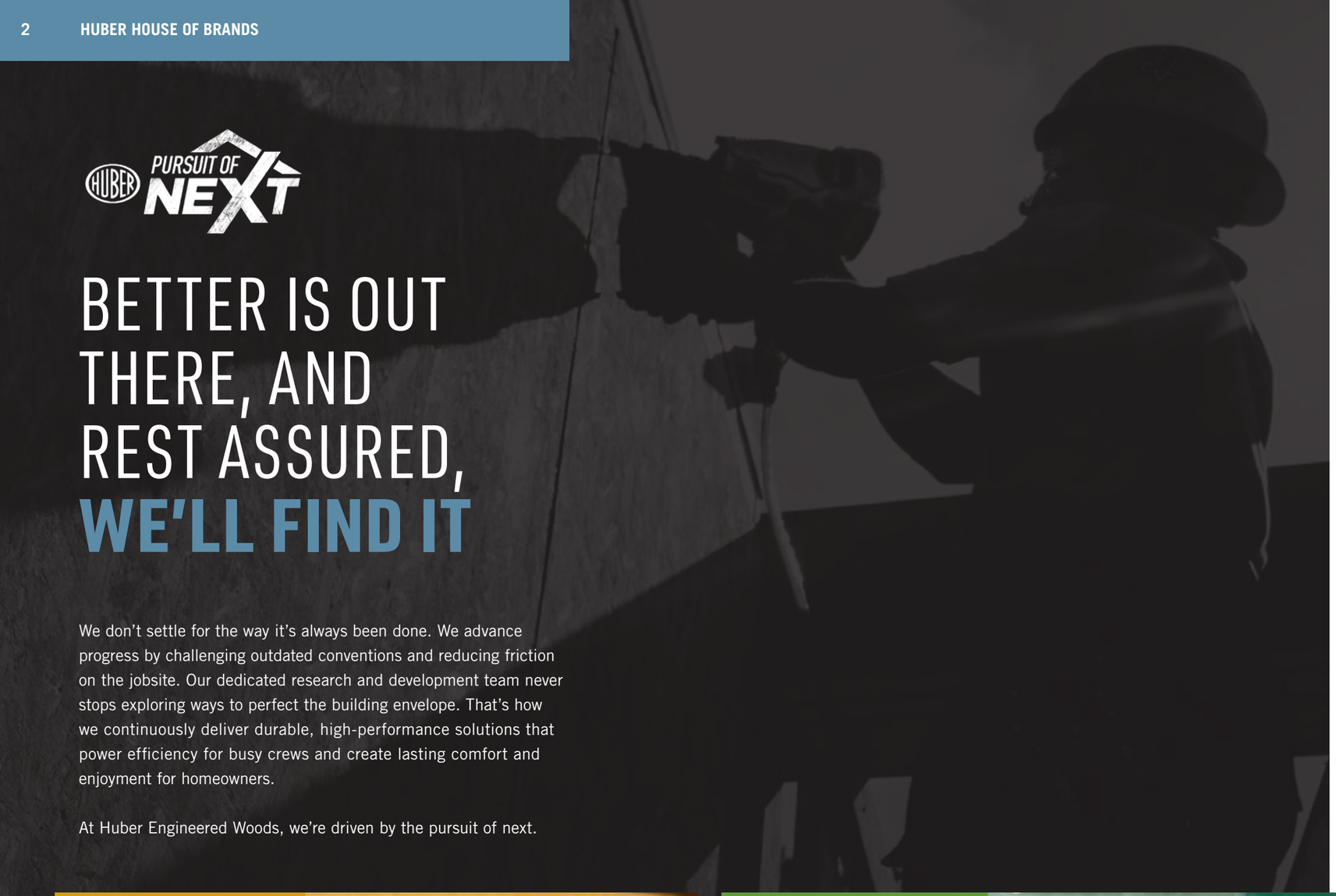
HUBER HOUSE OF BRANDS

AdvanTech™

ZIPsystem™

EXACOR®

INNOVATIVE SOLUTIONS FOR A BETTER BUILD, EVERY TIME



BETTER IS OUT THERE, AND REST ASSURED, **WE'LL FIND IT**

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 We advance progress by challenging outdated conventions and reducing friction on the jobsite.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.

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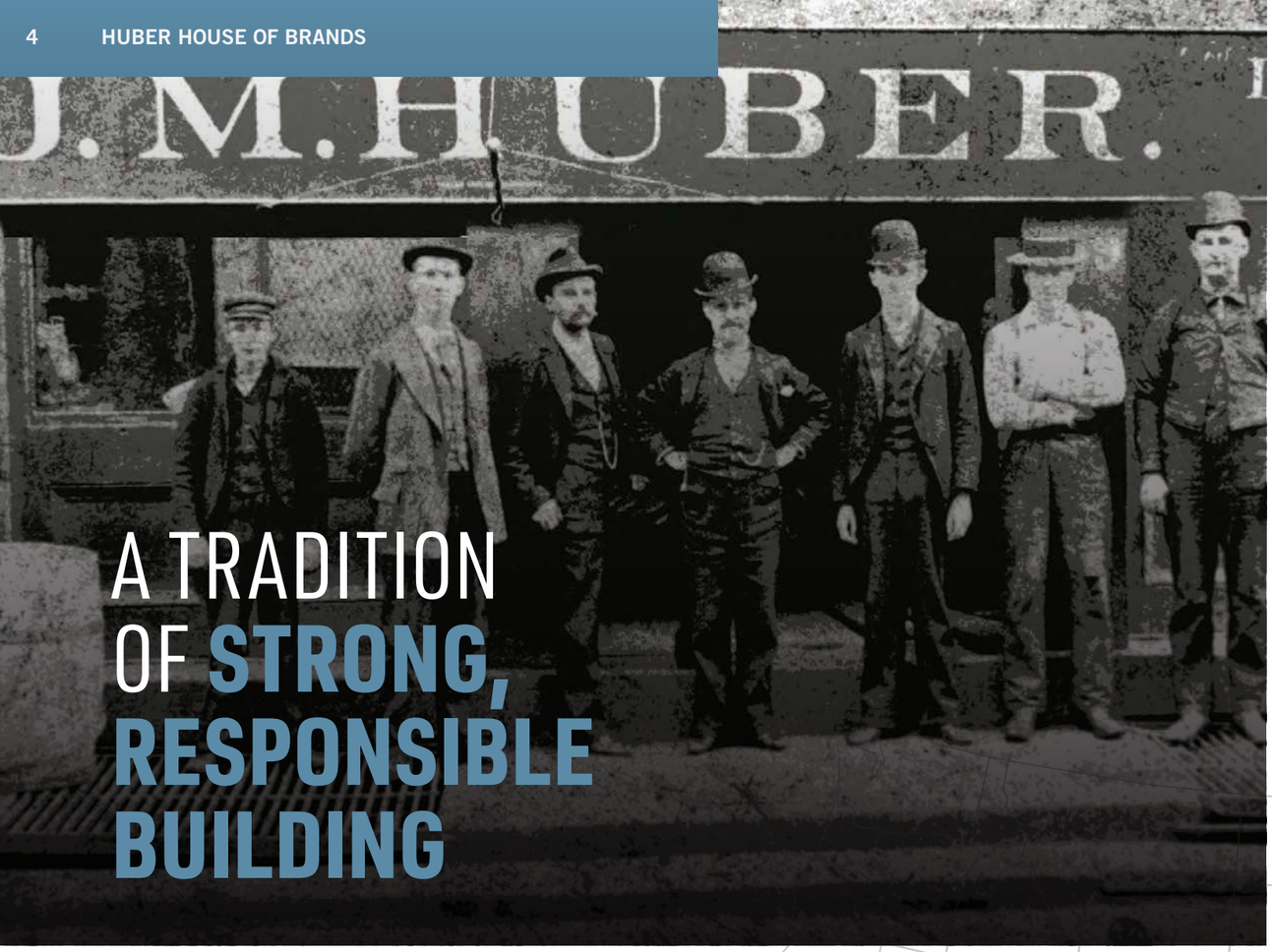


