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INNOVATIVE SOLUTIONS FOR
MULTIFAMILY & LIGHT COMMERCIAL

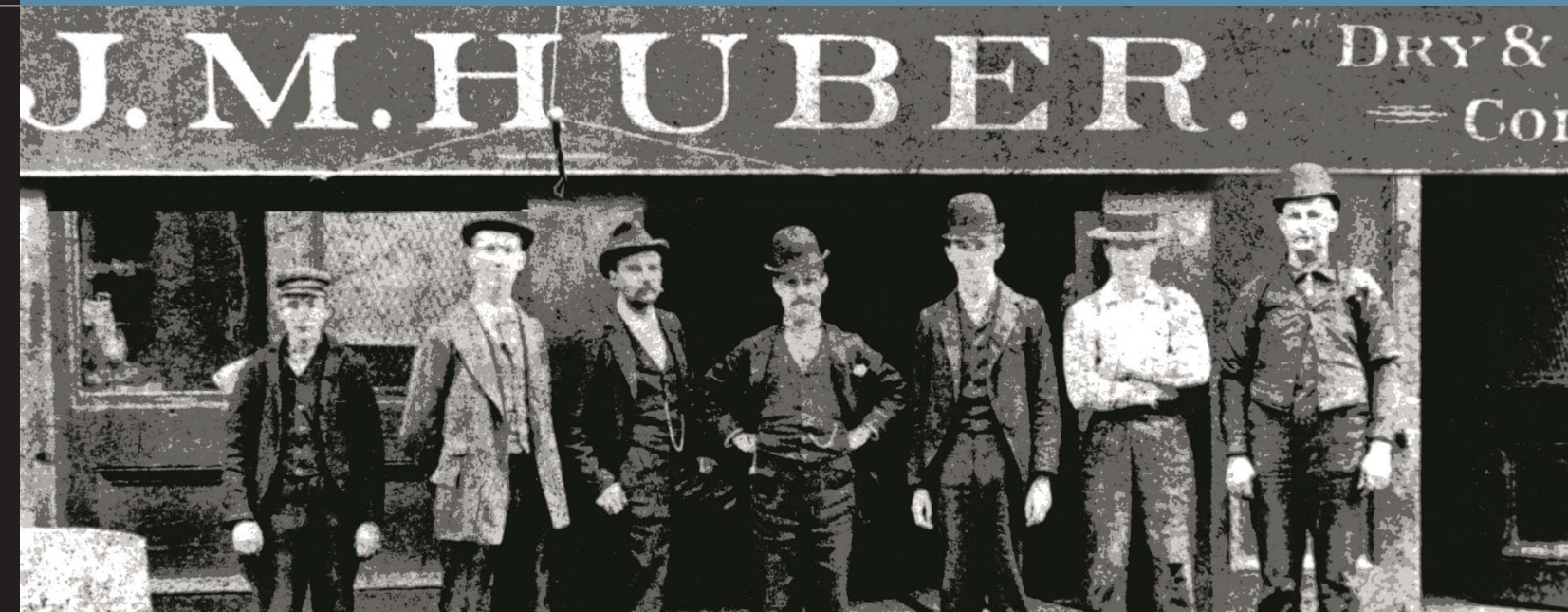


HUBER ENGINEERED WOODS LLC

A Tradition of Strong, Responsible Building

At Huber Engineered Woods LLC, we continually strive to create innovative products that suit our customers' needs. Each one delivers outstanding performance, easy installation and greater strength in multifamily and light commercial projects. Our ZIP System® Roof and Wall Sheathing adds a layer of protection to your building envelope, providing a continuous rigid moisture and air barrier that optimizes energy efficiency. Additionally, our AdvanTech® Subflooring product is proven to achieve a superior combination of strength and moisture resistance — for boards that won't swell, cup, delaminate or bounce even under the toughest conditions.

Inside you can explore our offering of innovative, high-performance and environmentally responsible building solutions.



Our Culture

Founded in 1883 by Joseph Maria Huber, the J.M. Huber Corporation transforms ideas into products that meet the challenges of an evolving world. One of the most successful privately held companies headquartered in the U.S., J.M. Huber Corporation's profitable growth has spanned three centuries and six generations.

J.M. Huber Corporation is a global company with approximately 4,000 employees in more than 20 countries. Each of the company's business units play a leading role in the industries they serve and share a commitment to adhering to the Huber Principles:

- Environmental Health & Safety (EH&S) Sustainability
- Ethical Behavior
- Respect for People
- Excellence

Huber Engineered Woods (HEW), a division of J.M. Huber Corporation, combines its advanced adhesives and wood product technologies with state-of-the-art manufacturing capabilities. The result: Innovative products like AdvanTech® Subflooring and ZIP System® Roof and Wall Sheathing that provide customers with improved performance and best-in-class warranties.

Huber Engineered Woods brings together a team of professionals with experience in research and development, product engineering and manufacturing to create products that solve specific problems. By continually developing innovative solutions for floor, wall and roof assemblies, Huber Engineered Woods is committed to a high standard of quality, responsible building.

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Locations

Serving the design and construction industry, nationwide, Huber Engineered Woods is headquartered in Charlotte, North Carolina, and has manufacturing facilities located in:



Dedicated Support for Design Professionals

Knowledgeable sales professionals are available, nationwide, to provide product information, answer installation questions, discuss building envelope design and more. To locate a Huber Engineered Woods sales professional in your area, call 800.933.9220. For Technical Support, call 800.933.9220 ext. 2716.

