



AdvanTech



ENGINEERED
WOODS

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



ENGINEERED TO BRING PERFORMANCE, QUALITY AND CONFIDENCE INTO EVERY FLOOR.

Engineered with strength, moisture resistance and nail-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 most from your subfloors and everything you build on top of them for the FLAT OUT BEST™ in quiet, stiff floors.



AdvanTechQuiet.com

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**500 DAY
WEATHER
GUARANTEE**



BUILT TO A HIGHER STANDARD

AdvanTech® subflooring is substantiated by third-party evaluation services for published design values for strength, stiffness and fastener-holding power above PS-2 minimums.² These values are documented in ESR-1785.³

Visit icc-es.org for the full report.

LIFETIME LIMITED WARRANTY⁴

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

NO-SANDING GUARANTEE⁴

AdvanTech® subflooring panels 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.

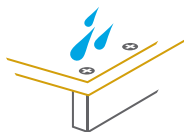
VOTED #1 IN QUALITY⁵

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.



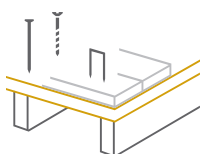
LONG-LASTING STRENGTH AND STIFFNESS

High wood density, paired with advanced engineering, provides the strength and stiffness needed to deliver a quiet, stiff floor.



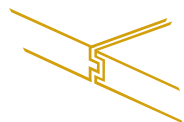
DEFENDS AGAINST MOISTURE

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. AdvanTech® flooring is substantiated by third party evaluation services for published design values for strength, stiffness and fastener holding power above PS-2 minimums. ESR-1785 documents design values for AdvanTech® panels above commodity-grade panels. Please see ESR-1785 for published design values for AdvanTech® panels. Only 23/32 thickness AdvanTech® flooring, 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 HuberWood.com/warranties for details.

5. *BUILDER* magazine's 2002-2019 Brand Use Studies; OSB category.

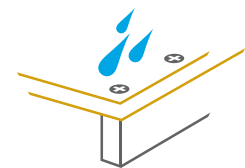
6. See AdvanTech Flooring Product Data Sheet on AdvanTechPerforms.com for available thicknesses stamped as Structural 1.

FLAT OUT BEST™ FOR A QUIET, STIFF FLOOR.



QUALITY HOMES DEPEND ON QUALITY SUBFLOORS.

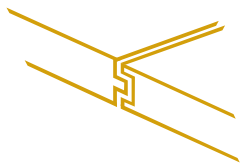
AdvanTech® subflooring delivers performance and peace of mind into every floor you build. Give your finished floors the base they deserve with the combination of strength, fastener holding power and moisture resistance from AdvanTech subflooring.



1

MOISTURE PROTECTION THROUGHOUT THE ENTIRE PANEL

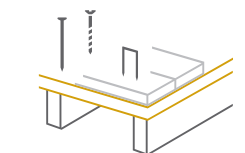
Every wood strand is coated with advanced moisture-resistant resins that provide moisture resistance even along freshly cut edges.



2

SELF-SPACING TONGUE AND GROOVE PROFILE

The precisely engineered and durable profile helps ensure every panel fits together easily.



3

LIES FLAT AND INSTALLS EASILY

Advanced quality controls and innovative manufacturing process help ensure every panel goes down with ease.

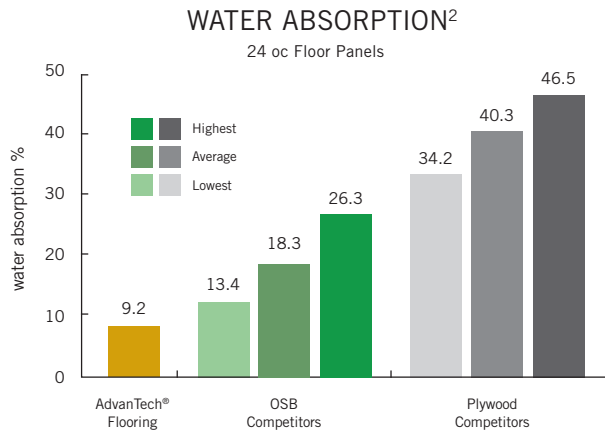
4

HIGH WOOD DENSITY

More wood is packed into each panel of AdvanTech® engineered subflooring. This produces an ultra-dense, ultra-strong panel that securely grips fasteners.

DEFENDS AGAINST WATER¹

Help protect against swelling, cupping and delamination with the advanced resin technology of AdvanTech® subflooring. Improve cycle time by reducing costly re-work, construction delays and homeowner callbacks.

