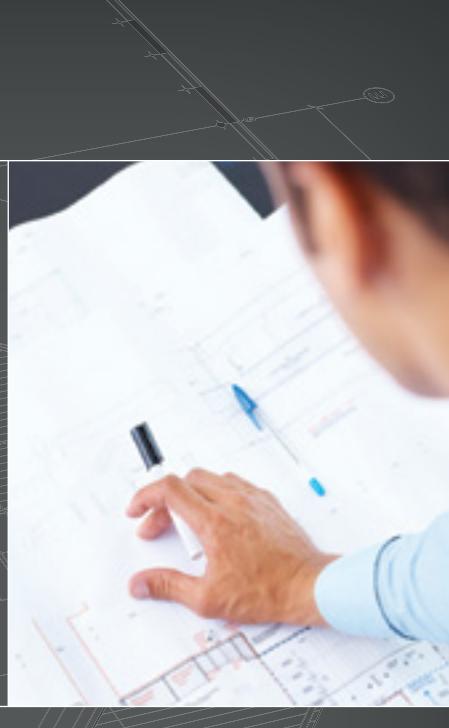




WHERE VISION MEETS INTEGRITY
Structural and Envelope Solutions
Multifamily & Commercial



8250
ENGINEERED WOODS



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MULTIFAMILY • LIGHT COMMERCIAL AND RETAIL • HOSPITALITY • ASSISTED LIVING • MILITARY HOUSING
MIXED USE • STUDENT HOUSING • SINGLE FAMILY/RESIDENTIAL





HUBER ENGINEERED WOODS

Where creativity breeds innovation.

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.

As a company, we are guided by a spirit of successful creativity that transforms ideas into products that meet the challenges of an evolving world. We never settle for the expected or accepted norm, and always search for methods that will help us deliver the highest quality products and service possible. It's a different way of doing business. Not just innovative thinking, not simply maverick approaches, but creativity that makes a difference.

With a company culture deeply rooted in innovation, we develop products to solve specific problems and to meet specific customer needs. We operate under a philosophy of continuous improvement in quality products, and value customer input, seeking their ideas on product enhancements or new products needed to fill market voids. Imagine a company that consistently surprises its customers with innovative products, yet keeps those products affordable. People want to do business with a company that delivers on their promises. That company is Huber Engineered Woods.



BUILD STRONG.

DELIVERS ON YOUR VISION
FOR A DURABLE, QUALITY BUILDING.

**ADVANTECH® FLOORING IS FLAT OUT BEST™ FOR A QUIET,
STIFF FLOOR THAT ENDURES THE CONSTRUCTION PROCESS**

AND BEYOND. As an innovative subflooring solution, AdvanTech® flooring brings structural integrity into every project with a unique combination of durability, moisture resistance, strength and stiffness. Design AdvanTech® flooring into your multi-family and light commercial projects, and you can feel confident your subfloors will stand strong for years.



DESIGNED TO PERFORM

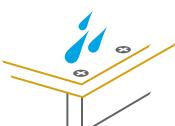
Structural Durability

AdvanTech® flooring delivers on your vision for a durable, lasting building. Backed by its lifetime limited warranty,¹ you can rest assured of the subfloor's structural integrity.



Designed For Longer Exposure¹

Built-in resins resist the damaging effects of weather during construction for a floor that reduces the risk of swelling, cupping or delamination and can eliminate costly rework. Less rework equals faster cycle times.



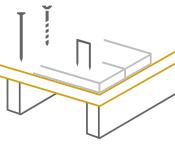
Proven Quality

Voted #1 in quality in its category for more than a decade,² AdvanTech® flooring has performance values published in ESR-1785 for better design bending strength, stiffness and fastening holding power.³



Panel Strength and Stiffness

Long lasting strength and stiffness means AdvanTech® flooring panels are specifically engineered to outperform commodity OSB and plywood giving you a solid base you can build on.



Fastener Holding Power

The high wood density and advanced resins inside AdvanTech® flooring securely hold floor fasteners in place, helping to reduce nail pops and floor squeaks.

- 1 Limitations and restrictions apply. Visit [AdvanTechPerforms.com](#) for details on AdvanTech® panel Lifetime Limited Warranty and 500-day No Sanding Guarantee.
- 2 2002-2016 *Builder Magazine's Brand Use Study*; OSB category.
- 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 See AdvanTech Flooring Product Data Sheet on [AdvanTechPerforms.com](#) for available thicknesses stamped as Structural 1.

“ AdvanTech® flooring is durable and well-made. A lot of times in new construction, we have an extended period of time with weather, and water, snow and ice build up on the substrate. AdvanTech® flooring doesn’t move, it doesn’t give, it doesn’t swell. It’s a great product for that. ”

— John Lipari, JFL Construction Management, Farmington, CT

PERFORMANCE ADVANTAGES:

Built To A Higher Standard³

AdvanTech® flooring is built to a higher standard, substantiated by third party evaluation services for published design values for strength, stiffness and fastener holding power above PS-2 minimums. These values are documented in ESR-1785; visit www.icc-es.org for the full report.



Lifetime Limited Warranty¹

Backed by a lifetime limited warranty, AdvanTech® flooring delivers performance you and building owners can trust.

No Sanding Guarantee¹

AdvanTech® panels will stand up to your most demanding jobsites and are backed by a 500-day no-sanding guarantee. Say goodbye to swelling, cupping and delamination, avoiding costly reworks.



Environmentally Friendly

AdvanTech® flooring is a sustainable subflooring system that contributes points toward green programs.
(See Sustainability section starting on page 34 for details.)

Voted #1 In Quality²

Builders from across the nation have voted AdvanTech® flooring #1 in quality in its category every year for more than a decade. That's a reputation you can count on.



Structural 1 Rated

AdvanTech flooring delivers on your vision for a subfloor with structural integrity. It's manufactured with design strength and stiffness capacities beyond those required by PS-2, for greater resistance to wind and seismic loads.⁴



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

*Net face width is 47-1/2" on tongue and groove panels. ** Estimated panel weight. Actual weight may vary by mill.

ADVANTECH® FLOORING

Structural durability and proven quality
make an easy choice.

FOR SUBFLOORING YOU CAN COUNT ON TO PERFORM FOR THE LIFE OF A
BUILDING¹, SPECIFY ADVANTECH® FLOORING.

Staying on schedule and within budget can be critical to the success of any project. Rework due to inferior product performance not only costs additional time and labor, but also makes it difficult to keep construction progress on track. Backed by a lifetime limited warranty,¹ AdvanTech® flooring gives all the advantages of a high performing product,² and none of the headaches that can lead to costly and time-consuming rework. Panels install flat, stand up to the elements and are guaranteed to perform over the life of the building.