A Legacy of Protecting the Environment

Over the years, Huber Engineered Woods has developed a wide range of sustainable practices that help us do our part to protect and preserve the world's natural resources. Huber's longstanding approach to the environment can be summed up by a simple phrase — *leave a light footprint*. With this in mind, Huber has developed a number of operational environmental initiatives and product solutions that include:

- Utilizing state-of-the-art environmental control equipment and maintaining strict control standards to ensure that engineered wood products are manufactured for consistency and performance, resulting in less job-site waste and more efficient construction.
- Transforming wood waste into fuel for manufacturing facilities, thereby utilizing 100% of wood resources.
- Consuming wood from small, fast-growing trees, one of nature's most rapidly renewable resources.
- Striving toward net-zero impact by providing over 2.5 million seedlings to private land-owners to help them practice sustainable forestry.
- Providing annual research funding for initiatives concerned with forest health and productivity, water quality, fish and wildlife and landscape/ecosystem management and biodiversity.



True to our commitment to sustainability, Huber Engineered Woods consistently provides solutions that help transform designs into projects with increased energy efficiency, less waste and improved indoor and outdoor air quality.



A Recognized Leader

Huber Engineered Woods LLC is a recognized leader in an industry that relies on the sustainable growth of natural resources. In addition to managing the resources that go into each of our products, we take the little amount of waste material produced during the production process and repurpose it to help power our manufacturing facilities. By constantly striving to make the manufacturing process more efficient, Huber Engineered Woods stays current on green building practices and procedures through ongoing business process improvement initiatives.

Our Contribution

- Manufacturing AdvanTech® and ZIP System® panel solutions, whose production and use have minimal environmental impact when compared to other product categories like steel and concrete.
- Offering products containing no added urea formaldehyde, thereby categorized as low-emitting materials.
- Developing programs that inform architects, specifiers and contractors about products and methods that enhance the built environment and preserve the natural environment.
- Providing building science expertise and forming strategic partnerships with other organizations driven to develop energy-efficient building solutions.

Green Building Programs and Credits Overview

To help you keep pace with code bodies and earn points toward green building programs, Huber Engineered Woods is pleased to offer sustainable building solutions with outstanding brands, including AdvanTech® and ZIP System® products. In general, points can be awarded in the following areas:

- Use of certified wood and engineered wood products
- Use of local and regionally harvested and manufactured materials
- Use of energy-efficient products or construction practices
- Use of water-resistive barriers and proper moisture management practices

According to the U.S. Department of Energy, buildings use 39% of the energy and 74% of the electricity produced each year in the United States. Leadership in Energy and Environmental Design's (LEED) Energy & Atmosphere category encourages a wide variety of energy-wise strategies — commissioning; energy use monitoring; efficient design and construction; efficient appliances, systems and lighting; the use of renewable and clean sources of energy, generated on-site or off-site, and other innovative measures.



A higher level of energy efficiency comes standard when you build with ZIP System® Wall Sheathing and ZIP System® Tape. By significantly reducing air leakage, ZIP System Wall Sheathing contributes to greater occupant comfort and energy efficiency in a building. By simply taping panel seams with ZIP System Tape, ZIP System Wall Sheathing effectively seals the wall system, decreasing unwanted air leakage into and out of the building shell. This helps protect the R-value of insulation, which reduces heating and cooling costs.

Read on to learn why AdvanTech and ZIP System products are superior choices under the various green certification programs. For more detailed and up-to-date information, visit www.huberarchitectlibrary.com.

Leadership in Energy and Environmental Design (LEED)

Developed by the U.S. Green Building Council (USGBC) in March 2000, LEED promotes sustainable building and development practices through a suite of rating systems that recognize projects that implement strategies for better environmental and health performance.



LEED for New Construction and Major Renovation (2009)					
Credit	Category	Products Eligible*			Possible Points (Max)
		AdvanTech® Subflooring	ZIP System® Wall Sheathing	ZIP System® Roof Sheathing	
Indoor Environmental Quality (IEQ)					
4.4	Low Emitting Materials	•	•	•	1
Materials & Resources (MR)					
5	Regional Materials*	•	•	•	2

*See specific green building program for limitations, restrictions and point eligibility requirements.

LEED for Homes (2008)					
Credit	Category	Products Eligible*			Possible Points (Max)
		AdvanTech® Subflooring	ZIP System® Wall Sheathing	ZIP System® Roof Sheathing	
Energy & Atmosphere (EA)					
3	Air Infiltration	•	•	•	3
Materials & Resources (MR)					
2.2	Environmentally Preferable Products	•	•	•	8

*See specific green building program for limitations, restrictions and point eligibility requirements.

National Green Building Standard (NGBS)

The National Green Building Standard (ICC 700 or “the Standard”) is the only residential green building rating system approved by ANSI, the American National Standards Institute, as an American National Standard. Single family, multifamily, residential renovation and site development projects are eligible. Certification is provided by the NAHB Research Center.



National Green Building Standard (NGBS) (2008)					
Practice Number	Category	Products Eligible*			Possible Points (Max)
		AdvanTech® Subflooring	ZIP System® Wall Sheathing	ZIP System® Roof Sheathing	
Chapter 6: Resource Efficiency					
606.1	Biobased Products	•	•	•	6
606.2	Wood Based Products	•	•	•	4
606.3	Manufacturing Energy	•	•	•	2
607.1	Resource Efficient Materials	•	•	•	3
608.1	Indigenous Materials	•	•	•	10
Chapter 7: Energy Efficiency					
703.2.1	Insulation & Air Sealing		•		15
Chapter 9: Indoor Environmental Quality					
901.4 (6)	Non-emitting Products	•	•	•	4

*See specific green building program for limitations, restrictions and point eligibility requirements.

Green Globes

Originating in Canada with the Building Research Establishment’s Environmental Assessment Method (BREEAM), Green Globes is an international rating system that operates under the Green Building Initiative (GBI) in the U.S.