A TRADITION OF **STRONG, RESPONSIBLE BUILDING**

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.**

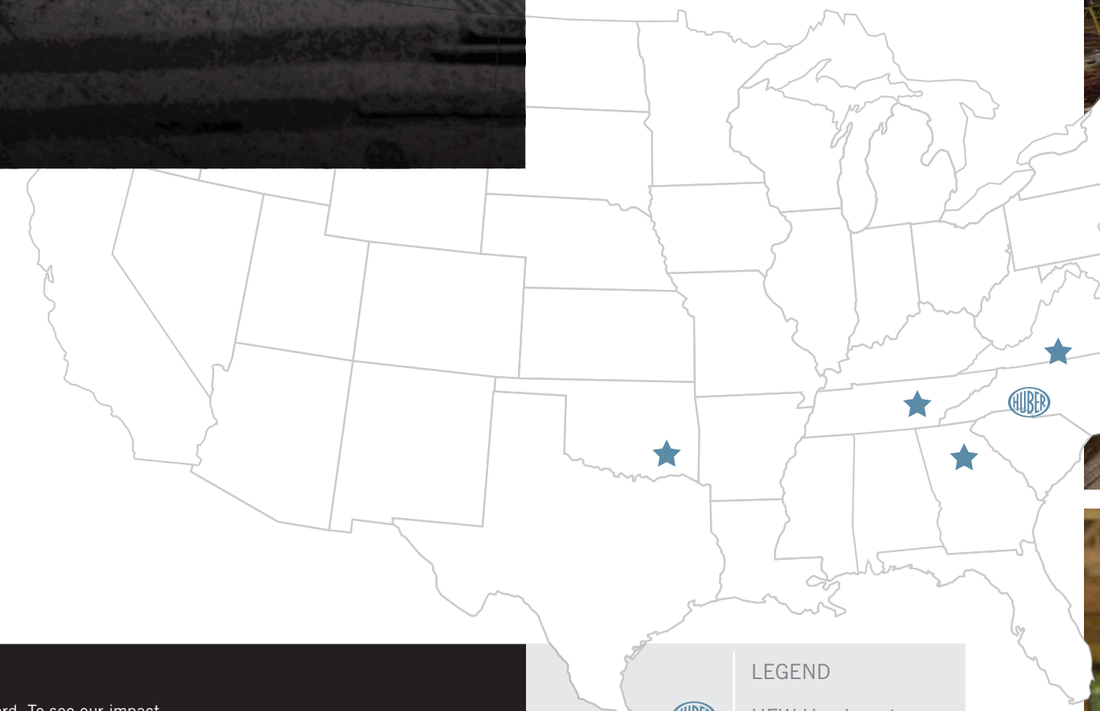
At Huber Engineered Woods, we create innovative and high-performance products that allow your roofs, walls and floors to live up to their full potential. Our engineered wood sheathing and subfloor products help homes and buildings meet today's increasingly demanding codes and discerning property owners, 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.

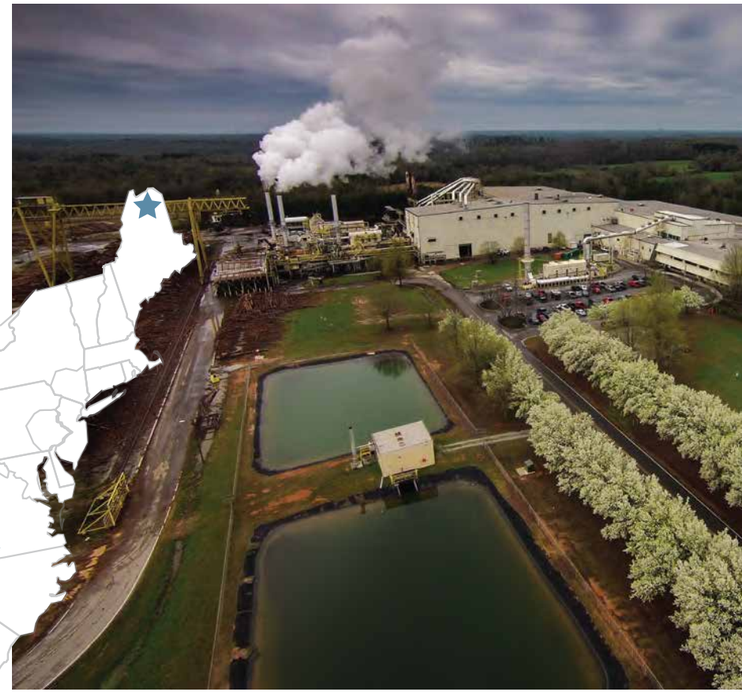
Nationwide Availability

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.**





GET THE MOST OUT OF YOUR FLOORS AND **EVERYTHING YOU BUILD ON TOP OF THEM**

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, guaranteed[1]. Build with award-winning AdvanTech subflooring and rest assured you'll get the FLAT OUT BEST™.

BUILT TO A HIGHER STANDARD ESR-1785

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 Warranty[4]

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

500 DAY WEATHER[4] GUARANTEE

No-Sanding Guarantee[4]

AdvanTech subflooring will stand up to your most demanding jobsites and are backed by a 500-day no-sanding guarantee[4]. Say goodbye to swelling, cupping and delamination.

Voted #1 In Quality[5]

Builders from across the nation have voted AdvanTech subflooring #1 in quality in its category every year for over a decade[5]. That's a reputation you can build on.

Engineered to Bring Performance, Quality and Confidence into Every Floor

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.

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[6].

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.
4. 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.
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

4' X 8'

23/32" Subflooring
See Pages 10-13

4' X 8'

7/8" Subflooring
See Pages 10-13

4' X 8'

1" Subflooring
See Pages 10-13

4' X 8'

1-1/8" Subflooring
See Pages 10-13

4' X 8'

1/2" Sheathing
See Pages 16 & 17

4' X 8'

5/8" Sheathing
See Pages 16 & 17

4' X 8'

23/32" Sheathing
See Pages 16 & 17

4' X 8'

23/32" X-Factor Subflooring
See Pages 15

4' X 8'

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

4' X 8'

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

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

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.

STRENGTH AND STIFFNESS WHERE YOU NEED IT MOST

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.

AdvanTech® Subflooring[1]							
Performance Category	**Panel Size[1]**	**PS-2 Span Rating**	**Code Evaluation Report[3]**	**Edge Profile**	**Panel Grade**	**Approx. Weight Per Panel[2]**	**Panels Per Unit**
19/32	4' x 8'	20 oc	x	T&G	Rated for 19/32"	66 lbs.	55 pcs.
23/32	4' x 8'	24 oc	ESR-1785		Structural 1	78 lbs.	45 pcs.
7/8	4' x 8'	32 oc	x			96 lbs.	40 pcs.
1	4' x 8'	32 oc	x			109 lbs.	35 pcs.
1-1/8	4' x 8'	48 oc	x			125 lbs.	30 pcs.

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 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.

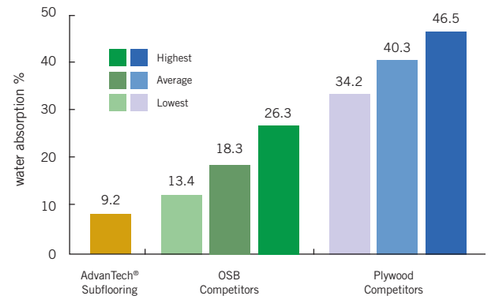
Moisture Resistance During and After Construction

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.

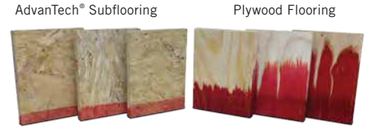
Water Absorption[1]

24 oc Floor Panels



24-Hour Edge Swell Demonstration

3-Hour Wicking Demonstration



Highly Compressed Material

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

Protection Throughout the Entire Panel

Every wood strand is coated with advanced moisture-resistant resins that provide moisture resistance even along freshly cut edges.

Moisture-resistant Resins

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

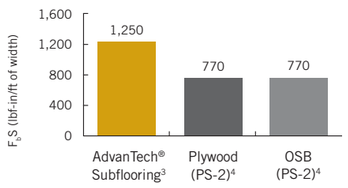
Edge Sealant

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

Advanced Strength, Stiffness and Fastener-Holding Power

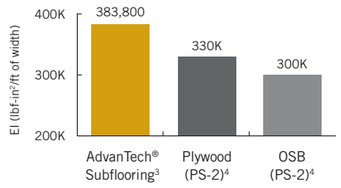
Design Bending Strength (FbS)

24 oc Floor Panels (lbf-in/ft)



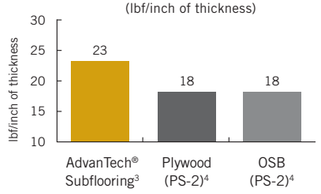
Design Bending Stiffness (EI)

24 oc Floor Panels (lbf-in²/ft)



Fastener Withdrawal Calculated Values[2]

(lbf/inch of thickness)