ADVANTECH® FLOORING

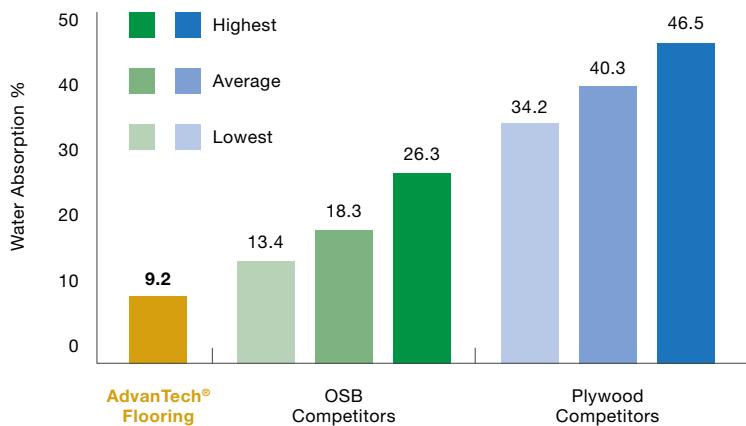
Mitigate moisture risks.

ADVANTECH FLOORING STANDS UP TO ELEMENTS AND DEFENDS AGAINST MOISTURE. AdvanTech® flooring is backed by a 500-day no sanding guarantee,¹ perfect for the longer exposure times in multifamily or light commercial projects.

- 1 High panel density helps **reduce the rate of water absorption** into the panel even under harsh weather conditions.
- 2 Advanced resins coat every wood strand and create a **highly moisture-resistant** substance similar to polyurethane, protecting fresh cut edges on-site.
- 3 Sealed edges help prevent swelling during long-term storage or exposure to the elements.

**Water Absorption³**

24 oc floor panels



1 Limitations and restrictions apply. Visit AdvanTechPerforms.com for details.

2 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.

3 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.

ADVANTECH® FLOORING

ESR-1785 designation assures a higher quality subfloor panel.¹

ADVANTECH® FLOORING IS BUILT TO A HIGHER STANDARD
WITH PUBLISHED DESIGN VALUES ABOVE CODE MINIMUM
(PS-2)² REQUIREMENTS. ESR-1785¹ documents design values for

AdvanTech flooring above commodity-grade panels:

- Largely, 62% better design bending strength than commodity OSB or plywood panels of the same dimension³
- 28% better design bending stiffness than commodity OSB³
- 16% better design bending stiffness than commodity plywood³
- Overall, 10% better design fastener holding power than both commodity OSB and plywood⁴



- 1 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. ICC ES Evaluation Service Report, ESR-1785.
- 2 AdvanTech flooring is substantiated by third party evaluation services for published design values for strength, stiffness and fastener holding power above PS-2 minimums. Please see ESR-1785 for AdvanTech flooring published design values.
- 3 ICC ES Evaluation Service Report ESR-1785. 2012 APA Panel Design Specification, Form No. D510C.
- 4 Based on the equivalent specific gravity values published in ICC-ES Evaluation Service Report, ESR-1785 and the 2012 APA Panel Design Specification, Form No. D510C.

PROVEN QUALITY
YOU CAN BUILD ON.

Once architects or builders use AdvanTech® flooring, they realize the product's benefits firsthand. AdvanTech flooring is a proven performer trusted by building professionals:

- Voted #1 in quality in its category every year since 2002⁵
- Builders and remodelers named AdvanTech flooring 1 of 16 of their favorite building products on the market⁶
- 9 out of 10 builders who try AdvanTech flooring more than once stay loyal⁷



- 5 2002-2016 *Builder Magazine's Brand Use Study*; OSB category.
- 6 *Builder Magazine 2013 Readers Choice Product Survey*.
- 7 Burke Research. "Discrete Choice Pricing Research Report for AdvanTech" (commissioned research, Charlotte, NC, 2013)

ADVANTECH® FLOORING

The strength and power to keep floors flat and quiet.

ADVANTECH® FLOORING BRINGS TOGETHER A UNIQUE COMBINATION OF BENDING STRENGTH, STIFFNESS AND FASTENER HOLDING POWER FOR ANY APPLICATION.

From finished floor coverings to flat roof applications, AdvanTech flooring is FLAT OUT BEST™ for a quiet stiff floor.

1

Exceptional strength and durability produce a sturdier, quieter floor that can add to the performance of your overall floor system.

2

Precision engineering helps keep your projects on schedule with our patented fastening guide and self spacing tongue and groove edge profile.

3

Everything about AdvanTech flooring is engineered for maximum strength, stiffness and fastener holding power that will last for the life of the building.

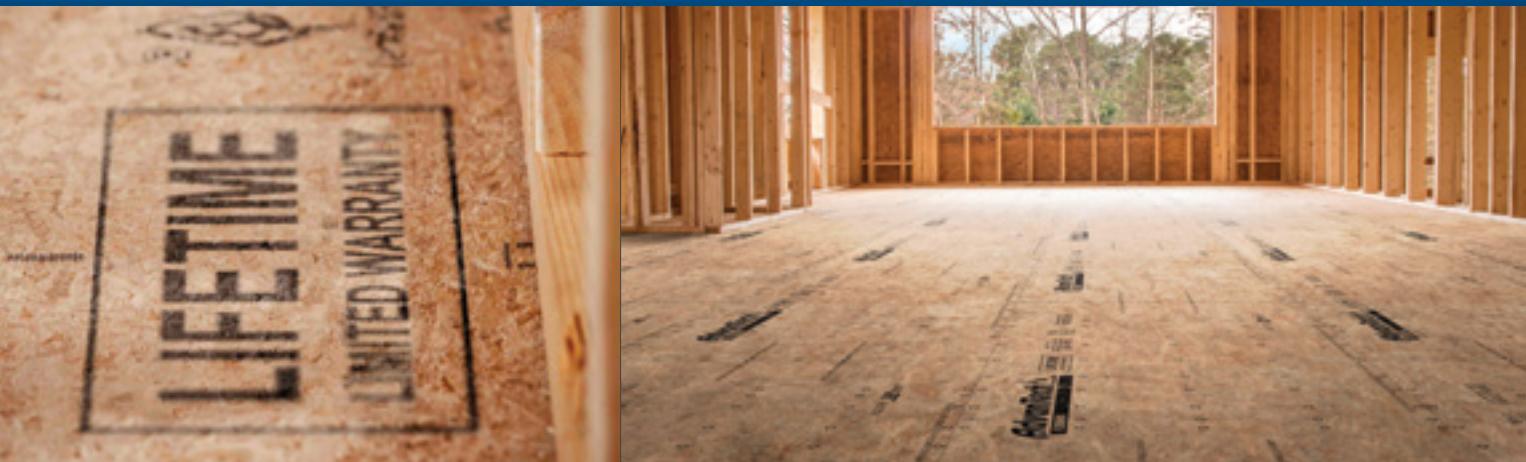
4

Consistent thickness and density allow panels to lay flat and helps grip fasteners for a secure finished floor installation.



ADVANTECH® FLOORING

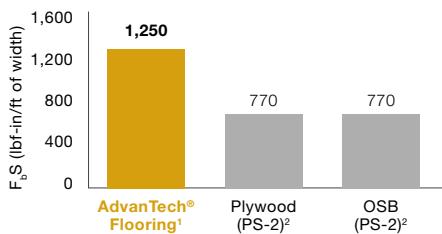
The right choice now for a lifetime of performance.⁴



ADVANTECH PANELS ARE ENGINEERED TO BE STRONG, STIFF AND HOLD FASTENERS IN PLACE. See the test results below on how AdvanTech® flooring stacks up against plywood and OSB competitors.

