

THE PREMIUM-QUALITY ALTERNATIVE



Description

AdvanTech® flooring and sheathing are high performance structural panels specifically engineered to provide water resistance, strength, stiffness and consistent quality that is superior to competing oriented strand board (OSB) and plywood products.

Basic Uses

A premium-quality alternative to plywood and OSB, AdvanTech® flooring is used in single layer and subfloor applications. AdvanTech® sheathing is used for roof and wall sheathing, as well as subflooring in two-layer systems.

Composition & Materials

Huber Engineered Woods is committed to the responsible use of natural resources. AdvanTech engineered wood panels are produced from young, fast-growing trees for less waste and faster availability. All parts of the log are used during production. Leftover chips, bark and sawdust are used as fuel to reduce energy use during manufacturing. One of the main benefits of AdvanTech products is that unlike most OSB and plywood panels that utilize a phenol-formaldehyde (PF) based resin system, the primary resin system used in AdvanTech panels contains no formaldehyde.

Certification & Code Compliance

AdvanTech flooring and sheathing panels are manufactured in conformance with PS-2, Performance Standard for Wood-Based Structural-Use Panels. Design capacities of AdvanTech products are available in ICC ES ER-1785. AdvanTech panels bear the stamp of TECO, an approved inspection and testing agency. Panels certified to PS-2 and ESR-1785 are recognized in the model building codes, the International Residential Code, and the International Building Code. Panels may bear stamps certifying conformance to both PS-2 and CAN/CSA-0325. CSA-0325 is a panel performance standard maintained by the Canadian Standards Association. For additional information, go to advantechperforms.com.

AdvanTech flooring and sheathing panels, certified to be in conformance with requirements for U.S. Department of Housing and Urban Development (HUD-FHA) Use of Materials Bulletin #40C, bear the designation HUD-UM-40C within the stamp.

Flame Spread

AdvanTech flooring and sheathing panels are recognized as having a Class C (III) flame spread rating without need for test or label by HUD/ FHA Manual of Acceptance Practices, Section 405-8 to the Minimum Property Standards.

Storage

- Ship panels under tarp.
- Set bundles on three supports to keep off the ground.

- Outdoors, cover panels loosely with waterproof protective material.
- Anchor covers on the top of the stack, but keep away from sides and bottom to ensure good air circulation.
- When high moisture exists, cut banding on the stack to prevent edge damage.

Handling

- Avoid dropping panels on corners or edges.
- When using a forklift, put the stack on a pallet or supports to minimize damage from forks.

Exposure

As with all wood-based products, properly installed AdvanTech panels will not decay in service. Building code provisions establish minimum clearances from grade and ventilation requirements for crawl spaces and attics. Short-term exposure to moisture, as typical in normal construction delays, will not result in wood decay. AdvanTech panels should not be used in applications that will permanently expose the panels to the weather nor where moisture will be at elevated levels for extended periods of time. AdvanTech panels are not approved or certified for exterior exposure. As a panel classified as Exposure 1 under PS-2, AdvanTech panels are intended to resist the effects of moisture due to construction delays or other conditions of similar severity, but are not suitable for permanent exposure to the weather.

Installation

Refer to TECO (www.tecotested.com) and OSB Design and Construction Guides for general installation details. Additional installation requirements are in the following sections of this brochure.

**300 DAY
NO SANDING
GUARANTEE***

Payable up to twice the reasonable cost of sanding!



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SHEATHING INSTALLATION & RIM BOARD SPECIFICATIONS



Cutouts

Cutouts for plumbing and electrical components should be oversized by at least 1/4" to avoid a forced fit.

Finishing

Interior panels can be left natural, stained, varnished or painted. AdvanTech sheathing is not recommended, approved or certified for exterior exposure. Options for painting include urethane coatings, epoxy coatings and oil-based primer followed by an acrylic latex paint.

Roof Sheathing

AdvanTech sheathing panels are typically installed over two or more spans, staggered with the long dimension perpendicular to the roof framing. End joints must lie over supports. Screen surface should be installed up to maximize skid-resistance. Follow OSHA safety requirements for proper roof construction practices. All panels must be gapped 1/8" at time of installation.

Designers may specify sheathing panels for parallel-to-support applications.

Fastening: Roof Sheathing

- Use minimum 6d common nails for panels 1/2" or less.
- Use minimum 8d common nails for panels 5/8" to 1".
- Apply fasteners a maximum of 3/8" from panel edges.
- Space fasteners minimum of 6" o.c. along supported edges, 12" o.c. at intermediate supports.
- Ensure that all corners are securely fastened.
- For 48" o.c., all fastener spacing should be 6" o.c.
- Check local code or construction documents for more restrictive fastening requirements.

