Advantech® subflooring and sheathing products deliver an unmatched combination of strength, moisture resistance and award-winning quality to every project.
THE RIGHT CHOICE NOW FOR A LIFETIME OF PERFORMANCE

AdvanTech® subflooring and sheathing products deliver award-winning quality and performance from the jobsite through the life of the home. Each panel is engineered to provide an unmatched combination of strength, stiffness, fastener-holding power, moisture resistance and installation ease.

TOTAL PERFORMANCE FOR FLOORS, ROOFS AND WALLS

– High-density engineered wood panels provide reliable strength and stiffness
– Advanced moisture-resistant resin technology applied throughout the panel
– Specially designed to grip fasteners in place to help finished floors stay quiet and exterior roof and wall coverings firmly in place
– Patented fastening guide for easier installation
– Precisely milled, durable tongue and groove profile for easy installation
– Ranked #1 in quality by builders every year since 2002 ¹
– Backed by a 500-day No Sanding Guarantee ² and a Lifetime Limited Warranty ²

AWARD WINNING QUALITY.

AdvanTech subflooring has been rated #1 in quality every year for more than a decade in Builder Magazine’s annual nationwide survey of builders. No other subfloor panel matches the award-winning quality and performance of AdvanTech subflooring.

ESR-1785 documents design values for AdvanTech subflooring above commodity-grade panels.

These values are available in ESR-1785 and can be viewed at www.icc-es.org.

¹ Builder Magazine’s 2002-2016 Brand Use Studies; OSB category.
² Limitations and restrictions apply. Visit AdvanTechPerforms.com for details.
³ AdvanTech subflooring 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 subflooring published design values.
⁴ 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.
A SOLID CHOICE FOR A VARIETY OF FLOOR, ROOF AND WALL APPLICATIONS

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

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

TILE AND STONE OVER ADVANTECH® SUBFLOORING
High performance strength and stiffness help reduce the risk of cracked tile and stone.

SHINGLES ABOVE ADVANTECH® SHEATHING
Strong, moisture resistant panels install flat and stay flat to help eliminate visible seams so exterior materials look their best.

SHEAR WALL DESIGNS WITH ADVANTECH® SHEATHING
Structural-1 rating delivers greater shear resistance to wind and seismic loads.

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.

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.

VISIT ADVANTECHPERFORMS.COM FOR MORE APPLICATIONS AND TECHNICAL TIPS
Advantech® subflooring delivers performance and peace of mind into every floor you build. Give your finished floors the base they deserve with the unmatched combination of strength, fastener holding power and moisture resistance from Advantech subflooring.

**DEFENDS AGAINST WATER**
Advantech subflooring’s best-in-class water resistance protects against swelling, cupping and delamination. This helps improve cycle time by reducing costly rework, construction delays and homeowner callbacks.

**POWERFUL STRENGTH AND STIFFNESS**
Advantech subflooring brings together a unique combination of bending strength and stiffness. Advantech® panels deliver exceptional structural performance for the flooring system to protect the integrity and quality of the entire home.

**FASTENER HOLDING POWER**
The high wood density and advanced resins inside Advantech subflooring securely hold floor fasteners in place, helping to reduce nail pops and floor squeaks.

**STRUCTURAL 1**
Advantech® subflooring and sheathing panels are tested and marked as Structural 1 to satisfy the most demanding of specifications.¹

**INSTALLATION SPEED AND EASE**
Consistent manufacturing, plus pre-printed fastening guides and a precisely engineered tongue and groove profile, help ensure every panel of Advantech subflooring installs quickly and easily.

**BACKED BY A LIFETIME LIMITED WARRANTY²**
We support our Advantech® panels with a lifetime limited warranty, along with a 500-day no-sanding guarantee.² With a guarantee like this, your moisture-related jobsite headaches are over.
MOISTURE RESISTANCE MATTERS
THE MOISTURE RESISTANCE ADVANTAGE YOU CAN SEE

24 HOUR WATER SOAK DEMONSTRATION
VS. OSB
Traditional Oriented Strand Board (OSB) has a reputation for frequent swelling and weakening after exposure to moisture. But AdvanTech® panels are made to withstand the elements – guaranteed.