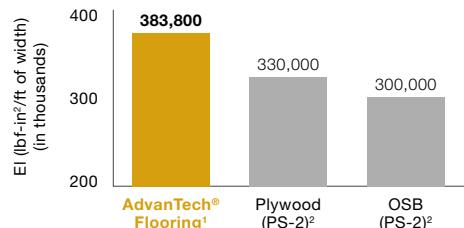
Design Bending Strength ($F_b S$)

24 oc flooring panels (lbf-in/ft)



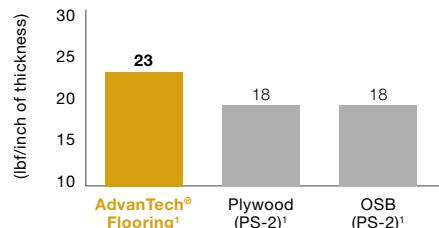
Design Bending Stiffness (EI)

24 oc flooring panels (lbf-in²/ft)



Fastener Withdrawal Calculated Values³

(lbf/inch of thickness)



¹ Based on the design values published in ICC-ES Evaluation Service Report, ESR-1785 and the 2012 APA Panel Design Specification, Form No. D510C.

² 2012 APA Panel Design Specification, Form No. D510C.

³ Allowable nail withdrawal values were calculated in accordance with the 2015 National Design Specification for Wood Construction using a 0.131 inch diameter nail for flooring and 0.148 inch diameter nail for roof and wall sheathing calculations. American Wood Council ASD/LRFD.

⁴ Limitations and restrictions apply. Visit AdvanTechPerforms.com for details.

ADVANTECH® FLOORING

A solid choice for a variety of flooring applications.



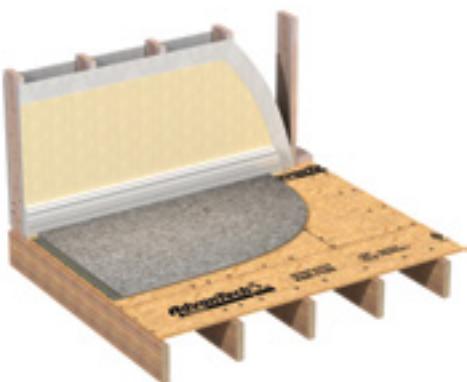
HARDWOODS OVER ADVANTECH® FLOORING

Unique combination of high-wood density and advanced resins help grip fasteners in place and keep hardwood flooring flat and quiet.



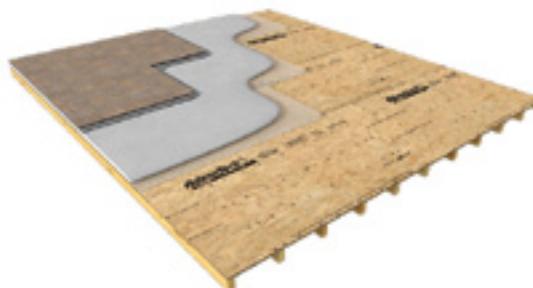
TILE AND STONE OVER ADVANTECH® FLOORING

High performance strength and stiffness help reduce the risk of cracked tile and stone.



CARPET OVER ADVANTECH® FLOORING

Fully sanded surface and precision tongue and groove profile helps eliminate visible seams while keeping tack-strips firmly in place.



GYPSUM CONCRETE OVER ADVANTECH® FLOORING

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

ADVANTECH™ SUBFLOOR ADHESIVE

Floor squeaks have met their match.

FROM THE MAKER OF #1 QUALITY² ADVANTECH® SUBFLOORING COMES NEW ADVANTECH™ SUBFLOOR ADHESIVE, FOR SUBFLOOR ASSEMBLIES SO STRONG YOU WON'T HEAR A SQUEAK.¹

When it comes to choosing subflooring that installs fast and stays flat, builders turn to AdvanTech® panels. Now when you combine the trusted performance of AdvanTech® subfloor panels with the polyurethane bond of NEW AdvanTech™ subfloor adhesive, the result is a panel-to-joist connection so strong it's backed by a 10-year Squeak-Free Guarantee.^{TM1} Cover more panels⁴ faster with the speed and ease of the gun-applied foam that quickly collapses into a high-strength gel. With a bond that's 2-5 times greater than industry standards and moisture-curing formula, AdvanTech subfloor adhesive is ideal for use on wet or frozen wood.³ Use on any wood-to-wood assemblies, glued-floor systems, plywood or OSB. See SqueakFreeGuarantee.com for details on building an AdvanTech™ Subfloor Assembly backed by a Squeak-Free Guarantee.¹

Quiet subfloors can help keep the peace from jobsite to homesite. Put AdvanTech subflooring and AdvanTech subfloor adhesive to work on your next job with a Squeak-Free Guarantee.¹



One 24 oz.
can yields 400
linear feet⁴



Squeak-Free
Guarantee¹



Polyurethane
bonding
strength



Adheres to
wet and
frozen wood³



Quick and easy
application



Apply between
20° to 105° F
(-6° to 41° C)



20 minute
open time



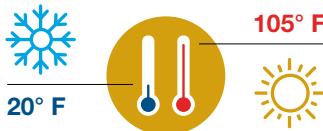
ADVANTECH™ SUBFLOOR ADHESIVE

Extreme holding power for the flat out best™ AdvanTech® subfloors.

8X MORE COVERAGE⁴

MORE COVERAGE IN EACH CAN

8x greater yield than traditional adhesive caulk⁴ means advanced strength with less product — a cost-effective, speedy application for your subfloor installations.



IDEAL FOR COLD AND WET CONDITIONS

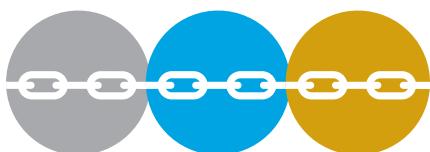
Formulated to adhere to wet and frozen structural subfloor panels and joists,³ this moisture curing poly adhesive is the ideal solution for not so ideal weather conditions.

EXPANDS INTO IRREGULARITIES



FILLS GAPS FOR A TIGHTER BOND

The foam to gel polyurethane formula expands into minor gaps between the subflooring panel and joist, maximizing adhesion for a tighter overall subflooring assembly.



POLYURETHANE BONDING STRENGTH

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

Technical Data	
Shelf Life	18 months
Open Time	20 minutes
Fully Cured	24 hours
Yield at 1/2" bead size ⁴	400 linear feet
Appl. Temperature Range	20° – 105°F
VOC Content	15 wt. %
VOC Content (California)	155 g/L
VOC Compliant ⁵	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 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 this adhesive. Not applicable over dimensional lumber framing or with other subfloor panels. Applies only to one and two family dwellings, townhomes and structures permitted under IRC or governing residential code. See SqueakFreeGuarantee.com for complete details.