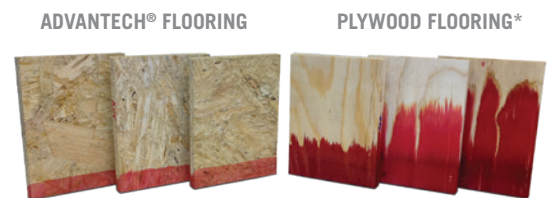


THE MOISTURE-RESISTING ADVANTAGE YOU CAN SEE

24-HOUR EDGE SWELL DEMONSTRATION

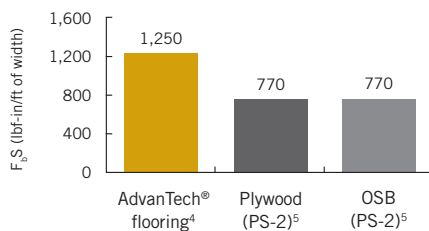


3-HOUR WICKING DEMONSTRATION



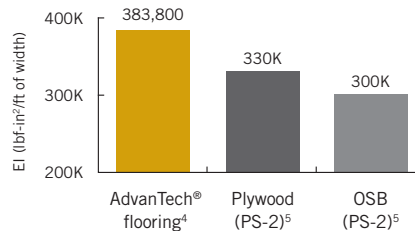
DESIGN BENDING STRENGTH ($F_b S$)

24 oc Floor Panels (lbf-in/ft)



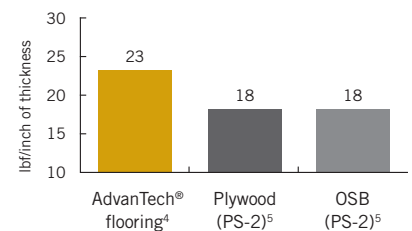
DESIGN BENDING STIFFNESS (EI)

24 oc Floor Panels (lbf-in²/ft)



FASTENER WITHDRAWAL CALCULATED VALUES³

(lbf/inch of thickness)



ADVANTECH® SUBFLOORING⁶

PERFORMANCE CATEGORY	PANEL SIZE	PS-2 SPAN RATING	CODE EVALUATION REPORT	EDGE PROFILE	PANEL GRADE	APPROX. WEIGHT PER PANEL ⁷	PANELS PER UNIT
19/32	4' x 8'	20 oc	x	T&G	rated for 19/32 ^a	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.

- During the construction process as related to dimensional stability (thickness swell, linear expansion, edge swell, water absorption or surface quality) of the product.
 - 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.
 - Allowable nail withdrawal values were calculated in accordance with the 2018 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.
 - Based on the minimum design values published in ICC-ES Evaluation Service Report, ESR-1785 and the 2012 APA Panel Design Specification, Form No. D510C.
 - 2012 APA Panel Design Specification, Form No. D510C.
 - Net face width is 47-1/2" on tongue and groove panels.
 - Estimated panel weight. Actual weight may vary by mill.
- * References to OSB and plywood are to traditional OSB and traditional plywood.

SAY GOODBYE TO FLOOR SQUEAKS.



OUR WORD IS OUR BOND

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

A unique foam-to-gel formula, AdvanTech subfloor adhesive can be applied on wet or frozen wood¹. 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 the industry's only Squeak-Free Guarantee™².



**QUICK
AND EASY
APPLICATION**



**ADHERES TO
WET AND
FROZEN WOOD¹**



**SQUEAK-FREE
GUARANTEE²**



**20-MINUTE
OPEN TIME**

SQUEAK-FREE GUARANTEE

for AdvanTech™ Subfloor Assembly at Joist Connection





MORE COVERAGE IN EACH CAN

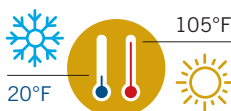
8x greater yield than traditional adhesive caulks³ means advanced strength with less product – a cost-effective, speedy application for your subfloor installations.

EXPANDS INTO
IRREGULARITIES



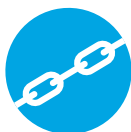
FILLS GAPS FOR A TIGHTER BOND

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



IDEAL FOR COLD AND WET CONDITIONS

Formulated to adhere to wet and frozen structural subfloor panels and joists¹, 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 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 ³	400 linear feet
Appl. Temperature Range	20°F – 105°F
VOC Content	<15 w/w %
VOC Content (California)	<155 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

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

COVER YOUR HOMES IN STRENGTH AND PROTECTION.

A DURABLE HOME STARTS WITH A STRONG, MOISTURE-RESISTANT BASE

Oriented strand board (OSB) and traditional plywood* simply can't compare. What's inside AdvanTech® sheathing panels makes all the difference: moisture-resistant resin technology resists the damaging effects of weather during construction and over time and is Structural 1 rated to provide excellent shear resistance and added strength to your walls and roofs. Protect your build with the lasting durability of AdvanTech sheathing.