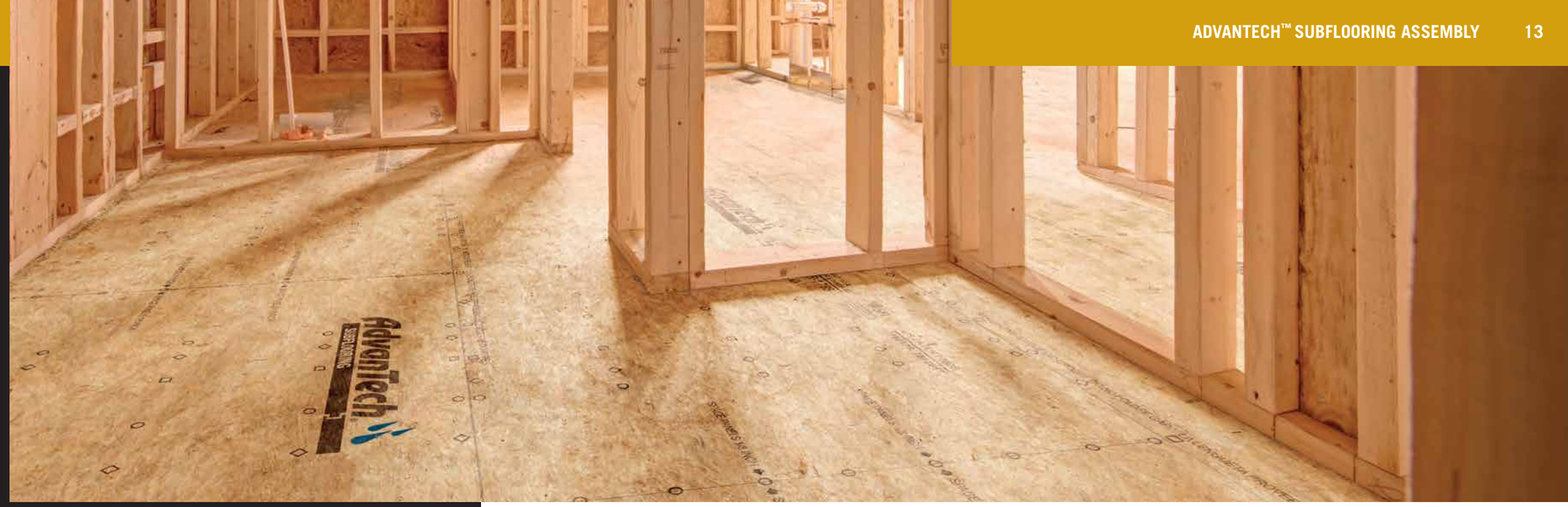


1. All testing was conducted by an independent IAS-accredited testing facility in September 2008. This small sample testing was done in accordance with the applicable ASTM standards and test methods. OSB values are based on lowest, average and highest water absorption levels of four competitors. Plywood value is based on the lowest, average and highest water absorption levels of three 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.
3. Based on the design values published in ICC-ES Evaluation Service Report, ESR-1785 and the 2012 APA Panel Design Specification, Form No. D510C.
4. 2020 APA Panel Design Specification, Form No. D510C.

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.



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[2]

AdvanTech subflooring will stand up to your most demanding jobsites and is backed by a 500-day no-sanding guarantee[2]. Say goodbye to swelling, cupping and delamination.

General Information
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

Flooring Mill Specifications			
Mill	**Panel Thickness (IN)**	**Approx.[1] Weight Per Panel**	**Panels Per Unit**
Easton, ME	19/32 23/32	64 lbs. 72 lbs.	55 pcs. 45 pcs.
Commerce, GA	23/32	76 lbs.	45 pcs.
Crystal Hill, VA	19/32 23/32 1 1-1/8	68 lbs. 78 lbs. 110 lbs. 120 lbs.	55 pcs. 45 pcs. 35 pcs. 30 pcs.
Broken Bow, OK	23/32 7/8 1-1/8	85 lbs. 103 lbs. 123 lbs.	45 pcs. 40 pcs. 30 pcs.
Spring City, TN	23/32	86 lbs.	45 pcs.

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.

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.

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

More Coverage in Each Can

8x greater yield than traditional adhesive caulks[3] 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.

Ideal for Cold and Wet Conditions

Formulated to adhere to wet and frozen structural subfloor panels and joists[1], this moisture curing polyurethane adhesive is the ideal solution for not-so-ideal weather conditions.

Polyurethane Bonding Strength

Polyurethane formula helps create a solid, firmly bonded surface – exceeding ASTM D3498 and APAAFG-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.[1]

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[1]. 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™[2].

- 8X more coverage[3] 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

Technical Data	
Tack Free Time	20 minutes
Fully Cured	24 hours
Yield at 1/2" Bead Size[3]	400 linear feet
Appl. Temperature Range	35°F – 105°F
VOC Content	≤15 w/w %
VOC Content (California)	≤160 g/L
VOC Compliant[4]	Yes

Versatile Application Strength	
ASTM D3498	**Pass Criteria**
Shear Strength Dry Lumber	> 500 psi (requirement >150)
Shear Strength Wet Lumber	> 300 psi — Douglas Fir (req > 150) > 400 psi — Southern Pine (req > 150)
Shear Strength Frozen Lumber	> 300 psi — Douglas Fir (req > 100) > 500 psi — Southern Pine (req > 100)
Moisture Resistance	> 500 psi (req > 150)
Gap	> 400 psi (req > 100)
Oxidation Resistance	Pass

1. Exceeds ASTM D3498 Standard Specification for Field-Gluing Plywood to Lumber Framing for Floor Systems, dry, wet, frozen and gap-filling adhesion tests.
2. Squeak-Free Guarantee™ for AdvanTech™ subfloor assembly at joist connection: Limitations and restrictions apply. Must use AdvanTech subfloor panels with I-joists or trusses and deformed fasteners with AdvanTech™ subfloor adhesive. Not applicable over dimensional lumber framing, non-wood based framing (including light gauge metal) or with other subfloor panels. Applies only to one- and two-family dwellings, townhomes and structures permitted under the IRC or governing residential code. See SqueakFreeGuarantee.com for complete details.
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 yielding approximately 38 linear feet. Coverage will vary based on bead size and weather conditions.
4. California Air Research Board, CARB, has classified AdvanTech subfloor adhesive as a Web Spray Adhesive. AdvanTech subfloor adhesive satisfies governing VOC limitations for web spray adhesives.

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].

AdvanTech X-FACTOR® Subflooring[6]							
Performance Category	**Panel Size**	**PS-2 Span Rating**	**Code Evaluation Report**	**Edge Profile**	**Panel Grade**	**Approx. Weight Per Panel[7]**	**Panels Per Unit**
23/32	4' x 8'	24 oc	ESR-1785	T&G	Structural 1	78 lbs.	45 pcs.
1 1/8	4' x 8'	24 oc	ESR-1785	T&G	Structural 1	120 lbs.	30 pcs.

5. Limitations and restrictions apply. Guarantee for panel-to-joist connection on an AdvanTech™ Subfloor Assembly. See SqueakFreeGuarantee.com for details.
6. Net face width is 47-1/2" on tongue and groove panel.
7. Estimated panel weight. Actual weight may vary by mill.

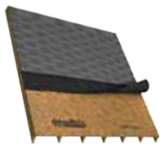
A Solid Choice for a Variety of Floor, Roof and Wall Applications

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.



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.

Flat Roof Application Using AdvanTech Panels

Combined stiffness and moisture resistance defend against edge swell helping reduce low spots that pond water.

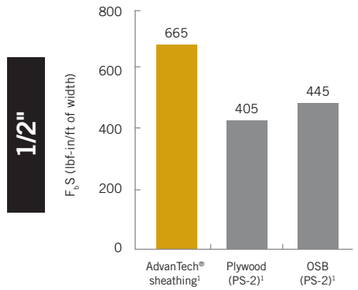
Access step-by-step instructions and how-to videos on YouTube. Subscribe now at **YouTube.com/AdvanTechFlooring**

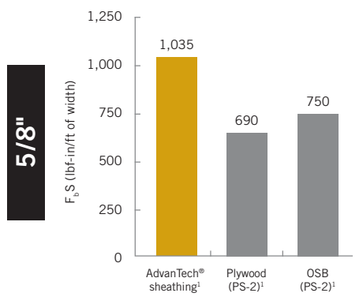
Structural 1 Sheathing Mill Specifications			
Mill	**Performance Category (IN)**	**Approx.[5] Weight Per Panel**	**Panels Per Unit**
Easton, ME	1/2 5/8	55 lbs. 66 lbs.	70 pcs. 55 pcs.
Commerce, GA	1/2 5/8	55 lbs. 66 lbs.	70 pcs. 55 pcs.
Crystal Hill, VA	1/2 5/8 23/32	55 lbs. 70 lbs. 78 lbs.	70 pcs. 55 pcs. 45 pcs.
Broken Bow, OK	1/2 5/8	57 lbs. 73 lbs.	70 pcs. 55 pcs.

5. Estimated panel weight. Actual weight may vary by mill. 5/8" sheathing is available in tongue and groove and square edge.