3 HOUR WATER SOAK DEMONSTRATION
VS. PLYWOOD
When soaked in 1 inch of red water, the water line on the AdvanTech® panel barely moves, while the water line on the plywood panel sample moves up significantly. Water absorption can lead to swelling, cupping, delamination and other moisture-related damage.

ADVANCED STRENGTH, STIFFNESS AND FASTENER HOLDING POWER

<table>
<thead>
<tr>
<th>Design Bending Strength (F_bS)</th>
<th>Design Bending Stiffness (EI)</th>
<th>Fastener Withdrawal Calculated Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 oc Floor Panels (lbf-in/ft)</td>
<td>24 oc Floor Panels (lbf-in²/ft)</td>
<td>(lbf/inch of thickness)</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>AdvanTech® subflooring</td>
<td>Plywood (PS-2)</td>
<td>OSB (PS-2)</td>
</tr>
<tr>
<td>1,600</td>
<td>1,250</td>
<td>770</td>
</tr>
<tr>
<td></td>
<td>770</td>
<td>330K</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

### Performance Category

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

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

1 See AdvanTech Flooring Product Data Sheet on AdvanTechPerforms.com for available thicknesses stamped as Structural 1.
2 Limitations and restrictions apply. Visit AdvanTechPerforms.com for details.
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 subflooring and 0.148 inch diameter nail for roof and wall sheathing calculations. American Wood Council ASD/LRFD.
5 2012 APA Panel Design Specification, Form No. D510C.
FLOOR SQUEAKS HAVE MET THEIR MATCH.

FROM THE MAKER OF #1 QUALITY 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.¹ 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

8X MORE COVERAGE
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
8X MORE COVERAGE

MORE COVERAGE IN EACH CAN
8x greater yield than traditional adhesive caulks 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, this moisture curing polyurethane 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.

<table>
<thead>
<tr>
<th>Technical Data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shelf Life</strong></td>
<td>18 months</td>
</tr>
<tr>
<td><strong>Open Time</strong></td>
<td>20 minutes</td>
</tr>
<tr>
<td><strong>Fully Cured</strong></td>
<td>24 hours</td>
</tr>
<tr>
<td><strong>Yield at 1/2” bead size</strong></td>
<td>800 linear feet</td>
</tr>
<tr>
<td><strong>Appl. Temperature Range</strong></td>
<td>20°F - 105°F</td>
</tr>
<tr>
<td><strong>VOC Content</strong></td>
<td>15 wt. %</td>
</tr>
<tr>
<td><strong>VOC Content (California)</strong></td>
<td>155 g/L</td>
</tr>
<tr>
<td><strong>VOC Compliant</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>

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

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 SqueakFeeGuarantee.com for complete details.
2. Builder Magazine 2002-2016 Brand Use Studies; #1 in OSB category.
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 yielding 38 linear feet. Coverage will vary based on bead size and weather conditions.
STRUCTURAL 1 RATED
Provides 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 and wall applications. Ideal for regions with heavy wind, rain, snow and ice.

UNMATCHED MOISTURE RESISTANCE
Designed for longer exposure during construction, backed by a 500-day weather resistance guarantee. Unlike traditional OSB and plywood, AdvanTech® sheathing is guaranteed to resist swelling, cupping and delamination.

HIGHER STRENGTH, STIFFNESS AND FASTENER HOLDING POWER
Unlike traditional OSB or plywood, AdvanTech® panels are built to a higher standard with an Evaluation Service Report^2 documenting above-code performance for strength, stiffness and fastener holding power. So you can count on panels to install flat and stay flat.

BACKED BY AN LIFETIME LIMITED WARRANTY^1
AdvanTech sheathing is backed by a lifetime limited warranty for added assurance both during and after construction.