**500 DAY
WEATHER
GUARANTEE¹**

1

DEFENDS AGAINST MOISTURE

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

2

BACKED BY A LIFETIME LIMITED WARRANTY¹

AdvanTech sheathing is backed by the best warranty in the business – a lifetime limited warranty – for added assurance both during and after construction.



3

STRENGTH, STIFFNESS AND FASTENER-HOLDING POWER

Unlike traditional OSB or plywood, AdvanTech® panels are built to a higher standard with an Evaluation Service Report² documenting above-code performance for strength, stiffness and fastener-holding power. So you can count on panels to install flat. These values are documented in ESR-1785.³ Visit icc-es.org for the full report.



4

STRUCTURAL 1 RATED

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

1. Limitations and restrictions apply. Visit HuberWood.com/warranties for details.

2. AdvanTech® roof and wall sheathing is substantiated by third party evaluation services for published design values for strength, stiffness and fastener holding power above PS-2 minimums. ESR-1785 documents design values for AdvanTech® panels above commodity-grade panels. Please see ESR-1785 for published design values for AdvanTech® panels. Only 23/32 thickness AdvanTech® flooring, and 1/2 and 5/8 thicknesses of AdvanTech® roof and wall sheathing are included in ICC-ES report ESR-1785.

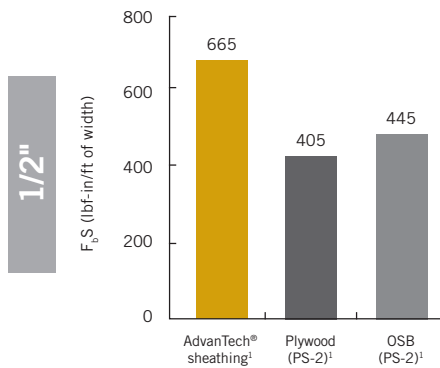
3. ESR-1785 is an Evaluation Services Report (ESR) issued by the International Code Council Evaluation Service. Evaluation reports from ICC Evaluation Service are frequently used by code officials to verify that new and innovative building products comply with code requirements.

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

DESIGNED TO A HIGHER STANDARD.

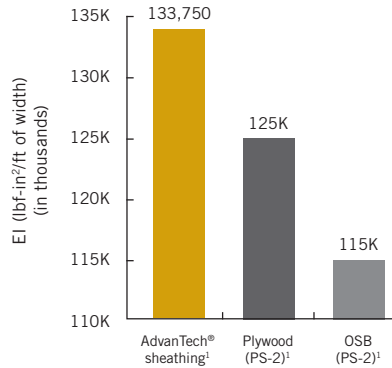
DESIGN BENDING STRENGTH (F_b)

Sheathing Panels (lb-ft/ft)



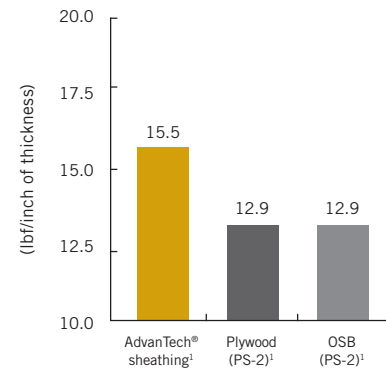
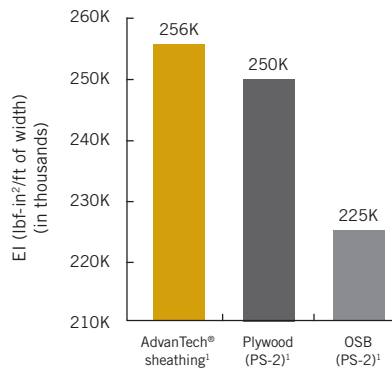
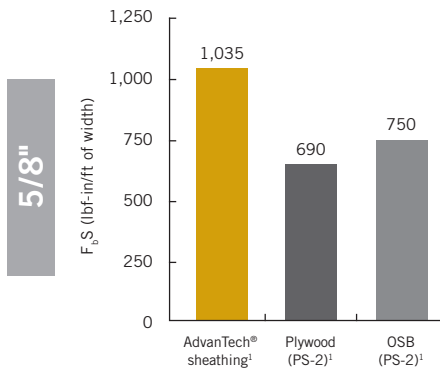
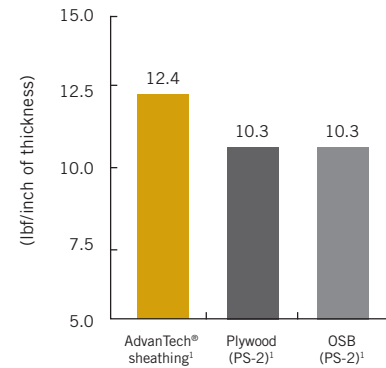
DESIGN BENDING STIFFNESS (EI)