Design Bending Strength (F_bS)*

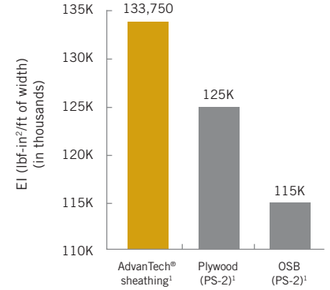
Sheathing Panels (lbf-in/ft)

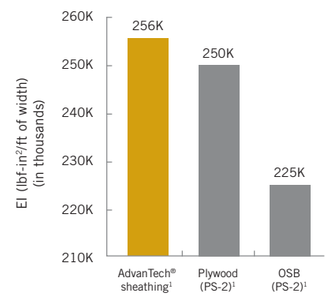




Design Bending Stiffness (EI)*

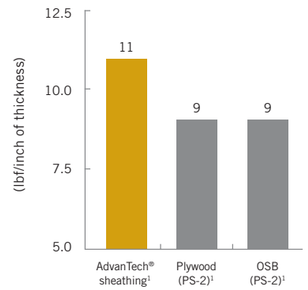
Sheathing Panels (lbf-in²/ft)

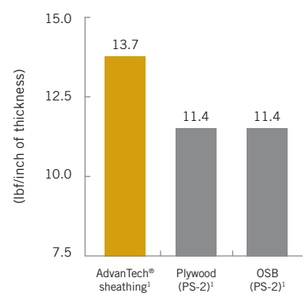




Fastener Withdrawal Calculated Values[2]*

(lbf/inch of thickness)





AdvanTech® Roof and Wall Sheathing[3]							
Performance Category	**Panel Size**	**PS-2 Span Rating**	**Code Evaluation Report**	**Edge Profile**	**Panel Grade**	**Approx. Weight Per Panel[4]**	**Panels Per Unit**
1/2	4' x 8'	32/16	ESR-1785	SE	Structural 1	54 lbs.	70 pcs.
5/8	4' x 8'	40/20		T&G, SE		67 lbs.	55 pcs.
23/32	4' x 8'	48/24	ESR-1795	SE		78 lbs.	45 pcs.

1. Based on the minimum design values published in ICC-ES Evaluation Service Report, ESR-1785 and the 2020 APA Panel Design Specification, Form No. D510C.
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 for flooring and a 0.148-inch diameter nail for roof and wall sheathing calculations. American Wood Council ASD/LRFD.
3. Net face width is 47-1/2" on tongue and groove panels.
4. Estimated panel weight. Actual weight may vary by mill.

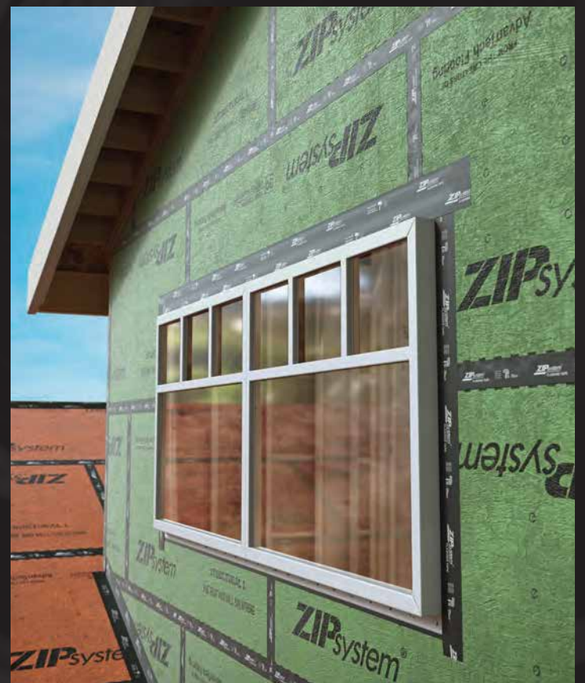
* References to OSB and plywood are to traditional OSB and traditional plywood.

ZIPsystem™ BUILDING ENCLOSURES

TRANSFORM
THE WAY YOU BUILD

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 warranty[1].

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'

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")

5/8" Sheathing

See Pages 26 & 27

4' X 8' (T&T) | 4' X 8' (T&G)

*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

VP Flashing Tape

See Page 32

3 ¾" X 90' VP FLASHING TAPE

Peel and Stick Underlayment

See Page 33

3' X 66' PEEL AND STICK UNDERLAYMENT

LEAK-FREE GUARANTEE*
WHEN USED WITH ZIP SYSTEM* SHEATHING AND TAPE

*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.

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.**

SIDING

CEDAR SHAKES

BRICK CLADDING

Protect Your Build From the Elements

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

ICC ES

ESR-1473
ESR-1474
ESR-2227

IAPMO ES®

ER-424
ER-544

Code documents available at HuberWood.com

7/16" PANEL

1/2" PANEL

5/8" PANEL

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.

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.

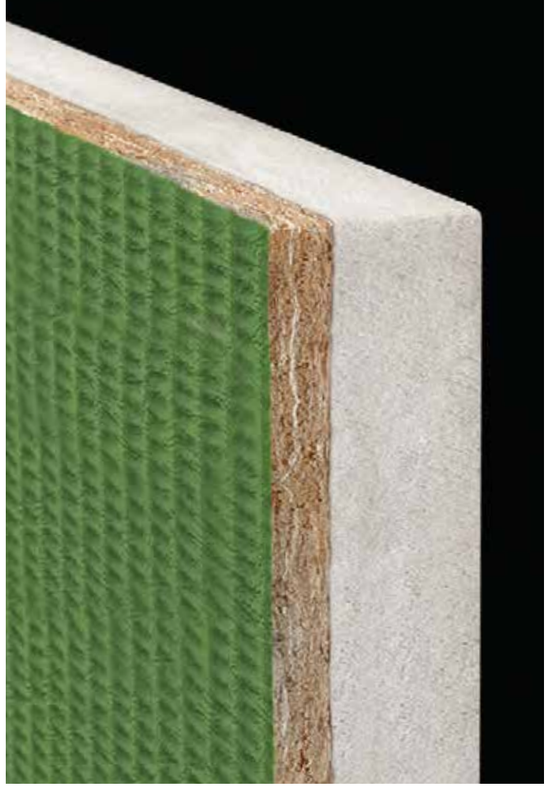
Compare For Yourself	Other Long Length Panels	ZIP System® Long Length Panels	ZIP System® Wind Zone Panels
More efficient panel installation	X	X	X
Helps eliminate blocking at horizontal panel seams[1]	X	X	X
Fewer horizontal seams	X	X	X
Less panel cutting and waste	X	X	X
Can be designed to resist combined uplift and shear[1]	X	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[2]		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[3]		X	X

ZIP System® Long Length Sheathing and Wind Zone Panels

Product	Performance Category	Panel Size	Panel Count	PS-2 Span Rating	Code Evaluation Report	Vapor Transmission of WRB Layer	Air Barrier Assembly
Sheathing	7/16	4' x 8'	80	24/16 Structural 1	ESR 1474	12-16 perms ASTM E 96 Procedure B	ASTM E 2357 0.008 cfm/ft² [0.039 L/(s*m²)] infiltration @ 75Pa ASTM E 2357 0.005 cfm/ft² [0.023 L/(s*m²)] exfiltration @ 75 Pa
	1/2		70	32/16 Structural 1			
	5/8		55	40/20 Structural 1			
Long Length	7/16	4' x 9' 4' x 10' 4' x 12'*	70 60 52	24/16 Structural 1	ESR 1473 ESR 1474		
	1/2	4' x 9' 4' x 10'	62 56	32/16 Structural 1			
Wind Zone	7/16	4' x 8' 1-1/8"* 4' x 9' 1-1/8" 4' x 10' 1-1/8" 4' x 12' 1-1/8"*	80 70 60 52	24/16 Structural 1			

1. See the American Wood Council, Special Design Provisions for Wind and Seismic, AWC SDPWS-2021.
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 formore details.
3. 5/8" 9' 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.

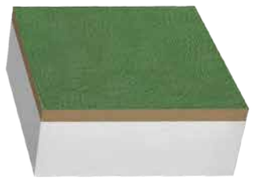
Available in R-3, R-6, R-9 and R-12 values and three lengths – 8ft, 9ft and 10ft – to suit all climate zones.