Wall Sheathing

AdvanTech sheathing panels may be installed parallel or perpendicular to framing members spaced up to 24" o.c. If perpendicular, block horizontal joints in panels used as bracing. All panel ends and edges must be gapped 1/8" at time of installation. Cover with approved finished siding, following manufacturer's recommendations.

Fastening: Wall Sheathing

- Use minimum 6d common nails for panels 1/2" or less.
- Use minimum 8d common nails for panels 5/8" to 1".
- Apply fasteners 3/8" from panel edges.
- Space fasteners minimum of 6" o.c. along supported edges, 12" o.c. at intermediate supports. Check local code or construction documents for more restrictive fastening requirements.
- Ensure that all corners are securely fastened.
- Do not glue wall sheathing products.

Sheathing: Subfloor Application

When AdvanTech sheathing panels are used in a two-layer floor system, a minimum 1/4" underlayment should be applied. Panels should be installed over two or more spans with the long dimension perpendicular to the supports. All panel edges and ends should be spaced 1/8" at time of installation. When installing lightweight concrete, ceramic tile or 3/4" wood-strip flooring, follow the manufacturer's instructions for subfloor preparation.

Fastening: Sheathing as Subfloor

- Use minimum 6d common nails for panels 1/2" or less.
- Use minimum 8d common nails for panels 5/8" to 1".
- Apply fasteners 3/8" from panel edges.
- Space fasteners minimum of 6" o.c. along supported edges, 8" o.c. at intermediate supports.
- Ensure that all corners are securely fastened.
- For 48" o.c., all fastener spacing should be 6" o.c.
- Approved adhesives should be used.

| Maximum Support Spacing ¹ (sheathing as subfloor) | | |
|---|--------------------------------|----------------------------|
| PANEL SPAN RATING | NOMINAL PANEL THICKNESS (inch) | MAXIMUM SPAN (inches, c-c) |
| 32/16 | 1/2 | 16 |
| 40/20 | 5/8 | 20 |

¹ Panels should be covered with either: minimum of 1/4" thick underlayment; 1-1/2" of approved cellular, light-weight concrete or gypsum concrete; edges shall be supported by blocking.

Rim Board

AdvanTech® rim board is a structural framing member designed to transfer lateral loads, support wall loads and tie floor joists together. AdvanTech rim board must be continuously supported along the bottom edge and not used to span openings. It may not be used as other structural framing elements such as joists, rafters, headers and ledgers.

For more information on AdvanTech rim board, call 800.933.9220 or go to advantechperforms.com.

| Rim Board Specifications | | |
|--------------------------|-----------------------|--------------------|
| AVAILABLE DEPTHS | AVAILABLE THICKNESSES | AVAILABLE LENGTHS* |
| 9-1/2" | 1-1/8" | 16 feet |
| 11-7/8" | | |
| 14" | | |
| 16" | | |

*Specialty lengths are available on request. Inquiries will be handled on an individual basis.

| Allowable Uniform Roof Loads ¹ for AdvanTech Panels, loads in PSF, normal duration of load | | | | | | | | | | | |
|---|--------------------------------|---|----------------------|--|--------|--------|--------|--------|--------|--------|--------|
| PANEL SPAN RATING | NOMINAL PANEL THICKNESS (inch) | MAXIMUM SPAN ² (inches, c-c) | | PRIMARY AXIS PERPENDICULAR TO SUPPORTS | | | | | | | |
| | | With Edge Support ³ | Without Edge Support | Span, in. c-c | | | | | | | |
| | | | | 12 | 16 | 19.2 | 24 | 30 | 32 | 36 | 40 |
| 20 oc | 19/32 | 32 | 32 | 300+ | 300+ | 300+ | 154 | 76 | 62 | 54 | 39 |
| 24 oc | 23/32 | 48 | 36 | 300+ | 300+ | 300+ | 244 | 120 | 98 | 86 | 62 |
| Str. 1 32/16 | 1/2 | 32 | 28 | 300+ | 300+ | 180 | 87 | 43 | 35 | 31 | 22 |
| Str. 1 40/20 | 5/8 | 40 | 32 | 300+ | 300+ | 300+ | 167 | 82 | 67 | 58 | 42 |
| | | CONTINUOUS SPANS | | 3-Span | 3-Span | 3-Span | 3-Span | 3-Span | 3-Span | 2-Span | 2-Span |

1. Load-Span Tables for AdvanTech panels, HUB 160. See advantechperforms.com for additional load-span tables. Total load deflection limited to L/240. 2. 2006 International Residential Code, Table R503.2.1.1(1). 3. Tongue and groove edges, panel edge clips (one between each support, except two between supports 48 inches on center), lumber blocking or other.