Sheathing Panels (lb-ft²/ft)



FASTENER WITHDRAWAL CALCULATED VALUES²

(lb/inch of thickness)



ADVANTECH® ROOF AND WALL SHEATHING³

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	—	SE		78 lbs.	45 pcs.

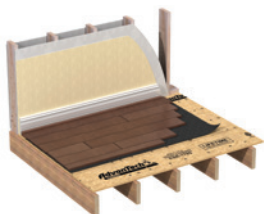
1. Based on the minimum design values published in ICC-ES Evaluation Service Report, ESR-1785 and the 2012 APA Panel Design Specification, Form No. D510C.

2. Allowable nail withdrawal values were calculated in accordance with the 2018 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.

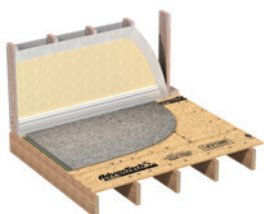
4. Estimated panel weight. Actual weight may vary by mill.

A SOLID CHOICE FOR A VARIETY OF FLOOR, ROOF AND WALL APPLICATIONS.



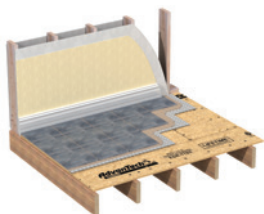
HARDWOODS OVER ADVANTECH® SUBFLOORING

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



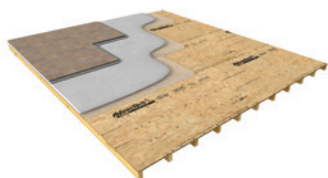
CARPET OVER ADVANTECH SUBFLOORING

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



TILE AND STONE 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.



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.

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	61 lbs.	55 pcs.
	23/32	72 lbs.	45 pcs.
Commerce, GA	19/32	68 lbs.	55 pcs.
	23/32	78 lbs.	45 pcs.
Crystal Hill, VA	7/8	94 lbs.	40 pcs.
	1	110 lbs.	35 pcs.
	1-1/8	124 lbs.	30 pcs.
	19/32	68 lbs.	55 pcs.
	23/32	78 lbs.	45 pcs.
Broken Bow, OK	7/8	94 lbs.	40 pcs.
	1	108 lbs.	35 pcs.
	1-1/8	126 lbs.	30 pcs.
	23/32	85 lbs.	45 pcs.
Spring City, TN	23/32	85 lbs.	45 pcs.

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



Access step-by-step instructions and how-to videos on YouTube. Subscribe now at [YouTube.com/AdvanTechFlooring](https://www.youtube.com/AdvanTechFlooring)



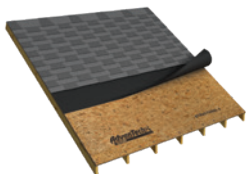
SHEAR WALL DESIGNS WITH ADVANTECH® SHEATHING

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



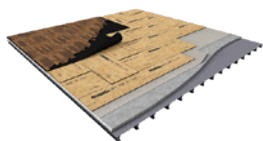
TILE ROOFS ABOVE ADVANTECH SHEATHING

Strength, durability and fastener-holding power provide an exceptional base for heavy roofing materials.



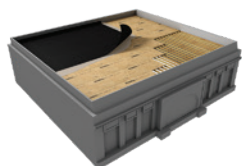
SHINGLES ABOVE ADVANTECH SHEATHING

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® 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.

STRUCTURAL 1 SHEATHING MILL SPECIFICATIONS

MILL	PERFORMANCE CATEGORY (IN)	APPROX. ² WEIGHT PER PANEL	PANELS PER UNIT
Easton, ME	1/2 5/8	52 lbs. 64 lbs.	70 pcs. 55 pcs.
Commerce, GA	1/2	52 lbs.	70 pcs.
Crystal Hill, VA	5/8	67 lbs.	55 pcs.
Broken Bow, OK	1/2 5/8	58 lbs. 70 lbs.	70 pcs. 55 pcs.

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



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HuberWood.com
AdvanTechQuiet.com
HuberArchitectLibrary.com

For Technical Questions: 800.933.9220 ext. 2716 or techquestions@huber.com.