R-3

R-6

R-9

R-12



1", 1-1/2", 2", 2-1/2" ZIP System® R-sheathing						
Panel Type	**Nominal Total Thickness**	**Panel Size**	**Panel Count**	**R-value**	**Code Evaluation Report**	**Air Barrier Assembly**
R-3	1"	4' x 8' 4' x 9' 4' x 10'	32	3.6	ESR 3373 ER 482	ASTM E 2357 0.0072 cfm/ft² [0.037 L/(s*m²)] exfiltration @ 75Pa ASTM E 2357 0.0023 cfm/ft² [0.012 L/(s*m²)] exfiltration @ 75 Pa
R-6	1-1/2"		31	6.6		
R-9	2"		23	9.6		
R-12	2-1/2"		18	12.6		

Foam Performance		
Property	**TEST Method**	**Typical Results**
Dimensional Stability	ASTM D 2126	< 2%
Compressive Strength	ASTM D 1621	20 psi
Water Absorption	ASTM C 209 ASTM D 2842	< 1% < 3.5%
Water Vapor Transmission	ASTM E 96	0.56 perm (Method A) 1.29 perm (Method B)
Density	ASTM D 1622	Nominal 2.0 pcf
Flame Spread	ASTM E 84	40-60
Smoke Developed	ASTM E 84	50-170
Tensile Strength	ASTM D 1623	> 730 psf
Service Temperature		-40°F – 200°F

ZIP System® Performance		
Property	**Test Method**	**Typical Results**
Water Resistance of Coatings	ASTM D 2247 (for 14 days)	Passed
Drainage Efficiency	ASTM E 2273	> 90%
Water Vapor Transmission	ASTM E 96B	12-16 perms (overlay)
Water Penetration	ASTM E 331	Passed
Air Barrier Assembly	ASTM E 2357 at 75 Pa	0.008 cfm/ft² (0.039 L/s*m²) infiltration 0.005 cfm/ft² (0.023 L/s*m²) exfiltration
Wind-Driven Rain	TAS-100	Passed 110mph
Accelerated Weathering	ASTM G154 (Cycle 1)	Passed

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[1,2] and Engineered Shear Wall Design[3]

CODE RECOGNIZED ESR-3373 | IAPMO ER-482

	Framing		Fasteners			Shear Values[5]	
ZIP System® R-sheathing Type	**Nominal Stud Spacing (min.)**	**Maximum Stud Spacing (in.)**	**Fastener Specifications[4]**	**Edge/Field Spacing (in.)**	**Minimum Penetration into Framing (in.)**	**Allowable Seismic Controlled Shear Values[5,6] (plf)**	**Allowable Wind Controlled Shear Values[5] (plf)**
R-3	2-by-4	24	0.131" shank nails	4/12	1.5	245	343
R-3	2-by-4	24	0.131" shank nails	3/12	1.5	280	393
R-3	2-by-4	16	16ga staples, 7/16" crown, 2" length	3/6	1.0	210	294
R-6	2-by-4	24	0.131" shank nails	4/12	1.5	230	322
R-6	2-by-4	24	15ga staples, 7/16" crown, 2.5" length	3/6	1.0	NA[7]	NA
R-6	2-by-4	24	0.131" shank nails	3/12	1.5	255	357
R-9	2-by-4	24	0.131" shank nails	3/12	1.5	240	336
R-12	2-by-4	24	0.131" shank nails	3/12	1.5	215	301

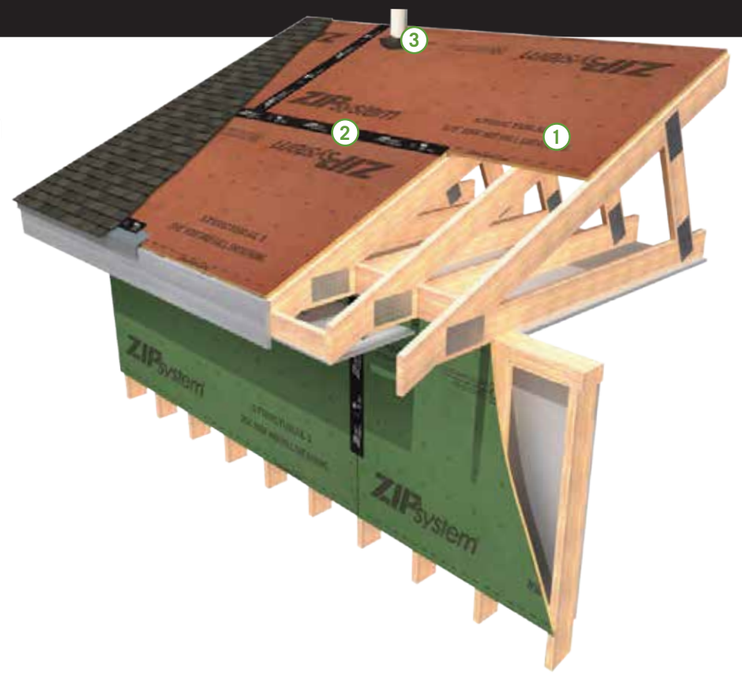
For SI: Inch = 25.4mm; 1 pound per foot (ppf) = 14.59 N/m.
* Structural design values can be found in ESR-3373.
1. Prescriptive bracing requirements under the 2021 IRC.
2. Not approved for use as prescriptive wall bracing where wind design is required by R301.2.1.1.
3. Engineered shear wall requirements with Douglas Fir-Larch Framing under the 2021 IBC.
4. Fasteners must be common nails or equivalent, or staples, of a type generally used to attach wood sheathing.
5. The shear walls must have a maximum height-to-width aspect ratio of 2:1.
6. ZIP System R-sheathing used as the lateral resistance system in seismic zones D_0, D_1, D_2 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-resistive barrier, and capture the financial and scheduling benefits of immediate rough dry-in with ZIP System™ flashing tape.

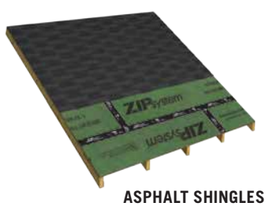
Protect Your Build From the Elements

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

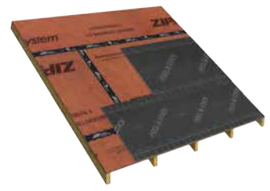
ZIP System® sheathing and tape provide an excellent roof underlayment system to receive many finished roof coverings including metal, tile and asphalt shingles, fiberglass shingles or cedar shingles. The panels lie flat and stay flat, ensuring a finished roof that looks as good as it performs.



ASPHALT SHINGLES

METAL SHINGLES AND PANELS

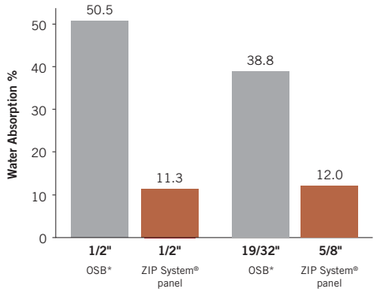
CLAY AND CONCRETE TILE



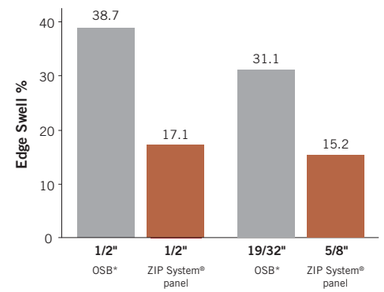
UNDERLAYMENT

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

WATER ABSORPTION[5]



EDGE SWELL[5]



* References to OSB are to PS-2 grade-stamped commodity OSB.

5. 24 Hour soak.

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.

7/16" PANEL

1/2" PANEL

5/8" PANEL

7/16", 1/2" and 5/8" ZIP System® Sheathing[1,2,3]

Performance Category	Panel Size	Panel Count	PS-2 Span Rating
7/16	4' x 8'	80	24/16 Structural 1[4]
1/2	4' x 8'	70	32/16 Structural 1
5/8	4' x 8'	55	40/20 Structural 1

ICC ES
ESR-1473
ESR-1474

IAPMO ES
ER-424
ER-544

Code documents available at HuberWood.com

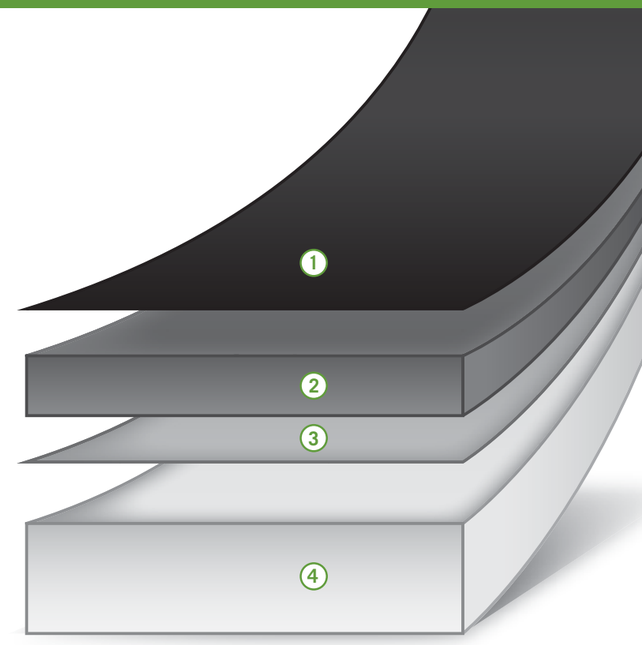
1. Sheathing panels stamped with Structural 1 panel grade are required to meet or exceed racking shear and cross-panel strength and stiffness listed within the Voluntary Product Standard (PS2) for Wood-Based Structural-Use Panels.
2. Limitations and restrictions apply. See ZIP System® sheathing and tape Installation Manual on ZIPSystem.com for Guarantee details.
3. Limitations and restrictions apply. View the ZIP System® Roof Residential Warranty at huberwood.com/residential-warranties/zip-system-roof, and/or Commercial Warranty for ZIP System® Roof at huberwood.com/commercial-warranties/zip-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.