² Builder Magazine 2002-2016 Brand Use Studies; #1 in OSB category.

³ Exceeds ASTM D3498 Standard Specification for Field-Gluing Plywood to Lumber Framing for Floor Systems, dry, wet, frozen, and gap filling adhesion tests.

⁴ 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. Coverage will vary based on bead size and weather conditions.

⁵ 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.

ADVANTECH® ROOF AND WALL SHEATHING

Performance that goes beyond the floor.

STRENGTH AND MOISTURE RESISTANCE FOR FLOORS AND ROOFS. AdvanTech® sheathing is available to bring the same level of quality to roof and wall systems. Now you can cover an entire project with the strength and protection of AdvanTech® products.



PERFORMANCE FEATURES:

1 Structural 1 Rated

Provides up to 10% more allowable shear strength than rated sheathing with the same thickness and nailing pattern.³ Designed for greater resistance to wind and seismic loads in wall/roof applications. Ideal for regions with heavy wind, rain, snow and ice.



2

Higher Strength, Stiffness And Fastener Holding Power
Unlike traditional OSB or plywood, AdvanTech® panels are built to a higher standard with an Evaluation Service Report⁴ documenting above-code performance for strength, stiffness and fastener holding power. So you can count on panels to install flat and stay flat.

3

Defends Against Moisture

Designed for a longer exposure during construction, backed by a 500-day weather resistance guarantee¹. So unlike OSB and plywood, AdvanTech sheathing is engineered to resist swelling, cupping and delamination.

4

Backed By A Lifetime Limited Warranty¹

AnvanTech sheathing is backed by a lifetime limited warranty — for added assurance both during and after construction.

¹ Limitations and restrictions apply. Visit AdvanTechPerforms.com for details.

² Based on design values documented in ESR-1785. 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.

³ Increased shear values achieved through higher bending strength ($F_{b,S}$), stiffness (EI) values than required by PS-2 to acquire Structural 1 rating. Non-proprietary DOC PS-2 Standard Test.

⁴ Based on the design values published in ICC-ES Evaluation Service Report, ESR-1785 and the 2012 APA Panel Design Specification, Form No. D510C.

OSB AND PLYWOOD SIMPLY CAN'T COMPARE.

AdvanTech® OSB and plywood simply can't compare. What's inside the panel makes all the difference: built-in resins resist the damaging effects of weather during construction and over time. Structural 1 rated to provide excellent shear resistance and added strength to your walls and roofs. Build with the lasting durability of AdvanTech® sheathing.



AdvanTech® roof and wall sheathing*

Performance Category	Panel Size	PS-2 Span Rating	Code Evaluation Report	Edge Profile	Panel Grade	Approx. Weight Per Panel**	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		--		78 lbs.	45 pcs.

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

**Estimated panel weight. Actual weight may vary by mill.

ADVANTECH® ROOF AND WALL SHEATHING

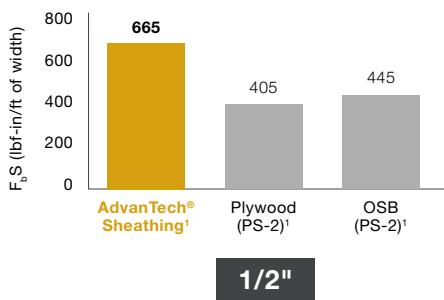
The clear leader in strength and stiffness.

ADVANTECH PANELS BRING TOGETHER A UNIQUE COMBINATION OF BENDING STRENGTH, stiffness and fastener holding power, helping to deliver exceptional structural performance for roof, wall and flooring applications to protect the integrity of the entire building.



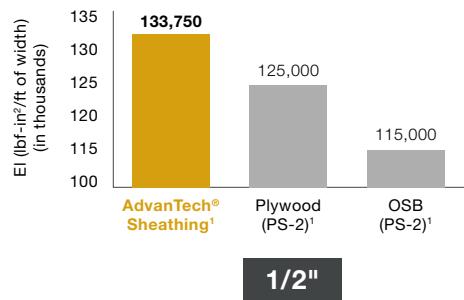
Design Bending Strength ($F_b S$)

sheathing panels (lbf-in/ft)



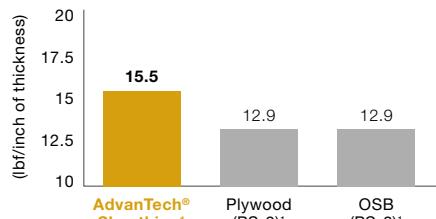
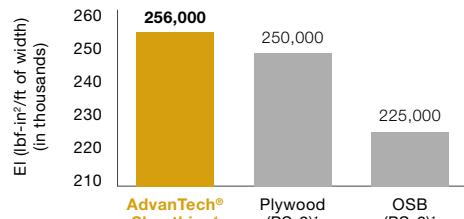
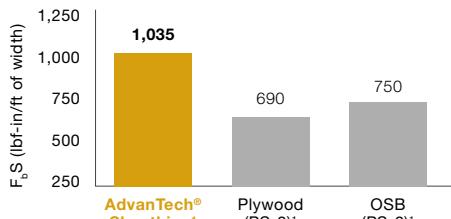
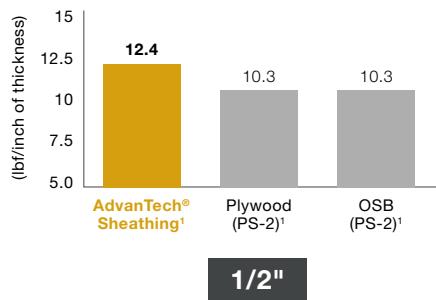
Design Bending Stiffness (EI)

sheathing panels (lbf-in²/ft)



Fastener Withdrawal Calculated Values²

(lbf/inch of thickness)

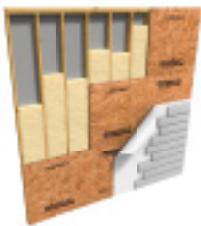


¹ Based on the design values published in ICC-ES Evaluation Service Report, ESR-1785 and the 2012 APA Panel Design Specification, Form No. D510C.

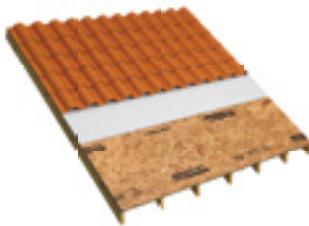
² Allowable nail withdrawal values were calculated in accordance with the 2015 National Design Specification for Wood Construction using a 0.131 inch diameter nail for flooring and 0.148 inch diameter nail for roof and wall sheathing calculations. American Wood Council ASD/LRFD.

ADVANTECH® FLOORING AND SHEATHING

Engineered for long-lasting quality and performance

**SHEAR WALL DESIGNS WITH
ADVANTECH® SHEATHING**

Structural-1 rating delivers greater shear resistance to wind and seismic loads.

**TILE ROOFS ABOVE
ADVANTECH® SHEATHING**

Panel 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® PANELS**

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.