Green Globes (2010)					
Section	Category	Products Eligible*			Possible Points (Max)
		AdvanTech® Subflooring	ZIP System® Wall Sheathing	ZIP System® Roof Sheathing	
10.1 Resources and Materials: Assemblies (Structural System and Envelope)					
10.1.2.2	Materials Content: Bio-based Products	•	•	•	7
10.1.4.1	Transportation of Processed or Manufactured Materials: Regional Materials	•	•	•	5
10.3 Resources and Materials: Other Material Properties					
10.3.2.1	Certification of Wood Based Products: Third Party Certified	•	•	•	6
10.8 Resources and Materials: Air Barriers					
10.8.1.1	Continuous Air Barrier: Installed		•		3
10.8.1.2	Continuous Air Barrier: Demonstrated Through Assembly Testing		•		3

*See specific green building program for limitations, restrictions and point eligibility requirements.

ENERGY STAR® Home Certification

To earn ENERGY STAR®, a home must meet strict guidelines for energy efficiency set by the U.S. Environmental Protection Agency. These homes are at least 15% more energy efficient than homes built per the 2004 International Residential Code (IRC) and include additional energy-saving features that typically make them 20%-30% more efficient than standard homes. Certification is granted through a “rater” that qualifies the home via testing and inspection.

This includes the Seal and Insulate with ENERGY STAR program, which recommends building practices that improve energy efficiency in homes. Practices include: sealing air leaks throughout the home to stop drafts, adding insulation to block heat loss in winter and heat gain in summer, as well as choosing ENERGY STAR-qualified windows when replacing windows. Using ZIP System® Tape can help reduce air leaks as recommended by the Seal and Insulate with ENERGY STAR effort.



Notes:

ENERGY STAR® Version 3 (Rev 4) Checklist				
Checklist Number	Category	Products Eligible*		
		AvanTech® Subflooring	ZIP System® Wall Sheathing	ZIP System® Roof Sheathing
3.1 Fully Aligned Air Barriers: Walls				
3.1.1	Walls Behind Showers and Tubs		•	
3.1.2	Walls Behind Fireplaces		•	
3.1.3	Attic Knee Walls		•	
3.1.4	Skylight Shaft Walls		•	
3.1.5	Wall Adjoining Porch Roof		•	
3.1.6	Staircase Walls		•	
3.1.7	Double Walls		•	
3.1.8	Garage Rim/Band Joist Adjoining Conditioned Space		•	
3.1.9	All Other Exterior Walls		•	
4.4 Reduced Thermal Bridging: Reduced Thermal Bridging at Above Grade Walls Separating Conditioned from Unconditioned Space				
4.4.5	Advanced Framing	•	•	

*See specific green building program for limitations, restrictions and point eligibility requirements.



Total Performance Package

AdvanTech® Subflooring delivers the total performance package of moisture resistance, strength, fastener holding and quality. For starters, AdvanTech Subflooring has one of the lowest water absorption¹ rates and eliminates headaches caused by edge swelling, delamination and cupping — all backed by a 300-day no-sanding guarantee². For structural performance, AdvanTech Subflooring helps eliminate floor bounce and squeaks³ by delivering the highest certified design bending strength in the industry and the wood density needed to keep fasteners securely in place.

#1 Quality Brand Leader

Winner of Best Product of 2009 in *Architectural Record*⁴ and voted the #1 Quality Brand Leader by builders every year since 2002⁵. AdvanTech Subflooring has become a staple for quality design and construction, offering unsurpassed water protection, strength and stiffness.

Manufactured to be Unique

The magic of AdvanTech® Subflooring and Sheathing begins in the blender.

Through our unique blending process, AdvanTech Subflooring and Sheathing achieves the lowest water absorption rate in the wood panel industry. This is accomplished by using more moisture-resistant resins throughout the oriented-strand-board (OSB) and increasing the density of the wood in the panels. Wax and resins are introduced to the individual wood strands during the blending process, protecting the panel through-and-through.



The Role of Resins and Resin Technology

Resins are a small, but vital, component in the engineering of oriented-strand-board (OSB) panels with regard to their moisture-resistive properties. The chemical bond formed from the reaction between moisture-resistant resins and water at the wood's cellular structure provides deep and long-lasting moisture protection.

Typical OSB Resin

OSB uses formaldehyde-based resins which simply glue strands together with **typical bonds**, much like Velcro®. The resins and strands remain chemically the same after pressing.

AdvanTech® Resin

Unlike typical OSB, the AdvanTech® formulation utilizes a premium and high performing polyurethane-based resin as the primary resin type. The formulation creates a **chemical bond**, which is very strong and highly resistant to water.

AdvanTech® Subflooring Benefits

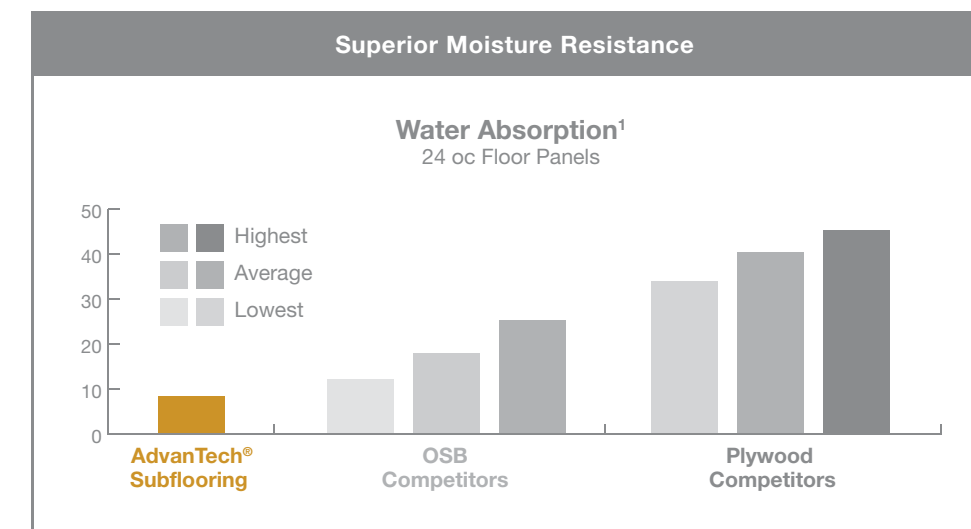
Superior Moisture Resistance

- Minimizes warping, cupping and edge swell, thereby offering a level and stable substrate for finished floor coverings
- Withstands long-term moisture exposure during and after construction
- Reduces callbacks for moisture-related issues
- Provides an excellent substrate for gypsum concrete applications

300 DAY NO SANDING GUARANTEE*

Payable up to twice the reasonable cost of sanding!