SEAL TOUGH JOBS IN A FLASH

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]

ZIP System™ Flashing Tape



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

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

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

4 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® sheathing[1].
- Resists heat and UV light and creates long-lasting bond strength.

WATER-RESISTIVE BARRIER WHEN USED WITH ZIP SYSTEM® SHEATHING

WORKS ON A VARIETY OF SURFACES

REPOSITIONABLE MATERIAL

COLD TEMPERATURE APPLICATION AS LOW AS 0°F[3]

ADVANCED ACRYLIC ADHESION DELIVERS EXCEPTIONAL BONDING

180-DAY EXPOSURE GUARANTEE[2]

ZIP System™ Flashing Tape								
Nominal Width	Roll Length		Tape Thickness	Adhesive Technology	Code Evaluation Report	Installation Temperature Range	Exposure	Tensile Strength
3-3/4"	30'	90'	12 mils	Acrylic	ESR 2227	0°F – 120°F[3]	180 Days[2]	938 psi
6"	75'							
9"	50'							
12"								

1. Limitations and restrictions apply. View the ZIP System® Wall Residential Warranty at huberwood.com/residential-warranties/zip-system-wall, ZIP System® Roof Residential Warranty at huberwood.com/residential-warranties/zip-system-roof, Commercial Warranty for ZIP System® Wall at huberwood.com/commercial-warranties/zip-system-wall and/or Commercial Warranty for ZIP System® Roof at huberwood.com/commercial-warranties/zip-system-roof for more details.
2. Limitations and restrictions apply. See ZIP System® sheathing and tape Installation Manual on ZIPSystem.com for Guarantee details.
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.

ZIPsystem™ STRETCH TAPE

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.

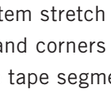
Stretches to Fit
Easily stretches to conform to corners and curves.

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

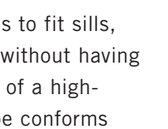
Labor Saving
Eliminates the need to piece tape segments together in challenging applications.

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

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



STRETCHES IN ANY DIRECTION

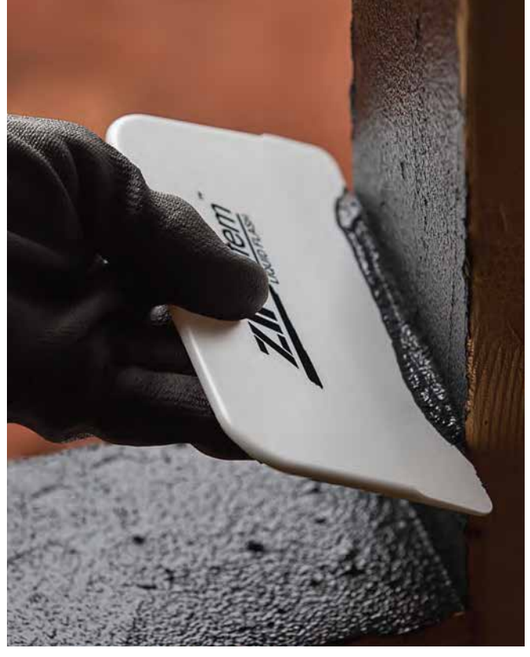


WINDOW SILL

WALL PENETRATION

CURVED WINDOW

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[3]	180 Days[2]	225 psi
6"	20'	75'					
10"							



ZIPsystem™ LIQUID FLASH

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-resistive and tack-free in as quick as 20–40 minutes[5], 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[2], when used with ZIP System® sheathing.[1]

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

ICC ES

ESR-4597

ZIP System™ Liquid Flash										
Packaging Options	Typical Coverage: Window Sill Flashing (2x4 Framing)	Cured Thickness	Compound Technology	Water & Air Penetration	Installation Temp. Range	Code Evaluation Report	Exposure	Tack-Free Time	Cure Time	Vapor Permeance
29 oz. Cartridge	29 lf (approx. nine 3'0" window sills)	12-15 mils	STP Polymer	ASTM E331: Pass ASTM E2357: Pass	35°F – 110°F[3]	ESR 4597	180 Days[2]	20–40 min.[4]	12 mils = 4 Hours[4]	23-24 perms at 15 mils thickness
20 oz. Sausage	20 lf (approx. six 3'0" window sills)									
10.3 oz. Cartridge	10 lf (approx. three 3'0" window sills)									

1. Limitations and restrictions apply. View the ZIP System® Wall Residential Warranty at huberwood.com/residential-warranties/zip-system-wall, ZIP System® Roof Residential Warranty at huberwood.com/residential-warranties/zip-system-roof, Commercial Warranty for ZIP System® Wall at huberwood.com/commercial-warranties/zip-system-wall and/or Commercial Warranty for ZIP System® Roof at huberwood.com/commercial-warranties/zip-system-roof for more details.
2. Limitations and restrictions apply. See ZIP System® sheathing and tape Installation Manual on ZIPSystem.com for Guarantee details.
3. When applied in accordance with ZIP System® sheathing and tape Installation Manual instructions available on ZIPSystem.com.
4. At 70°F and 50 percent relative humidity. Low temperatures and low relative humidity slow dry time; high temperatures and high relative humidity accelerate dry time.

ZIPsystem™
VP FLASHING TAPE

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 permeance[1] 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.

WATER-RESISTIVE BARRIER WHEN USED WITH ZIP SYSTEM® SHEATHING

WORKS ON A VARIETY OF SURFACES

REPOSITIONABLE MATERIAL

COLD TEMPERATURE APPLICATION AS LOW AS 0°F[3]

VAPOR PERMEANCE: 3 PERMS[1]

180-DAY EXPOSURE GUARANTEE[2]

ZIP System™ VP Flashing Tape						
Nominal Width	Roll Length	Tape Thickness	Adhesive Technology	Installation Temperature Range	Exposure	Vapor Permeance
3-3/4"	90'	15 mils	Acrylic	0°F – 120°F[3]	180 Days[2]	3 perms ASTM E96 B

1. ZIP System™ flashing tape is < 1 perm; ZIP System™ VP Tape is 3 perms when tested in accordance with ASTM E96 B.
2. Limitations and restrictions apply. See ZIP System® sheathing and tape Installation Manual on ZIPSystem.com for Guarantee details.
3. When applied in accordance with ZIP System sheathing and tape Installation Manual instructions available on ZIPSystem.com.

ZIPsystem™
PEEL AND STICK UNDERLAYMENT

Next Level Layers for a Leak-Free Guarantee*

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.

LEAK-FREE GUARANTEE*
WHEN USED WITH ZIP SYSTEM® SHEATHING AND TAPE

*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.

SEALS AROUND NAILS

SLIP-RESISTANT

AVAILABLE IN STANDARD AND HIGH TEMP FORMULATIONS

Zip System™ Peel and Stick Underlayment							
Type	Total Coverage	Width	Adhesive Technology	Code Evaluation Report	Service Temperature Application	Exposure	Permeance
Standard	200 ft²	36" x 66'	Rubberized Asphalt	ESR-4904	180° F	90 days	ASTM E96 ≤ 0.05 perms
High Temperature					260° F	120 days	

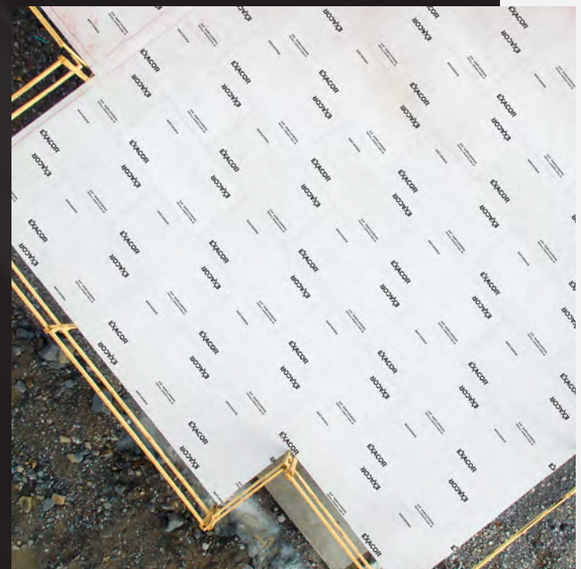
* Registration Required. Leak-Free Guarantee applies only when using a ZIP System® Roof Assembly. See LeakFreeGuarantee.co for details and the definition of a ZIP System Roof Assembly.