ZIPsystem™ SHEATHING & TAPE

ZIP IT TIGHT.™

IN TODAY'S BUILDING CLIMATE, YOU NEED A TIGHT BUILDING ENVELOPE THAT WILL STAND UP TO THE ELEMENTS BEFORE, DURING AND AFTER CONSTRUCTION.

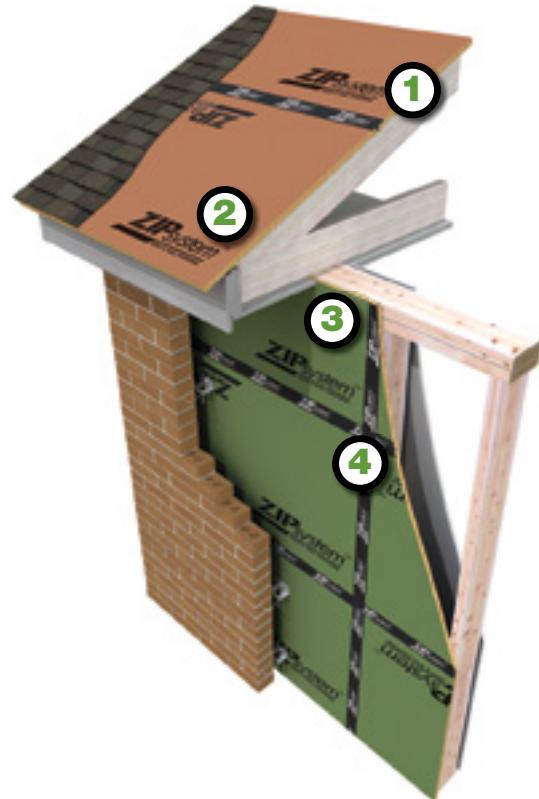
To spec it right, ZIP IT TIGHT™ with the protection of ZIP System® sheathing and tape. It's the one-of-a-kind structural roof and wall system with a built-in, air- and water-resistive barrier that keeps moisture out and reduces air leakage, while still allowing panels to properly dry. The system is installed in two easy steps: just install the panel and tape the seams. As a result, **ZIP System™ tape installs 40% faster** when compared to traditional housewrap and tape.



THE ANATOMY OF ZIP SYSTEM® SHEATHING AND TAPE:

SIMPLY INSTALL ZIP SYSTEM®
PANELS AND TAPE THE SEAMS FOR
MOISTURE AND AIR PROTECTION

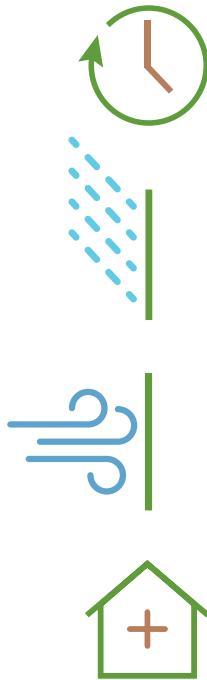
- 1 High quality structural sheathing panel made of engineered wood delivers strength and durability.
- 2 Built-in vapor permeable, water-resistive barrier enhances drainage and eliminates the hassles of building wrap and felt.
- 3 A continuous, rigid air barrier decreases unwanted air leakage for greater energy efficiency.
- 4 ZIP System™ tape, with a specially engineered, high performance acrylic adhesive, bonds with ZIP System® panels for a permanent protective seal.



ZIP SYSTEM® SHEATHING AND TAPE

For a high performing building.

PERFORMANCE FEATURES:



Speed and Ease of Installation

ZIP System® sheathing is easier to install than traditional building wrap and felt, helping save money on labor costs and [improve project cycle times](#).

Built-In 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.

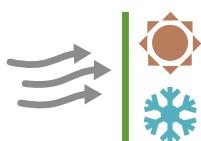
Energy Efficient Air Barrier

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.

Enhanced Structural Durability

ZIP System® panels are available with a Structural 1 rating, so you can get the ultimate shear strength to meet seismic and high-wind zone requirements. See website for details.

PLUS, AN OPTION TO PROVIDE:



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.

ZIP SYSTEM® SHEATHING AND TAPE

Keeps moisture out of the building envelope.

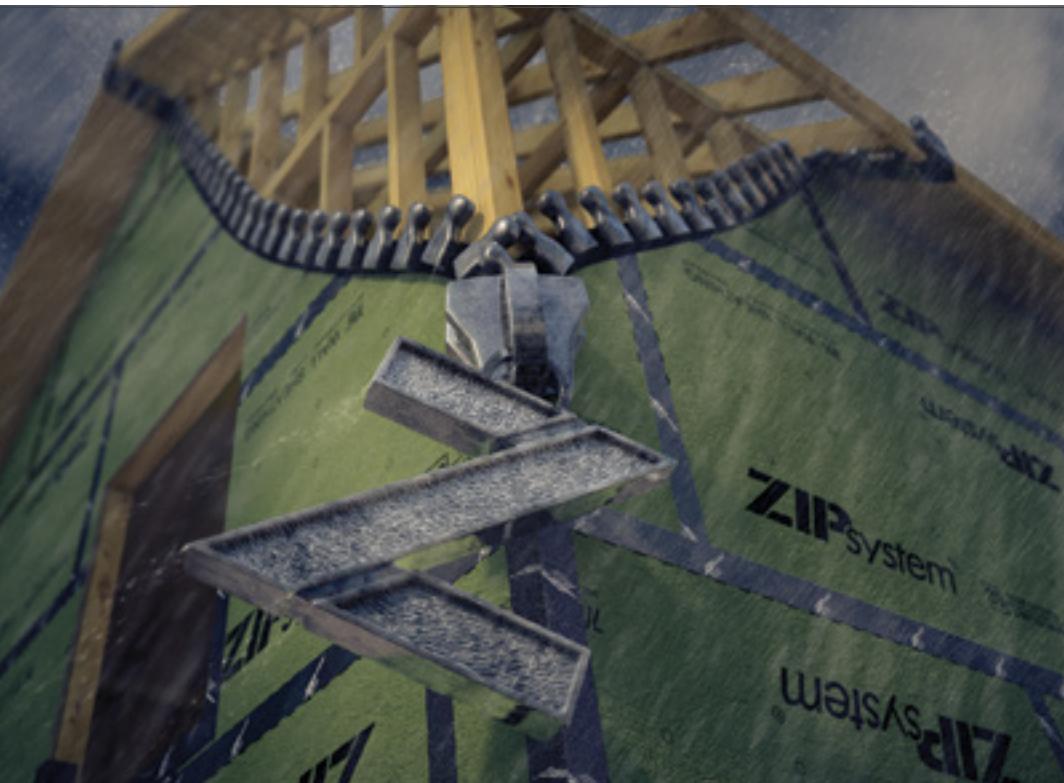
ZIP SYSTEM® SHEATHING IS A CODE-RECOGNIZED WATER RESISTIVE BARRIER that achieves greater than 90% drainage efficiency when tested in accordance with ASTM E-2273. ZIP System® sheathing installs without the hassles of building wrap and felt. Since the weather barrier is integrated directly onto the sheathing panels, it doesn't tear or blow off — even when exposed to harsh, wind-driven rain tests. This built-in barrier also helps eliminate the risk of water becoming trapped between building wrap and sheathing. Plus, the system seals tightly to provide a durable, rigid air barrier to reduce unwanted air leakage and increase energy efficiency. That's performance we back with a 30-year system limited warranty* and products that can withstand up to 180 days of exposure.*

* Limitations and restrictions apply. Visit ZIPSystem.com for details.