AdvanTech® Subflooring and Sheathing panels are warranted to not delaminate. In addition, the subflooring panels will **not require sanding due to moisture absorption for up to 300 days** after installation.*



AdvanTech® Subflooring Benefits

Superior Strength and Stiffness Properties

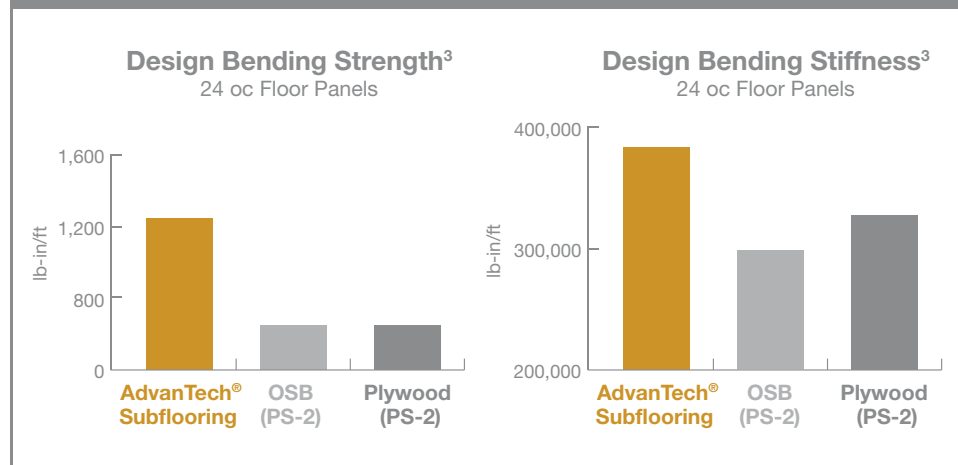
- Delivers outstanding bending strength, stiffness and fastener holding power, producing floors that are flat and minimizing issues with floor squeaks and bounce
- Minimizes finished floor problems due to movement

High Density and Fully-Sanded Smooth Surface

- Helps reduce the risk of cracking and weak spots in gypsum concrete underlayment
- Tough enough to tolerate abuse (i.e., drywall carts) and corridor traffic during construction
- Sanded on both sides to provide uniform thickness



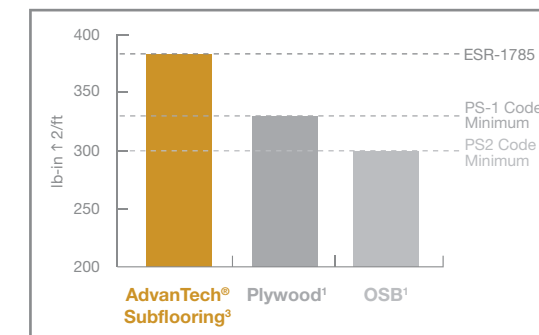
Superior Strength and Stiffness



AdvanTech® Subflooring Benefits

Superior Consistency

- AdvanTech® Subflooring is fully sanded on both sides



Unmatched Quality and Consistency

- 24 oc span-rated panels meet higher, more rigorously tested design values set forth by the International Code Council (ICC) to maintain its ESR-1785

DESIGN RATED
ESR-1785

AdvanTech Subflooring and Sheathing panels are manufactured with design strength and design stiffness capacities beyond those required by PS-2, which is the voluntary standard that all other panels adhere to.



AdvanTech Subflooring offers the best warranty in the business — a limited **50-year warranty** that is transferable to every new owner.²

AdvanTech® Subflooring Product Data

AdvanTech® Subflooring*				
Performance Category	Panel Size	PS2 Span Rating	Code Evaluation Report	Edge Profile
19/32	4' x 8'	20 oc	x	T&G
23/32	4' x 8'	24 oc	ESR-1785	
7/8	4' x 8'	32 oc	x	
1	4' x 8'	32 oc	x	
1-1/8	4' x 8'	48 oc	x	

*Net face width is 47-1/2" on tongue and groove panels

AdvanTech® Roof & Wall Sheathing*					
Performance Category	Panel Size	PS2 Span Rating	Code Evaluation Report	Edge Profile	Panel Grade
1/2	4' x 8'	32/16	ESR-1785	SE	Structural 1
5/8	4' x 8'	40/20		T&G, SE	

*Net face width is 47-1/2" on tongue and groove panels

AdvanTech® Rim Board*					
Depth	Length	Thickness	Horizontal Shear (plf)	Vertical Load Capacity (lb/ft)	1/2" Lag Screw Lateral Resistance
9-1/2"	12' 16'	1-1/8"	200	4,500	350
11-7/8"					
14"					
16"					

*Net face width is 47-1/2" on tongue and groove panels

References: 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. Limitations and restrictions apply. Visit advantechperforms.com for details. 3. ICC ES Evaluation Report ESR-1785. 4. *Architectural Record*, 2009, December, p. 143. 5. *Builder Magazine's* 2011 Brand Use Study; 6,000 builders surveyed.

Notes:

ZIP SYSTEM® ROOF & WALL SHEATHING



The Optimal Solution

ZIP System® Sheathing is designed specifically to address the growing need for building performance, comfort and energy efficiency and is the only all-in-one solution that delivers the strength, durability and efficiency of engineered wood while sealing out air and water.

ZIP System Sheathing brings together multiple layers of innovation, offering a true system approach where all of the layers are specifically designed to work together. A high quality oriented-strand-board panel is pressed at the mill with a revolutionary built-in weather-resistant barrier that eliminates the need for building wrap or felt. Simply install the panels and then tape the seams with ZIP System® Tape, a high-performance, acrylic-based tape that has been specifically designed for use with ZIP System Sheathing.