ADVANTECH® ROOF AND WALL SHEATHING
Oriented strand board (OSB) and plywood simply can’t compare. What’s inside AdvanTech® panels makes all the difference: advanced resin technology resists 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. Protect your build with the lasting durability of AdvanTech® sheathing.

A DURABLE HOME STARTS WITH A STRONG, MOISTURE RESISTANT BASE.
**THE CLEAR LEADER IN STRENGTH AND STIFFNESS.**

### Design Bending Strength (FbS)

<table>
<thead>
<tr>
<th>Panel Grade</th>
<th>Panel Size</th>
<th>PS-2 Span Rating</th>
<th>Code Evaluation Report</th>
<th>Edge Profile</th>
<th>Panel Grade</th>
<th>Approx. Weight Per Panel</th>
<th>Panels Per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>4’ x 8’</td>
<td>32/16</td>
<td>ESR-1785</td>
<td>SE</td>
<td>Structural 1</td>
<td>54 lbs.</td>
<td>70 pcs.</td>
</tr>
<tr>
<td>5/8</td>
<td>4’ x 8’</td>
<td>40/20</td>
<td></td>
<td>T&amp;G, SE</td>
<td></td>
<td>67 lbs.</td>
<td>55 pcs.</td>
</tr>
<tr>
<td>23/32</td>
<td>4’ x 8’</td>
<td>48/24</td>
<td></td>
<td>SE</td>
<td></td>
<td>78 lbs.</td>
<td>45 pcs.</td>
</tr>
</tbody>
</table>

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

** 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.


4. 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 subflooring and 0.148 inch diameter nail for roof and wall sheathing calculations. American Wood Council ASD/LRFD.
With a unique foam-to-gel formula, NEW AdvanTech™ subfloor adhesive delivers a powerful panel-to-joist connection with a fast, easy application — even on wet or frozen wood.¹ And when you combine it with the moisture resistance, strength and fastener-holding power of AdvanTech® subfloor panels, you get a subfloor assembly backed by the industry’s only Squeak-Free Guarantee.² And that’s what makes AdvanTech® products the FLAT OUT BEST™ choice for a quiet, stiff floor.

See it in action at AdvanTechSFA.com.

¹Exceeds ASTM D3498. ²Limitations and restrictions apply. Guarantee for panel-to-joist connection on an AdvanTech™ Subfloor Assembly. Additional limitations and restrictions apply. See SqueakFreeGuarantee.com for details.
PEACE OF MIND FOR YOUR BUILD. PEACE AND QUIET FOR YOUR CLIENTS.

With over 20 years of proven performance to its name, AdvanTech® subflooring is a name builders trust to protect jobs against sanding delays. And now with NEW AdvanTech™ subfloor adhesive, you can help protect your job against squeaky floor callbacks and delays with a panel-to-joist connection so strong it’s backed by a Squeak-Free Guarantee¹ when used as part of an AdvanTech™ Subfloor Assembly.

And because we know you build for product performance from the jobsite to the homesite, we’ve launched a new resource for your custom home clients to learn more about why subfloors matter. After all, luxury you can see is pretty, but luxury you can’t see is quality.

Share CustomHomeResource.com with your clients to help share why quality building materials can matter just as much to overall feel of a home as high-end finishes resting on them.

To learn more about best practices for a squeak-free floor, see our CEU “Overcoming Floor Squeaks” linked on AdvanTechPerforms.com.

Visit AdvanTechQuiet.com

¹. Guarantee only applies to the panel-to-joist connection on assemblies using AdvanTech® panels and AdvanTech™ subfloor adhesive, with I-joists or trusses, and deformed fasteners, for one- or two-family homes. Limitations and restrictions apply. See SqueakFreeGuarantee.com for details.
VOTED #1 IN QUALITY BY BUILDERS LIKE YOU!

Give AdvanTech® panels a try today!
Visit AdvanTechPerforms.com for current rebate offers.

Visit AdvanTechPerforms.com to learn why AdvanTech® subflooring is the Flat Out Best™ for a quiet, stiff floor. 1.800.933.9220