ENGINEERED FOR OPTIMAL BREATHABILITY

The ZIP System® sheathing overlay protects against water intrusion while providing an optimal vapor permeance level (12-16 perms) to allow panels to properly dry out.



ZIP SYSTEM® SHEATHING AND TAPE

Reduces air leakage for maximum energy efficiency.

AIR LEAKAGE IS ONE OF THE MOST SIGNIFICANT CAUSES OF ENERGY LOSS, because it works against expensive heating and cooling equipment by disrupting inside temperature. By forming a continuous, rigid air barrier, ZIP System® sheathing and tape reduces air leakage, while outperforming traditional sealing methods involving building wrap.

Taping the panel seams with ZIP System™ tape effectively seals the building envelope, decreasing unwanted air leakage into and out of the home. ZIP System® panels are structural, PS-2 rated panels with permanently integrated protective barriers. They're engineered to withstand the demands of the jobsite and provide long-term performance within the building structure. That's superior performance we back through extreme tests.



A TIGHTER SEAL THAT PROTECTS R-VALUE

Air leakage lessens the ability of insulation to resist heat flow, reducing its effective thermal resistance (R-Value). By eliminating gaps in the building envelope for a tighter seal, ZIP System® sheathing and tape better protects the wall system and prevents air leakage from degrading R-Value.



ZIP SYSTEM® SHEATHING AND TAPE

Spec it right. ZIP it tight.™



“ ZIP System® R-sheathing reduces air leakage, which ultimately decreases energy costs. I also love that it’s so durable. With other sheathing products that use housewrap, builders frequently have to repair tears. With ZIP System sheathing and tape, I don’t see those issues. ”

— Steven Baczek, Residential Architect, Boston, MA

7/16" ZIP System® roof and wall sheathing

Performance Category	Panel Size	Panel Count	PS-2 Span Rating	Code Evaluation Report	Vapor Transmission of WRB Layer	Air Barrier
7/16	4' x 8'	80	24/16 Structural 1*			ASTM E 2178 <0.02 L/(s·m²) @ 75 Pa
7/16 Extended Lengths	4' x 9' 4' x 10' 4' x 9' 1-1/8" 4' x 10' 1-1/8"	70 60 70 60	24/16 Structural 1	ESR 1473 ESR 1474	12-16 perm ASTM E 96 Procedure B	ASTM E 2357 <0.2 L/(s·m²) @ 75 Pa

1/2" and 5/8" ZIP System® roof and wall sheathing

Performance Category	Panel Size	Panel Count	PS-2 Span Rating	Code Evaluation Report	Vapor Transmission of WRB Layer	Air Barrier
1/2	4' x 8'	70	32/16 Structural 1			ASTM E 2178 <0.02 L/(s·m²) @ 75 Pa
5/8	4' x 8'	55	40/20 Structural 1	ESR 1473 ESR 1474	12-16 perm ASTM E 96 Procedure B	ASTM E 2357 <0.2 L/(s·m²) @ 75 Pa

* Limitations may apply.

Although all projects are unique, experience has shown that 1 roll of 3 3/4" ZIP System™ flashing tape is needed for approximately 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® R-SHEATHING

A single panel with multiple advantages.

FOR INSTALLATION CONVENIENCE AND EXCEPTIONAL, LONG-TERM PERFORMANCE, all-in-one ZIP System® R-sheathing panels and tape provide a new approach to sealing and insulating the building envelope. One panel delivers thermal, air and moisture resistance, while providing excellent strength and durability. This single-piece design lets you avoid the hassles of multi-product systems. Just install the panels and tape the seams for a wall system that provides structure, moisture protection, air tightness and insulation in a single installation.

Available in a variety of insulation of thicknesses to provide R-3, R-6, R-9 and R-12 values.



5-IN-1 SYSTEM WITH LAYERS OF INNOVATION

Use ZIP System R-sheathing to meet new continuous insulation requirements in the 2015 International Energy Conservation Code. For high-performance structures, ZIP System R-sheathing is a simplified solution for moisture and thermal management in exterior walls.



1 Continuous Foam Insulation Provides Higher R-Value

- Increases thermal performance while minimizing thermal bridging
- Designed to meet new energy codes

2 Engineered Wood Provides Structure and Durability²

- Nailable wood base for trim and accessories
- Provides security against easy home intrusion

3 Built-In Water Resistive Barrier Eliminates Building Wrap and Felt

- Eliminates costly rework
- Instant rough dry-in can withstand up to 180 days of exposure*
- Enhanced drainage plane channels moisture downward off the panel face
- Permeable overlay promotes panel drying

4 Continuous Air Barrier Contributes to Greater Energy Efficiency

- Decreases unwanted air leakage into and out of a building
- Helps protect the R-Value of insulation, reducing heating and cooling costs

5 ZIP System™ Flashing Tape Securely Seals Panel Seams

- Acrylic formulation provides superior adhesion
- Rigorously tested for long-lasting performance
- Easily applied with ZIP System® tape gun and accessories

* Limitations and restrictions apply. Visit ZIPSyste.com for details.

1", 1-1/2", 2", 2-1/2" ZIP System® R-sheathing						
Panel Type ²	Total Thickness	Panel Size	Panel Count	R-value	Code Evaluation Report	Air Barrier
R-3	1"	4' x 8'	32	3.6	ESR 3373	ASTM E 2178 <0.02 L/(s·m ²) @ 75 Pa
R-6	1-1/2"	4' x 8'	31	6.6		ASTM E 2357 <0.2 L/(s·m ²) @ 75 Pa
R-9	2"	4' x 8'	23	9.6		
R-12	2-1/2"	4' x 8'	18	12.6		

Foam Performance			ZIP System® Performance		
Property	Test Method	Typical Results	Water Resistance of Coatings	ASTM D 2247 (for 14 days)	Passed
Dimensional Stability	ASTM D 2126	<2%	Drainage Efficiency	ASTM E 2273	> 90%
Compressive Strength	ASTM D 1621	20 psi	Water Vapor Transmission	ASTM E 96B	12-16 perms (overlay)
Water Absorption	ASTM C 209 ASTM D 2842	<1% <3.5%	Water Penetration	ASTM E 331	Passed
Water Vapor Transmission	ASTM E 96	<1.0 perm	Air Barrier Assembly	ASTM E 2357 at 75 Pa	0.037 L/(s·m ²)
Density	ASTM D 1622	Nominal 2.0 pcf	Wind Driven Rain	TAS-100	Passed 100mph
Flame Spread	ASTM E 84	40-60	Accelerated Weathering	ASTM G 154	Passed
Smoke Developed	ASTM E 84	50-170			
Tensile Strength	ASTM D 1623	> 730 psf			
Service Temperature		-40°– 200°F			

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.