By combining these layers of technology, ZIP System Sheathing offers three primary benefits:

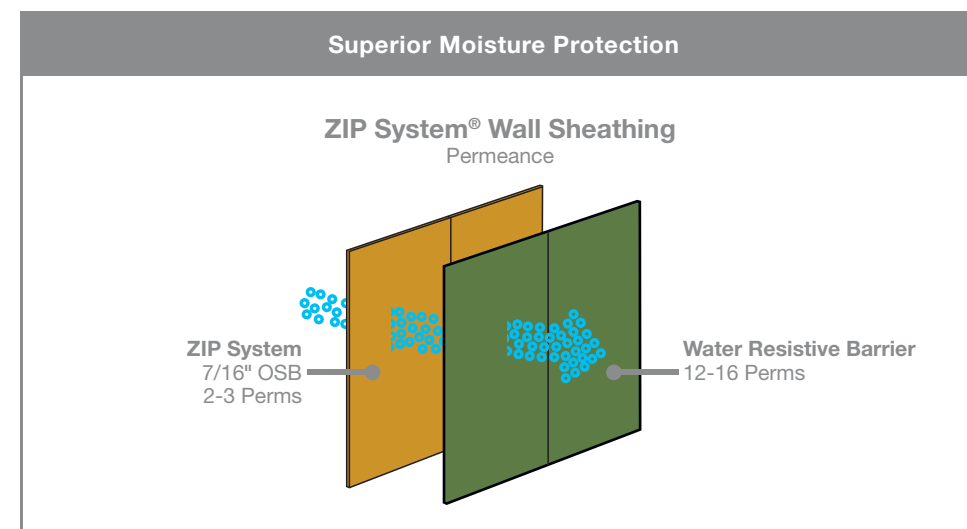
- 1 Superior Moisture Protection
- 2 Superior Air Protection
- 3 Simplicity and Ease of Installation

Offering peace of mind, ZIP System panels have undergone extensive performance testing and are backed by a best-in-class 30-year system warranty for delamination, as well as air and water hold-out.

ZIP System® Roof & Wall Sheathing Benefits

Superior Moisture Protection

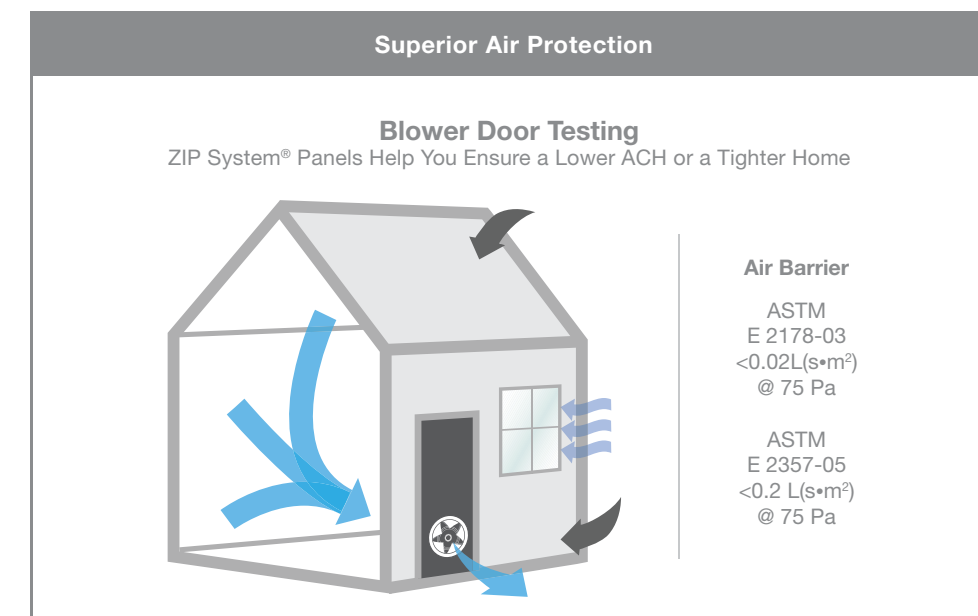
- ZIP System® panels have built-in protective barriers that protect the entire panel surface from moisture. Install panels and seal seams with acrylic-based ZIP System® Tape to achieve one continuous barrier against water infiltration.
- ZIP System Sheathing has an integrated moisture barrier that is more durable than building wrap and felt, ensuring superior moisture protection during construction and throughout the service life of the building.
- The ZIP System Sheathing overlay protects against water intrusion while providing an optimal permeance level (12-16 perms) to allow panels to breathe and dry out.



ZIP System® Roof & Wall Sheathing Benefits

Superior Air Protection

- Sealing ZIP System® Sheathing with ZIP System® Tape creates a continuous rigid air barrier system that properly seals the building envelope and provides greater air barrier performance than traditional building wrap assemblies.
- Unlike building wrap, ZIP System Wall Sheathing is not susceptible to air leaks due to rips, tears or fastener penetrations.
- By taping panel seams with ZIP System Tape, ZIP System Wall Sheathing effectively seals the wall system, decreasing unwanted air leakage into and out of the walls. This helps protect the R-value of insulation, thereby contributing to overall occupant comfort and energy efficiency of a project.



ZIP System® Roof & Wall Sheathing Benefits

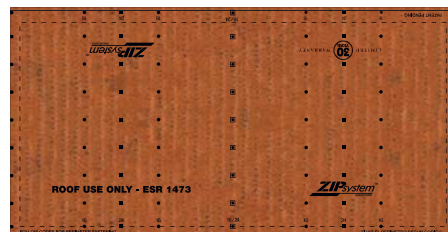
Simplicity and Ease of Installation

- ZIP System® Sheathing requires fewer steps to properly seal rough openings, such as windows and doors. This simplified process reduces the chance of installation errors and unwanted air or moisture penetration.
- With ZIP System Sheathing, the moisture barrier is integrated onto the surface of the panel, which eliminates the rework and repair common to ripped or blown-off building wrap and felt.
- ZIP System panels are supplied with fastening and tape guides pre-printed on the surface of the panel for ease of installation and simplified quality control.
- ZIP System Sheathing installs up to 40% faster than traditional systems, providing faster dry-in and improving the cycle time of projects!

