

ADVANTECH® SUBFLOORING

MANUFACTURER

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BASIC USE AND APPLICATIONS

AdvanTech® subflooring is a high-performance engineered panel designed to replace plywood and commodity oriented strand board (OSB) floor sheathing. Fabricated in highly-controlled production facilities utilizing advanced resin technology, AdvanTech® subflooring exhibits higher strength, greater stability and enhanced moisture resistance. AdvanTech® subflooring far exceeds the code minimums representing other subfloor products, providing owners with a more stable floor and builders with a more reliable product that retains its qualities under environmental exposure during construction.

AdvanTech® subflooring is nailed or screwed to floor framing members; long edges are precision tongue-and-groove, and the panel surface is fully sanded. Using a polyurethane or solvent based subfloor adhesive is recommended for optimal performance. Panels are available in 5 performance categories for a wide range of conditions.

AVAILABLE SIZES AND RATINGS

AdvanTech® subflooring panels are available in nominal 4 by 8 foot* sheets in the following DOC PS 2 Sheathing span ratings and performance categories. All panels are Exposure 1 rated.

- 20 oc, 19/32" Performance Category – Structural 1
- 24 oc, 23/32" Performance Category – Structural 1
- 32 oc, 7/8" Performance Category – Structural 1
- 32 oc, 1" Performance Category – Structural 1
- 48 oc, 1-1/8" Performance Category – Structural 1

Third party independent compliance testing of AdvanTech® subflooring performed by Timberco, Inc. (TECO).

*Are face dimensions are approximately 47-1/2" x 95 7/8"



AdvanTech® Subflooring Benefits	
Excellent Design Strength	Provides a quality, stiff floor
Excellent Design Stiffness	Outperforms plywood and commodity OSB sheathing to minimize floor bounce and squeaks
Excellent Moisture Resistance	Minimizes swelling, warping, cupping, and delamination
Higher Density	Greater nail and screw holding power

GENERAL SUSTAINABLE DESIGN CONTRIBUTIONS

- Low-Emitting Material: No added urea formaldehyde or VOC constituents
- Sustainable Forestry Initiative Certified Wood: Harvested, transported, manufactured, and distributed utilizing sustainable practices
- Renewable Forest Resources: Composed of primarily young growth bio-based resources
- Regional Materials: Made in the United States at one of our four regional manufacturing facilities

POTENTIAL LEED CREDIT CONTRIBUTION

- Credit IEQ 4.4 Low-Emitting Materials, Composite Wood and Agrifiber: AdvanTech contains no added urea formaldehyde
- Credit MR 5.1 or 5.2 Regional Materials: Materials harvested, processed, and manufactured within 500 miles of project site.
- Credit MR 2.2 Environmentally Preferable Products – Local Production (LEED for Homes)

AdvanTech® Subflooring Physical Properties** Vs. OSB/Plywood		
Bending Stiffness, EI (lbf-in/ft)	AdvanTech: 383,800	OSB Ply: 300k/330k
Bending Strength, FbS (lbf-in/ft)	AdvanTech: 1,250	OSB Ply: 770
** For 23/32 in thick panel, primary strength axis. For design capacities, section properties, and equivalent specific gravity values of AdvanTech, refer to ICC-ES ESR-1785. For OSB and Plywood values, refer to 2012 APA Panel Design Specification.		

SUBSTRATE

Before beginning installation, verify framing is properly spaced and aligned to support panel edges. Install AdvanTech® subflooring in accordance with:

- AdvanTech® subflooring installation instructions
- ICC-ES ESR 1785
- Requirements of authorities having jurisdictions

Tongue and groove edges are self-spacing; panel ends should be spaced 1/8" (3 mm) apart. Space panel joints at expansions joints at spacing equal to spacing of structural supports.

INSTALLATION METHODS

AdvanTech® subflooring can be installed over wood or cold-formed metal floor framing. Install over wood using nail or screw fasteners. For metal framing applications, reference our Tech Tip *Installing AdvanTech® over Metal Framing*. Subfloor adhesive is recommended for all applications.

Fasteners: Install fasteners approved by applicable building code. Fasteners should penetrate wood members minimum 1 inch (25.4 mm). Install fasteners 3/8 inch (9.5 mm) to 1/2" (12.7 mm) from panel edges. Space fasteners 6-inches (152 mm) on-center on supported panel ends and 12-inches (305mm) on-center at intermediate support location. AdvanTech® subflooring panels have a printed fastening guide for 16-inch (406 mm), 19.2-inch (488 mm), and 24-inch (610 mm) on-center fastener locations on the panel surface.

Adhesives: Polyurethane or solvent-based subfloor adhesives conforming to APA AFG-01 or ASTM D3498.

For projects requiring low-VOC adhesives, consult adhesive manufacturer for compliant products.

Apply a single 1/4" inch (6 mm) bead on floor framing, and double bead on framing members supporting ends of two panels.

FINISHED FLOORING APPLICATIONS

Field-applied sealers or water repellents are not required and not recommended for use of AdvanTech® subflooring.

- Typical Residential Carpet and Pad: May be installed directly over AdvanTech® subflooring
- Commercial Carpet, VCT, Sheet Vinyl: Minimum 1/4 inch (6 mm) thick plywood underlayment per flooring manufacturer recommendations
- Hardwood: Apply #15 felt or equivalent per flooring manufacturer recommendations
- Ceramic Tile: Apply underlayment as required by ANSI A108. Install tile and underlayment in accordance with TCNA installation methods
- Gypsum Concrete Underlayment: Apply directly over primed AdvanTech® subflooring following underlayment manufacturer's instructions

STORAGE AND HANDLING

Store and handle products according to manufacturer's written recommendations. Support panel bundles off the ground. Cover stored panels with weatherproof protective material; allow sides of protective material to remain loose to assure adequate air circulation. In high moisture conditions, cut bundle banding to prevent edge damage to the panels.

AVAILABILITY

Huber Engineered Wood's AdvanTech® subflooring panels are manufactured at multiple locations in the U.S. and are available through distributors nationwide. Visit advantechperforms.com or contact Huber Engineered Woods for a retailer near you.

WARRANTY

AdvanTech® subflooring is guaranteed not to delaminate nor require sanding for 500 days after purchase in addition to a Limited Lifetime warranty against manufacturing defects. See the AdvanTech® subflooring Limited Warranty for full details.

NOTES AND LIMITATIONS

When a building's uninterrupted flooring length or width exceeds 80- feet, designers should incorporate expansion joints to accommodate the cumulative effect of incremental panel expansion. This is an industry recommendation and is not unique to AdvanTech® subflooring.

- Do not paint with water-based coatings such as latex paints
- Do not use water-sealers
- Do not use in permanent exterior applications
- Do not use salt-based ice melts

TECHNICAL SERVICE

Detailed information including specifications, product literature, test reports, installation instructions, and special applications is available through Huber Engineered Woods. Please visit advantechperforms.com or call 800.933.9220 Ext 2716 to speak to a technical representative.

AVAILABLE RESOURCES

Section 06 16 00 SHEATHING guide specification for AdvanTech® subflooring and sheathing products in CSI 3-part format is available at HuberWood.com.

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