DESIGN RATED
ESR-3373



FASTENING REQUIREMENTS FOR PRESCRIPTIVE BRACING^{1,2} AND ENGINEERED SHEAR WALL DESIGN³

ZIP System® R-sheathing Type ⁵	Framing ⁴		Fasteners			Shear Values	
	Nominal Stud Spacing (min.)	Maximum Stud Spacing (in.)	Fastener Specifications ⁶	Edge/Field Spacing (in.)	Minimum Penetration into Framing (in.)	Allowable Seismic Controlled Shear Values ^{7, 9} (plf)	Allowable Wind Controlled Shear Values ⁷ (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 ⁸	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.

1 Prescriptive bracing requirements with Douglas Fir-Larch Framing under the 2015, 2012, and 2009 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 2015, 2012, and 2009 IBC.

4 For framing with other than Douglas Fir-Larch, the shear value above must be multiplied by the Specific Gravity Adjustment Factor = [1 - (0.50 - SG)], where SG=Specific Gravity of the framing lumber in accordance with the ANSI/AWC NDS. This adjustment factor must not be greater than 1.

5 Type R-3 R-sheathing panels have a foam plastic insulation thickness of .5". Type R-6 R-sheathing panels have a foam plastic insulation thickness of 1". R-9 R-sheathing panels have a foam plastic insulation thickness of 1.5". Type R-12 R-sheathing panels have a foam plastic insulation thickness of 2".

6 Fasteners must be common nails or equivalent, or staples, of a type generally used to attach wood sheathing.

7 The shearwalls must have a maximum height-to-width aspect ratio of 2:1.

8 This panel and fastening configuration is only applicable to the prescriptive bracing requirements under the 2015 IRC.

9. ZIP System R-sheathing used as the lateral resistance system in seismic zones C, D₀, D₁, D₂ and E should be designed in accordance to ER-482.

ZIP SYSTEM® LONG LENGTH SHEATHING

Taller, tougher and fewer seams.

GET ALL THE BENEFITS OF LONG LENGTH WALL SHEATHING with the built-in

moisture and air leakage protection of ZIP System® sheathing and tape. ZIP System® long length sheathing and wind zone panels provide flexibility of a longer panel with the ability to completely eliminate building wrap.



4' x 9'



4' x 10'

ZIP System® long length sheathing is ideal for single and multi-story projects.



4' x 9' + 1-1/8"



4' x 10' + 1-1/8"

ZIP System® wind zone panels are 1-1/8" taller, accommodating roof uplift in single-story projects without requiring additional paneling above.



“ The built-in, water-resistive, vapor-permeable barrier is ideal for waterproofing, which is of the utmost importance for any construction project. ”

—Keith Anderson, President of Clark Builders Group, Arlington, VA

Compare For Yourself	Other long length panels	ZIP System® long length panels	ZIP System® wind zone panels
More efficient panel installation	X	X	X
Can eliminate blocking at horizontal panel seams	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*	X	X	X
Eliminate need for housewrap with built-in, vapor permeable, water-resistive barrier	X	X	X
Continuous rigid air barrier decreases unwanted air leakage for greater energy efficiency	X	X	X
Backed by a 30-year system warranty**	X	X	X
Long length panel, water-resistive barrier, air barrier and seam sealer are an engineered system from the same manufacturer	X	X	X
Structural 1 rating for 7/16", 1/2" and 5/8" sizes***	X	X	X

* See the American Wood Council, Special Design Provisions for Wind and Seismic, AWC SDPWS-2015.

** Limitations and restrictions apply. Visit ZIPSystem.com for details.

*** 1/2" and 5/8" 9' and 10' panels available by special order.

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
Long Length	7/16	4' x 9' 4' x 10'	70 60	24/16 Structural 1	ESR 1473 ESR 1474	12-16 perm ASTM E 96 Procedure B	ASTM E 2178 <0.02 L/(s·m²) @ 75 Pa
Wind Zone	7/16	4' x 9' 1-1/8" 4' x 10' 1-1/8"	70 60				ASTM E 2357 <0.2 L/(s·m²) @ 75 Pa

ZIP SYSTEM™ FLASHING TAPE

A tight seal for long-term performance.

ZIP SYSTEM™ FLASHING TAPE IS MADE OF AN ADVANCED ACRYLIC ADHESIVE, proven to deliver a superior airtight and watertight seal that withstands many years of harsh weather. It installs quickly by hand and roller, or by using the ZIP System® tape gun, and is ideal for both seam sealing and flashing applications.



WATER RESISTIVE BARRIER when used with ZIP System® sheathing



Works on a VARIETY OF SURFACES



REPOSITIONABLE material



Cold temperature application AS LOW AS 20 DEGREES F



SUPERIOR ACRYLIC ADHESION better than butyl/asphalt



180-DAY EXPOSURE guarantee*



“ We are a husband/wife architectural firm and this was the second studio residence we built for ourselves. ZIP System® sheathing & tape very quickly had the building watertight and on our way to the LEED Silver rating. ”

— Jose E. Tavel & Cara B. Cummins, Architects, TaC Studios, Atlanta, GA

EVERY LAYER WORKS TOGETHER FOR TOTAL PERFORMANCE AND PROTECTION

1 Slip Resistant

- Top layer provides good tack during installation for safety

2 Weather and UV Protection

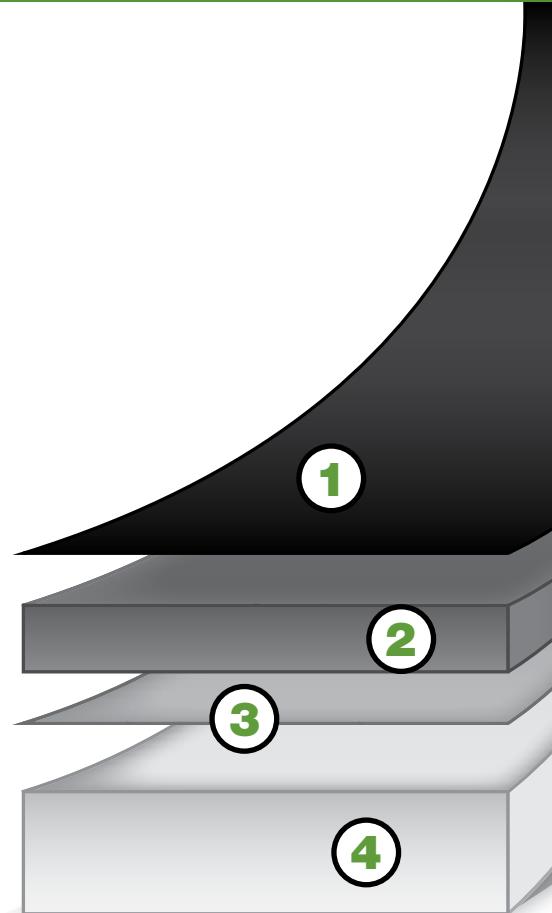
- Thick inner layer offers dimensional stability
- Carbon black – for “sunscreen” that protects other layers
- Antioxidants for durability
- Warranted for up to 180 days of extreme weather and UV exposure*

3 Long-Term Durability

- Bonding layer specially formulated to bond with the adhesive for durability

4 All Weather Adhesion

- Consistent adhesion even under harsh weather conditions
- Backed by a 30-year limited warranty when used with ZIP System® sheathing
- Resists heat and UV light and creates permanent bond strength



ZIP System™ flashing tape								
Nominal Width	Roll Length	Tape Thickness	Adhesive Technology	Code Evaluation Report	Installation Temperature Range	Allowable UV Exposure	Tensile Strength	Elongation
3-3/4"	90'	12 mils	Acrylic	ESR 2227 AAMA 711-07: Pass	20° – 120°F	180 Days*	938 psi	400%-800%
6"	75'							

* Limitations and restrictions apply. Visit ZIPSysten.com for details.