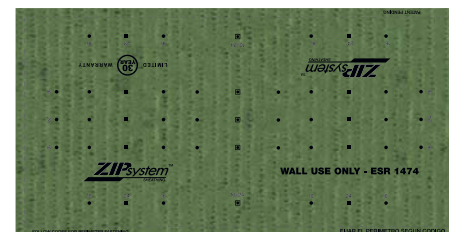


Simplicity and Ease of Installation

Pre-printed Fastening and Tape Guides for Ease of Installation



ZIP System® Roof Sheathing
with Built-in Moisture Barrier



ZIP System® Wall Sheathing
with Built-in Moisture Barrier



ZIP System Sheathing is backed with an industry-leading 30-year limited warranty.²

ZIP SYSTEM® TAPE



Unlike Any Tape You've Used

ZIP System® Tape transforms our sheathing panels into a seamless protective barrier for the outside of your building. Its advanced acrylic adhesive is proven to deliver a superior airtight and watertight seal that resists harsh elements. That's why acrylic is trusted for some of the most demanding applications in the world. ZIP System Tape can save you time and money on the job, and you can leave the site with confidence it will deliver lifelong performance.

Advanced Adhesive Science

The result of advanced physical and chemical building science, ZIP System Tape is specially engineered to bond with ZIP System® panels. It creates a magnetic-like attraction on the molecular level, forming a permanent seal.

Strong Within

ZIP System Tape has both robust adhesion and cohesion, meaning it's internally strong. Intertwined polymer chains provide excellent internal strength, adding to the overall reliability of its seal.

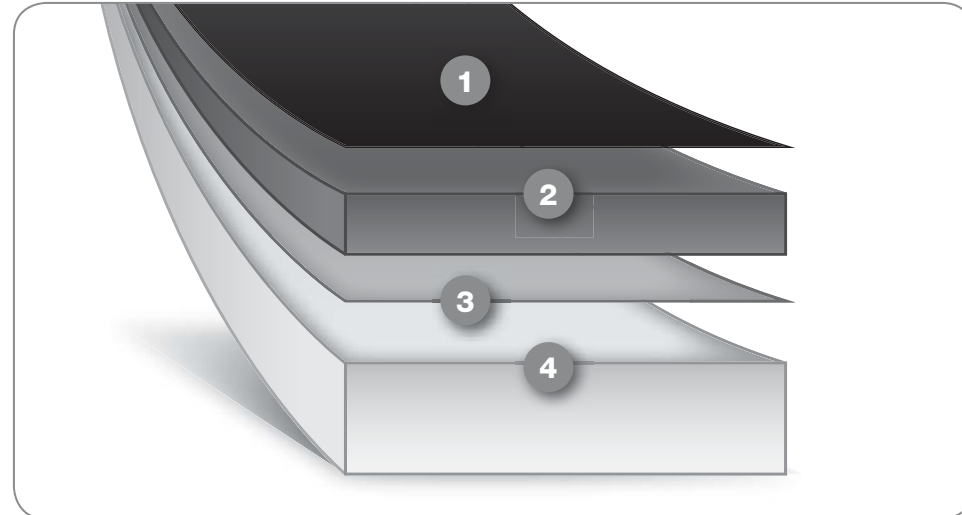
Adapts with a Building

ZIP System Tape can even adjust with a building over its lifetime. It flexes and **stretches up to 800%** to accommodate the normal contraction and expansion of walls.

ZIP System® Tape Benefits

Engineered to Perform

Each layer of ZIP System® Tape is engineered with a purpose, and they combine to form an easy-to-install, high-performance product. Its advanced acrylic adhesive actually gets stronger over time, and the tape thickness is optimized for a lasting seal that is completely airtight and watertight.

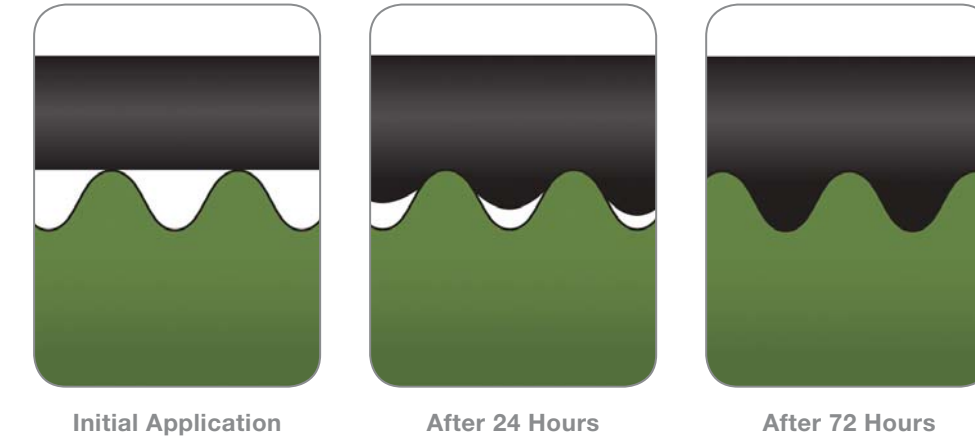


- 1 Top Layer**
 - Provides good tack, for slip resistance and safety
- 2 Thick Inner Layer**
 - Offers dimensional stability, weather and UV protection
 - Carbon black for “sunscreen”
 - Anti-oxidants for durability
- 3 Bonding Layer**
 - Specially formulated to bond with the adhesive
- 4 Advanced Acrylic Adhesive**
 - Delivers a lifetime of superior adhesion
 - Resists heat and UV light
 - Permanent bond strength

ZIP System® Tape Benefits

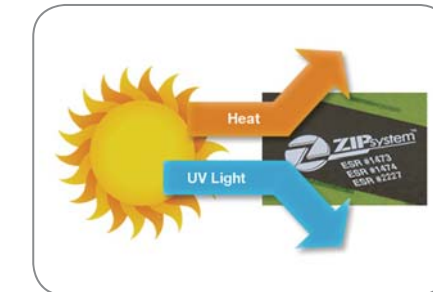
It Sticks

ZIP System® Tape’s advanced acrylic adhesive is made of highly polar molecules, meaning a magnetic-like attraction pulls the adhesive into ZIP System® panels. This helps the tape wet out well, flow into panel ridges and produce a permanent molecular bond. The result is a superior, lasting seal that is considerably stronger than traditional asphalt and butyl tapes.