EXACOR®

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]

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

Fire Resistance
Provides fire resistance[1] as part of a floor, ceiling or wall assembly.

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.

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

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

HUBER ENHANCED EXPERIENCE

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.

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 1600 sq ft. wood-framed truss floor system and replicating a commonly specified multi-family sound-rated floor assembly

THE EXACOR™ FAMILY OF PRODUCTS

Magnesium oxide (MgO) boards offer simple strength and streamlined installation for building panels with exceptional workability.

Structural Solutions

1/2" (12mm) Underlayment

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

1/2" (12mm) Wall Sheathing

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

5/8" (16mm) Wall Sheathing

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

ENGINEERED TO ACHIEVE SOUND-RATINGS WITHOUT THE DELAYS OF GYPSUM UNDERLAYMENT

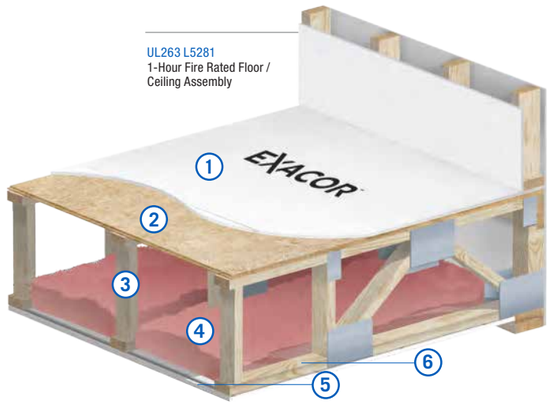
Unlike gypsum underlayment assemblies that require cure time that can slow or halt construction progress, once EXACOR® underlayment panels are installed over plywood or OSB subfloor by the framer, construction can continue without delay.

When used as a 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



Acoustical Performance - EXACOR® Underlayment								
Finished Flooring								
Floor Covering	None		2mm LVT - Adhered		2mm LVT - Adhered		5.5mm LVT - Floated	
Underlayment			None		1.4mm Acoustical Underlayment		None	
Ceiling Option 1								
Flooring Type	Resilient Channel @ 16" On Center							
Gypsum Panel	5/8" ULIXTM Gypsum							
STC/IIC	STC	IIC	STC	IIC	STC	IIC	STC	IIC
Score	57	50	58	52	58	53	59	54
Ceiling Option 2								
Flooring Type	Resilient Channel @ 12" On Center							
Gypsum Panel	5/8" Type C Gypsum							
STC/IIC	STC	IIC	STC	IIC	STC	IIC	STC	IIC
Score	59	47	59	50	59	51	60	52

UL Assemblies - Underlayment

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

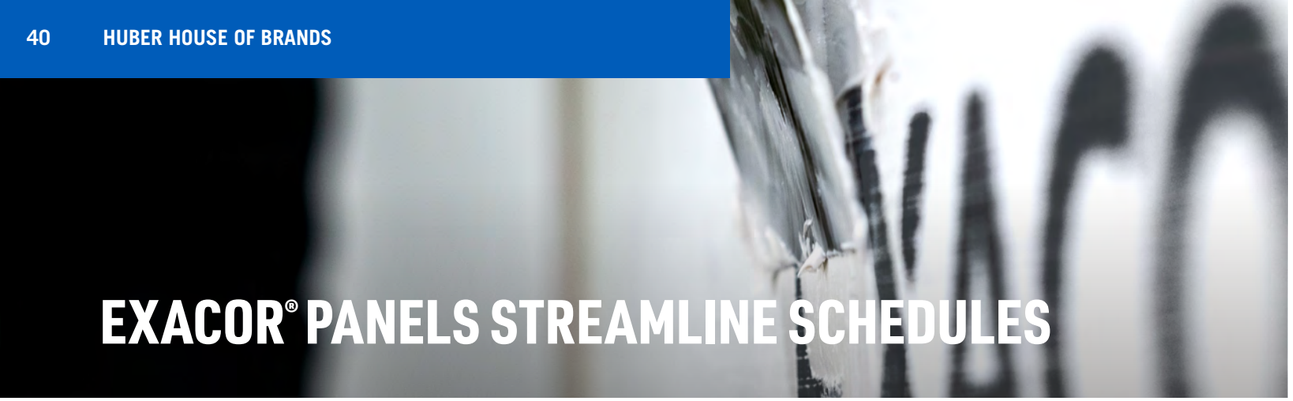
Mold Resistance[2] (ASTM G21)

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.

EXACOR® Panel Dimensions				
Thickness	Panel Size	Edge Profile	Weight (LBS/SF)	PCS/Unit
1/2" (12mm)	4' x 8' (1219mm x 2438mm) 4' x 9' (1219mm x 2743mm) 4' x 10' (1219mm x 3048mm)	Straight (Square) Edge	2.7	38 33 32

1. See UL listing at www.UL.com for full assembly details and requirements.
2. ½" 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.

START	FRAMING	DRY-IN	DRYWALL	GYPSUM PREP, POUR, CURE & SEAL	FINAL DRYWALL	PAINT	CABINETS	GYPSUM PRIMER	FLOORING

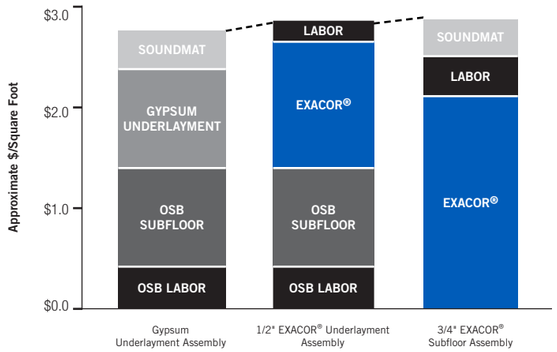
EXACOR® Panel Process

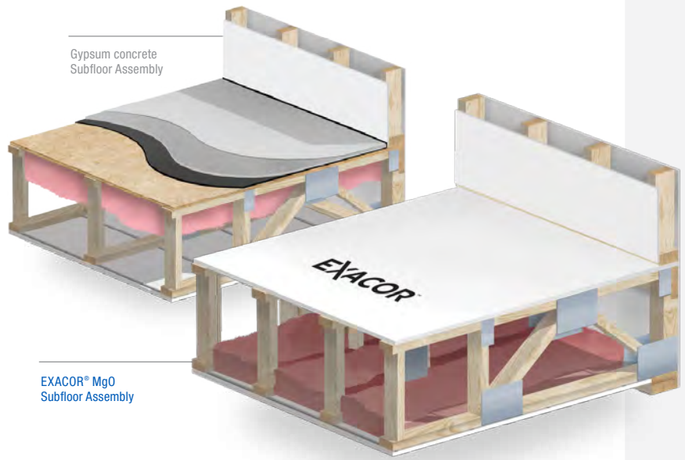
START	FRAMING	EXA UL	DRY-IN	DRYWALL	FINAL DRYWALL	PAINT	CABINETS	EXA PREP & PRIMER	FLOORING	POTENTIAL TIME SAVINGS

- Continuous EXACOR® layer under wall plates gives consistent IIC sound attenuation
- Set tubs/shower pans 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.

CONTRACTOR FLOOR ASSEMBLY COST STRUCTURE*



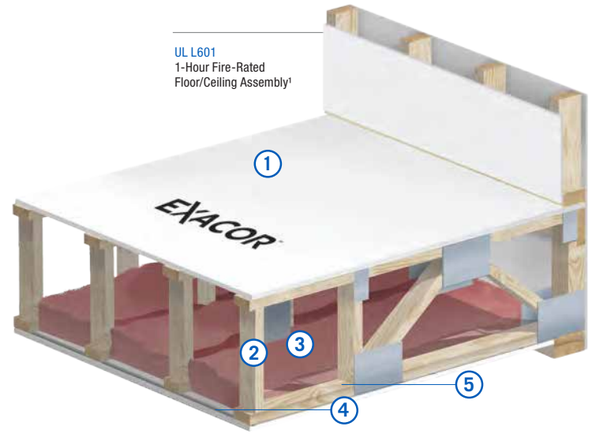


The construction processes shown are examples only and may not be suitable for all scenarios. Processes will vary on a case by case basis.