ZIP SYSTEM™ STRETCH TAPE

Single Piece Installation Stretches, Curves, Sticks and Seals.

SINGLE PIECE INSTALLATION

STRETCHES, CURVES, STICKS AND SEALS.

Revolutionary ZIP System™ stretch tape easily stretches to fit sills, curves and corners with a single piece without having to piece tape segments together. This avoids seams or joints. Made of a high-performance composite acrylic, the tape conforms to challenging applications and locks out moisture even over mismatched surfaces. And ZIP System stretch tape can be pulled up and reapplied for hassle-free installation, providing a tight, energy-efficient seal in no time!



SPEED THROUGH APPLICATIONS WITH TAPE THAT STRETCHES

ZIP System™ stretch tape is fast and effective, so you can zip through tricky installations with ease.

Stretches to fit

Easily stretches to conform to corners and curves

Excellent moisture barrier

Provides a strong tight bond for an effective ZIP IT TIGHT™ seal, even around fasteners

Labor saving

Eliminates the need to piece tape segments together in challenging applications

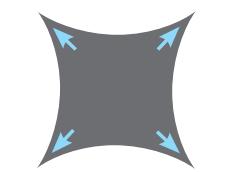
Repositionable

Can be pulled up and reapplied for hassle-free installation

Versatile

Ideal for your toughest applications including curved windows and wall penetrations

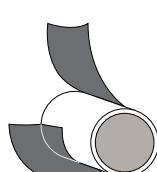
ZIP SYSTEM™ STRETCH TAPE WORKS ON A VARIETY OF APPLICATIONS.



Stretches in Any Direction



Window Sill



Wall Penetration



Curved Window



WATER RESISTIVE BARRIER when used with ZIP System® sheathing



Works on a VARIETY OF SURFACES



REPOSITIONABLE material



Cold temperature application **AS LOW AS 20 DEGREES F**



SUPERIOR ACRYLIC ADHESION better than butyl/asphalt



180-DAY EXPOSURE guarantee*

ZIP System™ stretch tape						
Nominal Width	Roll Length	Tape Thickness	Installation Temperature Range	Allowable UV Exposure	Tensile Strength	Elongation
6"	75'	42 mils	20° – 120°F	180 Days*	225 psi	800%-1200%
10"						

* Limitations and restrictions apply. Visit ZIPSyste.com for details.

ZIP SYSTEM™ LIQUID FLASH

Ideal for sealing irregular,
curved or hard-to-flash areas.

ZIP SYSTEM™ LIQUID FLASH IS A LIQUID-APPLIED
FLASHING MEMBRANE made of STPE (silyl-terminated-polyether)
technology. This high-performance formulation combines the durability of
silicones with the toughness of urethanes.



“ I live in New England, and we were hammered with over 6 inches of rain in the past three or four days during my construction. Through all the rain, not one leak. ZIP System® sheathing & tape held up beyond my expectations! ”

— Chris Ball, Architect

PERFORMANCE FEATURES:

1 Weather and UV Resistant

Warranted for up to 180 days of extreme weather and UV exposure.*

2 Optimal Viscosity

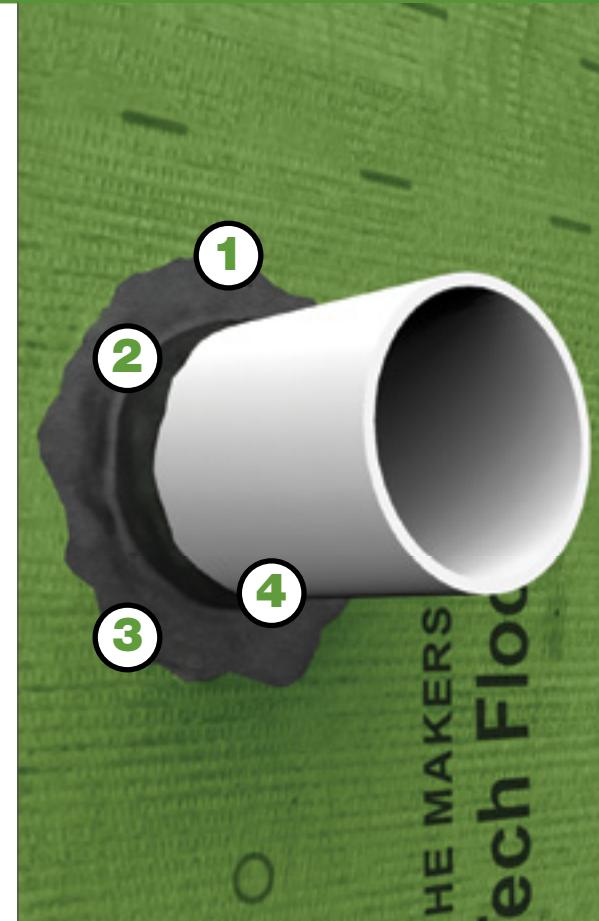
Flows easily to seal irregular shapes and surfaces.

3 Quick Cure Time

Weather resistant and tack free in as little as 20–40 minutes, depending on conditions. Target thickness achieved when substrate is no longer visible.

4 Proper Adhesion to a Wide Range of Surfaces

Bonds to wood, concrete, masonry, architectural metals, glass, PVC, FRP, EPDM and most other building materials.



ZIP System™ liquid flash								
Packaging Options	Roll Length	Cured Thickness	Compound Technology	Water and Air Penetration	Installation Temperature Range	Allowable UV Exposure	Tack Free Time	Cure Time
20 oz. Re-fill tube	20 lf (approx. six 3'0" window sills)	12 mils	STPE Polymer	ASTM E331: Pass ASTM E2357: Pass	35° – 110°F	180 Days*	20 - 40 Minutes**	12 mils = 4 Hours**
29 oz. Cartridge	29 lf (approx. nine 3'0" window sills)							

* Limitations and restrictions apply. Visit ZIPSystem.com for details.

** At 70°F and 50% relative humidity. Low temperatures and low relative humidity slow dry time; high temperatures and high relative humidity accelerate dry time.