It Lasts

The acrylic adhesive in ZIP System Tape resists heat and UV sunlight far better than butyl and asphalt. Cross-linked polymer chains create extremely strong molecular bonds that withstand a much wider range of temperatures. And they dissipate light energy, which can break the bonds in asphalt and butyl. In even severe conditions.

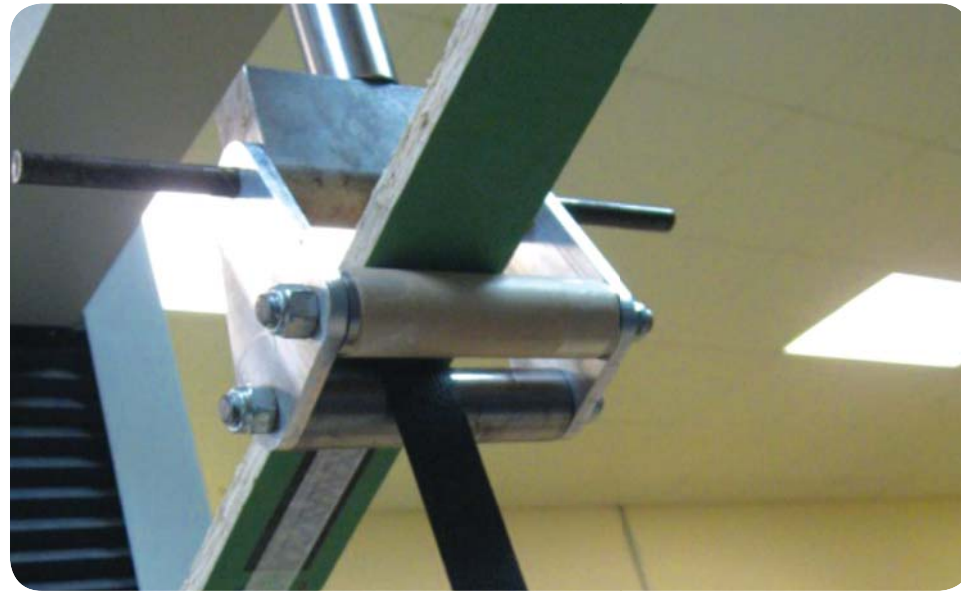


ZIP System Tape retains superior adhesion strength for years, which is why it is backed with an industry-leading 30-year limited warranty.²

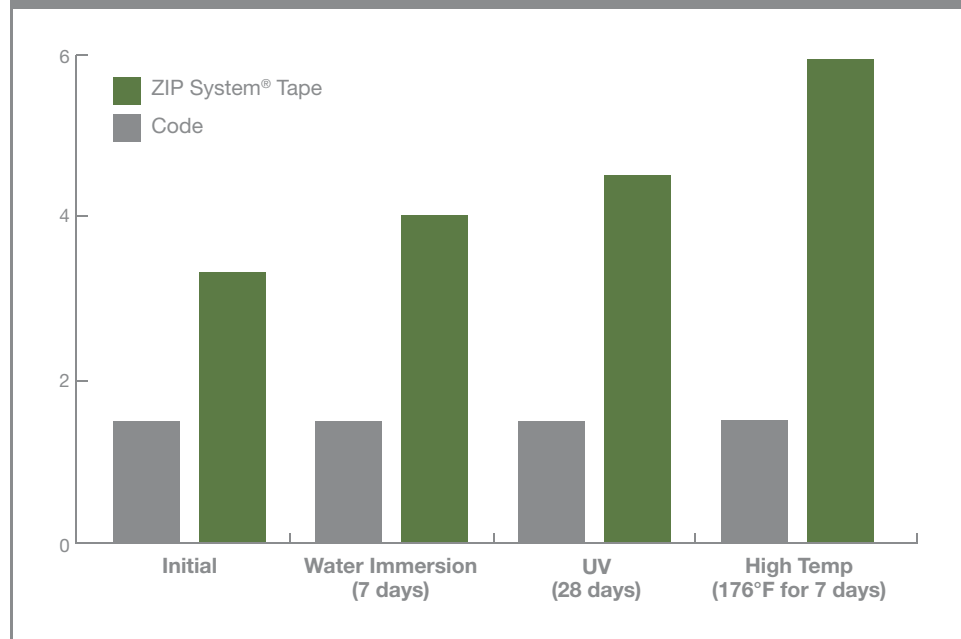
ZIP System® Tape Benefits

Tested Tough

ZIP System® Tape must undergo rigorous tests to ensure its long life. It's exposed for extended periods in various assemblies and is put through accelerated aging tests. Even in brutal wind-driven rain simulations, it withstands wind speeds of up to 110 miles per hour.