*This cost estimation is an example only, and pricing for labor and materials varies widely by region. Seek pricing for your market from local partners. All prices subject to market variability and availability.

A Faster Solution Than Gypsum Underlayment

With the strength of magnesium oxide (MgO) and an integrated mesh core, EXACOR® panels offer a smooth base for floor coverings. Because EXACOR panels are installed by framers, it can eliminate the need for gypsum underlayment applications, so there is no need to schedule that additional trade to complete installation. EXACOR panels can be used over traditional OSB or plywood as an underlayment (ESR-4635) and as a structural subfloor (ESR-4634).



Key:

1. 3/4" (20mm) EXACOR Panel
2. Min. 18" Deep Open Web Truss space no greater than greater than 16"
3. 3 1/2" Glass Fiber Batt Insulation
4. Resilient Channel @ 12" o.c.
5. 5/8" Type C Gypsum Board

Acoustical Performance - EXACOR® Subfloor					
Floor Covering	None*	2mm LVP	7mm Click-Lock LVP with Attached Pad	3/8" Engineered Wood Flooring	Carpet Tile
Sound Attenuation Mat		1.4mm Sound Mat		None	None
STC	54	55	55	56	54
IIC	39	50	50	50	51

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

UL Assemblies - Subfloor

1. L502 (System No. 25), 2. L525 (System No. 17), 3. L601, 4. L602, 5. M500 (System No. 10)

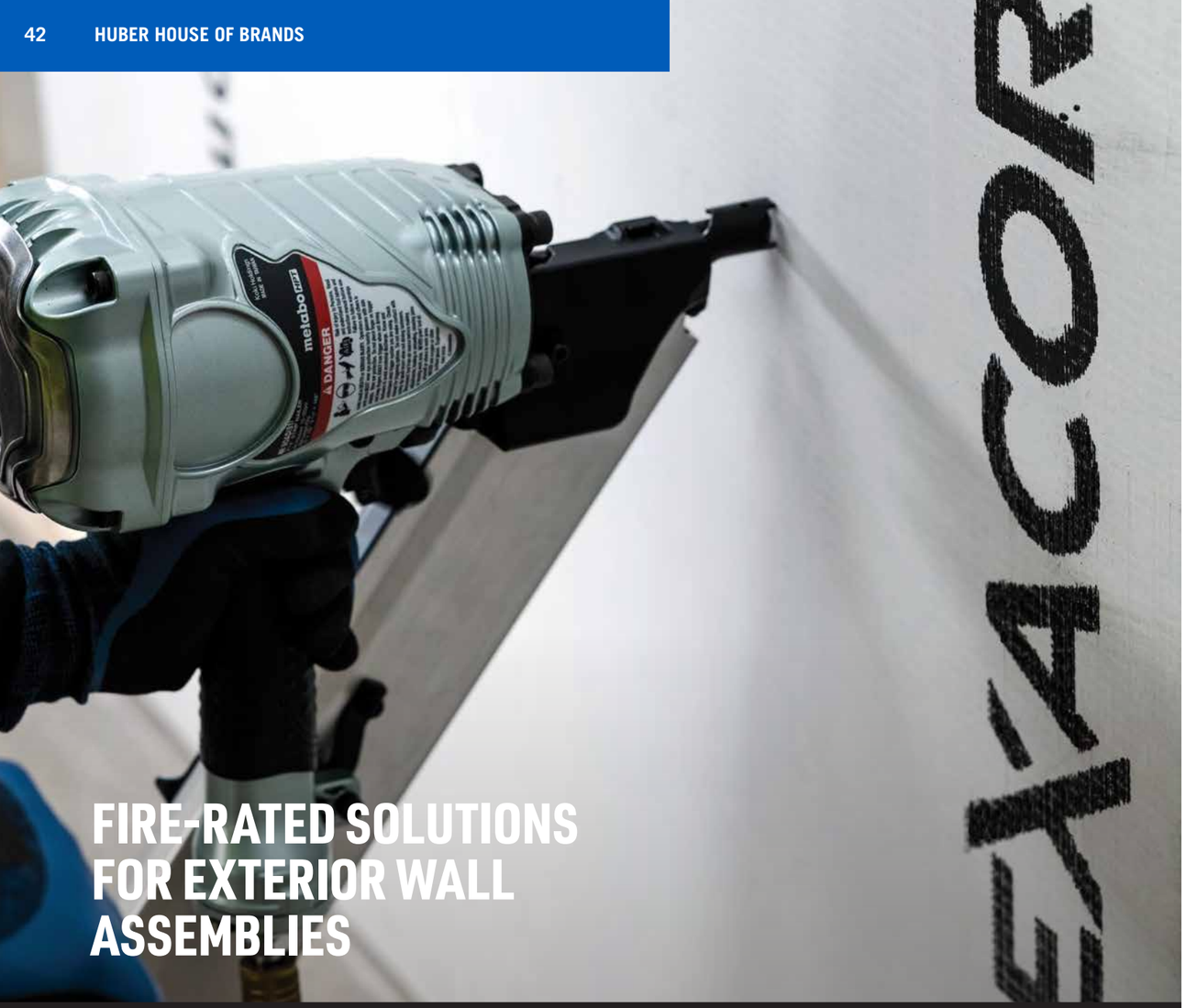
Mold Resistance² (ASTM G21)

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.

EXACOR® Panel Dimensions				
Thickness	Panel Size	Edge Profile	Weight (LBS/SF)	PCS/Unit
3/4" (20mm)	4' x 8' (1219mm x 2438mm)	T&G	4.5	22

1. See UL listing at www.UL.com for full assembly details and requirements.
2. ½" panels tested for mold resistance in accordance with ASTM G21. Other thicknesses have not been tested to date.



FIRE-RATED SOLUTIONS FOR EXTERIOR WALL ASSEMBLIES

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.

1. EXACOR panels may be used in specific published fire-resistant 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.

Build Exterior Wall Assemblies with Strength and Fire Resistance

1-HOUR FIRE-RATED
1-HOUR INT.

EXACOR® MGO 1-HOUR ASSEMBLY RATING (ON BOTH SIDES)*

MOS-1290-04 (ESL-1290)

1. EXACOR wall sheathing
2. Fiberglass insulation
3. Wood framing
4. Gypsum

2-HOUR FIRE-RATED
2-HOUR INT.

EXACOR® MGO 2-HOUR ASSEMBLY RATING (ON BOTH SIDES)*

MOS-1290-07 (ESL-1290)

1. EXACOR wall sheathing
2. Mineral wool insulation
3. Wood framing
4. Gypsum

2-HOUR FIRE-RATED
1-HOUR EXT. | 1-HOUR INT.

EXACOR® MGO 2-HOUR ASSEMBLY RATING (ON BOTH SIDES)*

MOS-1290-07 (ESL-1290)

1. Gypsum
2. Fiberglass insulation
3. Wood framing
4. EXACOR wall sheathing

EXACOR® Panel Properties

Panel Thickness	Panel Size[1]	Panel Count	Weight (lbs/sf)	Max Support Spacing (in.)	Fastener Requirements[2]		Allowable Shear Values[3,4,5,6,7,8] (plf)	Transverse Wind Loads[5,6] (psf)	Fire-Resistance Rated Assemblies[9]	Code Evaluation Report
					Panel Edge Spacing (in.)	Perimeter/ Field Spacing (in.)				
1/2" (12mm)	4' x 8' 4' x 9' 4' x 10'	38 33 32	2.7	24	3/8	4/6	270	±38	MOS-1290-04 MOS-1290-06 MOS-1290-07 MOS-1290-08	ESR-4635
						3/6	330			
					3/4	3/6	335			
5/8" (16mm)	4' x 8' 4 x 9' 4' x10'	28 25 24	3.3	24	3/8	4/6	265	±68	MOS-1290-03	ESR-4635
						3/6	300			
					3/4	3/6	340			

* See full assembly for details and requirements.

1. 4' x 8' (1220mm x 2440mm), 4' x 9' (1219 mm x 2743 mm), 4' x 10' (1219 mm x 3048 mm).
2. 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 corners.
3. Prescriptive bracing requirements under the 2021 and 2018 IRC, Intermittent Wall Bracing Method.
4. Not approved for use as prescriptive wall bracing where wind design is required by R301.2.1.1.
5. Framing must be of nominal 2x lumber with a minimum Specific Gravity of 0.42.
6. All panel edges must be backed by framing.
7. Shear walls must have a maximum height-to-width aspect ratio of 2:1.
8. For use in Seismic Design A, B and C only.
9. In accordance with ASTM E119/ANSI UL 263. Refer to ICC-ES ESL-1290 for full assembly details and requirements.

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HUBER ENGINEERED WOODS

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