

ICC-ES Evaluation Report

ESR-1074

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 50 00—Structural Plastics

REPORT HOLDER:

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EVALUATION SUBJECT:

AZEK® TRIMBOARDS, AZEK® TRIMBOARDS FRONTIER SERIES, AZEK® SHEETS, AZEK® BEADBOARD, AND AZEK® CORNERBOARDS

1.0 EVALUATION SCOPE
Compliance with the following codes:

- 2006 *International Building Code*® (2006 IBC)
- 2006 *International Residential Code*® (2006 IRC)
- 2003 *International Building Code*® (2003 IBC)
- 2003 *International Residential Code*® (2003 IRC)
- BOCA® *National Building Code*/1999 (BNBC)
- 1999 *Standard Building Code*® (SBC)
- 1997 *Uniform Building Code*™ (UBC)
- 1998 *International One- and Two-Family Dwelling Code*® (IOTFDC)

Properties evaluated:

- Weather resistance
- Termite resistance
- Surface burning characteristics
- Structural—negative-transverse wind loads on soffits

2.0 USES

AZEK® Trimboards, AZEK® Millwork, AZEK® Trimboards Frontier Series, AZEK® Sheets, AZEK® Beadboard, and AZEK® Cornerboards are used as nonload-bearing exterior trim.

3.0 DESCRIPTION

AZEK Trimboards, AZEK® Millwork, AZEK® Trimboards Frontier Series, AZEK® Sheets, AZEK® Beadboard, and AZEK® Cornerboards are rigid cellular PVC solid cross

sections installed as corner boards, soffits, fascias, column wraps, door pilasters, frieze boards, nonload-bearing rake boards, architectural millwork, door trim, and window trim.

The material is expanded rigid poly-vinyl-chloride material with a small-cell micro structure and a density of 0.55 g/cm³. AZEK® Trimboards are supplied with a smooth surface. AZEK® Millwork is machined from AZEK Trimboards using common woodworking equipment. AZEK Trimboards Frontier Series are supplied with a textured surface. AZEK Trimboards and AZEK Trimboards Frontier Series are available in nominal widths of 4 inches to 16 inches and nominal thicknesses of 5/8, 4/4, and 5/4 inches. AZEK Sheets are available in 4-foot (1.2 m) widths and in lengths of 8, 10, 12, 18 and 20 feet (2.4, 3.0, 3.6, 5.4 and 6.0 m), with actual thicknesses of 1/2, 5/8, 3/4 and 1 inch (12.7, 15.0, 19.1 and 25.4 mm). AZEK Beadboards are available in two sizes, 1/2 inch thick by 5 1/4 inches wide by 18 feet long (12.7 mm by 133.4 mm by 5.4 m) and 5/8 inch thick by 4 inches wide by 18 feet long (15.9 mm by 102 mm by 5.4 m). AZEK Cornerboards are available in a nominal thickness of 5/4 inches and nominal 4-inch and 6-inch outside corner sizes.

The AZEK Trimboards, at a maximum nominal thickness of 5/4 inches, have a flame-spread index (FSI) of less than 25 when tested in accordance with ASTM E 84.

4.0 INSTALLATION
4.1 General:

AZEK Trimboards, AZEK® Millwork, AZEK® Trimboards Frontier Series, AZEK® Sheets, AZEK® Beadboard, and AZEK® Cornerboards shall be installed in accordance with the manufacturer's published installation instructions and this report.

The manufacturer's published installation instructions and this report shall be strictly adhered to, and a copy of the instructions shall be available at all times on the jobsite during installation. The instructions within this report shall govern if there are any conflicts between the manufacturer's published installation instructions and this report.

4.2 Fasteners:

Fasteners such as nails and screws shall be stainless steel or hot-dipped galvanized. Fasteners shall be approved box nails or finish wood screws and shall be designed for wood trim and wood siding with a thinner shank. Nails shall have blunt points and full-rounded heads. The fasteners shall be long enough to penetrate the solid wood substrate a minimum of 1 1/2 inches (38.1 mm). The fasteners located at board ends shall be placed no more than 2 inches (50.8 mm) from the end of the board.

4.3 Wind Load Assembly—Soffits Using AZEK® Trimboards:

AZEK® Trimboards measuring a minimum of 12 inches by 48 inches (304.8 mm by 1219.2 mm) shall be installed on minimum 2-by-4 wood framing SPF stud grade (G = 0.42) spaced 16 inches (406.4 mm) on center. The AZEK® Trimboards are placed with the long direction perpendicular to the wood framing and are fastened to each of the wood members with two 3¹/₄-inch-long (82.55 mm), 16d box nails, located 1 inch (25.4 mm) from seam/edge of panels. AZEK® Trimboards nominally 1 inch (25.4 mm) and 1¹/₄ inches (31.8 mm) thick shall have a maximum allowable design load of 60 psf (2880 N/m²) suction, negative wind load.

5.0 CONDITIONS OF USE

The AZEK® Trimboards, AZEK® Millwork, AZEK® Trimboards Frontier Series, AZEK® Sheets, AZEK® Beadboard, and AZEK® Cornerboards described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 This evaluation report and the manufacturer's published installation instructions, when required by the code official, shall be submitted at the time of permit application.
- 5.2 The trim shall be manufactured, identified and installed in accordance with this report and the Vycom Corporation instructions.
- 5.3 The product shall be limited to the following construction types:

5.3.1 Nonload-bearing exterior trim on buildings of combustible non-fire-resistance-rated construction (Type VB of the IBC [BNBC Type 5B; SBC Type VI Unprotected; UBC Type VN]).

5.3.2 Architectural trim on buildings of Type I, II, III and IV construction under the IBC (BNBC Types 3 and 4; SBC Types I, II and IV; UBC Types I, II, III, IV) that do not exceed three stories or 40 feet (12 192 mm) in height above grade [15 feet (4572 mm) in the UBC], backed by noncombustible material.

5.3.3 All construction types permitted under the IRC and IOTFDC.

5.4 The product shall be installed over solid backing material, such as approved exterior sheathing covered with an approved water-resistant barrier or approved exterior wall covering.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Rigid Cellular PVC Nonload-Bearing Exterior Trim (AC227), dated December 2004 (editorially revised August 2008).

7.0 IDENTIFICATION

Each package of AZEK® Trimboards, AZEK® Millwork, AZEK® Trimboards Frontier Series, AZEK® Sheets, AZEK® Beadboard, and AZEK® Cornerboards described in this report shall be labeled with the Vycom Corporation name, address and telephone number; the product trade name; and the evaluation report number (ESR-1074).