Flexible Flashing Tape Code Requirements (AC 148)



ZIP System® Product Data

ZIP System® Wall Sheathing						
Performance Category	Panel Size	Edge Profile	PS2 Span Rating	Code Evaluation Report	Vapor Transmission of WRB	Air Barrier
7/16	4' x 8'	T&T	24/16, 24/0**	ESR 1474	12-16 perm ASTM E 96-00 Procedure B	ASTM E 2178-03 <0.02L(s•m²) @ 75 Pa ASTM E 2357-05 <0.2 L(s•m²) @ 75 Pa
1/2	4' x 8'	T&T	32/16			
7/16 Extended Lengths*	4' x 8' 1-1/8" 4' x 9' 4' x 9' 1-1/8" 4' x 10' 4' x 10' 1-1/8"	T&T	24/0**			

*Contact your Huber Sales Professional for availability in your area.
**24/0 Span Rated Panels available from Broken Bow, OK manufacturing facility only.

ZIP System® Roof Sheathing					
Performance Category	Panel Size	Edge Profile	PS2 Span Rating	Code Evaluation Report	Vapor Transmission of WRB
1/2	4' x 8'	T&T	24/16	ESR 1473	12-16 perms ASTM E 96-00 Procedure B
5/8**	4' x 8'	T&T, T&G*	32/16		

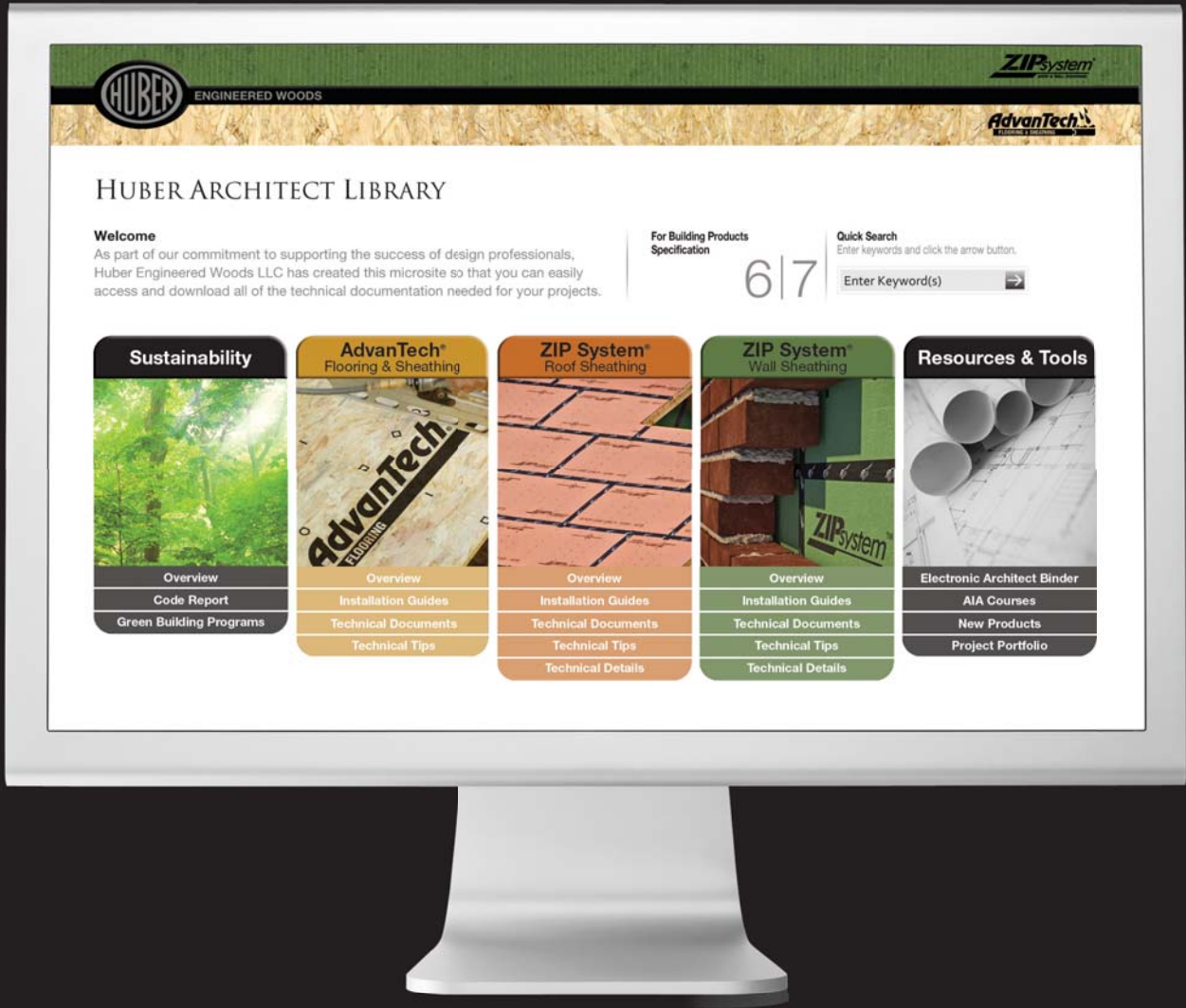
*Contact your Huber Sales Professional for availability in your area.
**5/8 ZIP Roof Panels carry Structural 1 panel grade.

ZIP System® Tape								
Nominal Width	Roll Length	Thickness	Adhesive	Code Evaluation Report	Installation Temperature Range	UV Exposure Rating	Tensile Strength	Elongation
3-3/4"	90'	12 mils	Acrylic	ESR 2227	20F-120F	180 days	938 psi	400%-800%
6"								

References: 1. Based on time studies conducted by an independent third party and 2005 ZIP System builder survey.
2. Limitations and restrictions apply. Visit zipsystem.com for details.

Notes:

ONLINE ARCHITECT LIBRARY



Easily Access and Download Technical Documentation and More

As part of our commitment to supporting the success of design professionals, Huber Engineered Woods LLC has created a new, stand-alone website:

huberarchitectlibrary.com

On the website, you can easily access, review and download all of the technical documentation needed for your projects — AdvanTech® Subflooring, ZIP System® Roof and Wall Sheathing, and ZIP System® Tape data sheets, specifications, warranties, load span tables, material safety data sheets (MSDS) and more.