

DESCRIPTION

BASIC USE AND APPLICATIONS

AdvanTech® flooring 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 flooring exhibits higher strength, greater stability, and enhanced moisture resistance. AdvanTech flooring 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 flooring is glued and nailed or glued and screwed to floor framing members; long edges are precision tongue-and-groove, and the panel surface is fully sanded. Panels are available in 5 performance categories for a wide range of conditions.

LIMITATIONS ON USE

When a building's uninterrupted floor 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.

AVAILABLE SIZES AND RATINGS

AdvanTech flooring panels are available in nominal 4 by 8 foot* sheets in the following DOC PS 2 Single-Floor span ratings and performance categories. All panels are Exposure 1.

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

Third party independent compliance testing of AdvanTech flooring by Timberco, Inc. (TECO).

*Actual face dimensions are apx. 47 1/2" x 95 7/8"



AdvanTech Benefits

Superior Design Strength	Provides a quality, stiff floor
Superior Design Stiffness	Outperforms plywood and commodity OSB sheathing to minimize floor bounce and squeaks
Superior Moisture Resistance	Minimizes swelling, warping, cupping, and delaminating
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 4 regional manufacturing facilities.

POTENTIAL LEED CREDIT CONTRIBUTIONS

- 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).

APPLICATION

SUBSTRATE

Before beginning installation, verify framing is properly spaced and aligned to continuously support panel edges.

Install AdvanTech flooring in accordance with:

- AdvanTech installation instructions
- ICC-ES ESR 1785 (23/32 only)
- Designer-of-Record, code official or authority having jurisdiction.

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

INSTALLATION METHODS

AdvanTech flooring can be installed over wood or cold-formed metal floor framing. Install over wood using nail or screw fasteners, and over metal with screw fasteners. Construction adhesive is recommended for all applications.

Fasteners: As 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 inch (12.7 mm) from panel edges. Space fasteners 6 inches (152 mm) on centers on supported panel ends and 12 inches (305 mm) on centers at intermediate support locations. AdvanTech flooring panels have a fastening guide for 16 inch (406 mm), 19.2 inch (488 mm), and 24 inch (610 mm) on center fastener locations printed 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. Apply a 1/8 inch (3 mm) bead along groove of panels prior to inserting tongue of subsequent panel.

FINISHED FLOOR APPLICATIONS

Field-applied sealers or water repellents are not required and not recommended for use over AdvanTech flooring.

- Typical Residential Carpet and Pad: May be installed directly over AdvanTech flooring.
- Commercial Carpet, VCT, and 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 AdvanTech flooring 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 panels.

AVAILABILITY

Huber Engineered Wood's AdvanTech flooring 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 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 warranty on advantechperforms.com for limitations and restrictions.

NOTES AND LIMITATIONS

- Do not paint with water-based coating such as latex paints.
- Do not use water-sealers.
- Do not use in permanent exterior applications.

TECHNICAL SERVICES

Detailed information including 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 flooring and Sheathing products in CSI 3-part format is available from Huber Engineered Woods.

AdvanTech Physical Properties* vs. OSB/Plywood

Bending Stiffness, EI (lbf-in ² /ft)	Advantech: 383,800	OSB/Ply: 300k/330k
Bending Strength, FbS (lbf-in/ft)	Advantech: 1,250	OSB/Ply: 770
*For 23/32 inch thick panel, primary strength axis. For design capacities, section properties, and equivalent specific gravity values, refer to AdvanTech ICC-ES ESR-1785.		

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