



Code Compliance Research Report CCRR-0219

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DIVISION: 06 Structural Plastics
Section: 06 53 13 Solid Plastic Decking

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REPORT SUBJECT:

CertainTeed EverNew® Vinyl Decking

1.0 SCOPE OF EVALUATION

1.1. Building Codes:

2015 International Building Code (IBC)
2015 International Residential Code (IRC)

2012 International Building Code (IRC)
2012 International Residential Code (IRC)

2014 Florida Building Code (FBC)
(Excluding High Velocity Hurricane Zone)

1.2. Properties

Material Properties

Structural Performance

Durability

Surface Burning

Decay Resistance

2.0 USES

2.1. *CertainTeed EverNew® Vinyl Decking* deck boards are intended for use as a walking surface on exterior decks, balconies, porches, and walkways, including stairs as further defined herein.

2.2. The deck boards identified in this report may be used in One- and Two-Family Dwellings regulated by the IRC and other construction types regulated by the IBC in accordance with IBC Section 1406.3 as follows:

2.2.1. Construction Type IIB, IIIB & VB per IBC §1406.3 and Table 601 (No fire resistance rating required for floors)

2.2.2. Construction Type IIIA, IV & VA per IBC §1406.3, Exception 3 (Sprinkler protection required)

3.0 DESCRIPTION

3.1. Materials and Processes – *CertainTeed EverNew® Vinyl Decking* deck boards are co-extruded (capped) polyvinyl chloride (PVC) produced in the following colors: White, Almond and Grey.

3.2. *CertainTeed EverNew® Vinyl Decking* deck boards have a hollow rectangular cross-section with nominal dimensions of 1-1/2" thick by 5-1/2" wide. Each deck board is formed with two longitudinal grooves to accept fasteners and fill pieces. See Figures 1-2.

3.3. Walking Surface - *CertainTeed EverNew® Vinyl Decking* deck boards are finished with an embossed ribbed pattern.

4.0 PERFORMANCE CHARACTERISTICS

4.1. *CertainTeed EverNew® Vinyl Decking* deck boards are rated for a uniform live load of 100 lbs/ft.² when installed on support framing spaced at 24".

4.2. *CertainTeed EverNew® Vinyl Decking* used as stair treads are rated for the code-prescribed concentrated load equal to 300 lb when installed with a maximum 10" support span. Deck boards used as stair treads shall be installed in a minimum two-span condition.

4.3. *CertainTeed EverNew® Vinyl Decking* deck boards have a maximum wind uplift resistance rating of 426 lb/ft.² when face-fastened with #8 x 2-1/2" deck screws to support framing spaced 24" on center.

4.4. Materials used have a flame spread index that does not exceed 200 when tested according to ASTM E 84.

4.5. Materials are deemed equivalent to preservative treated or naturally durable wood for resistance to weathering effects, attack from termites and fungus decay.

4.6. Structural performance has been demonstrated for a temperature range from -20°F to 125°F.

5.0 INSTALLATION

Installation shall be in accordance with the manufacturer's installation instructions and this report. Where differences occur between this report and the manufacturer's installation instructions, this report shall govern.



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5.1. Decking can be installed in full runs or uniformly staggered on the deck support structure. For all but stairs, install deck plans on substructures built on 24" centers.

5.2. Face fastening of the *CertainTeed EverNew® Vinyl Decking* shall be with two #8 x 2-1/2" long deck screws. Fasteners are installed on every joist at 24.0 span. The installation of butting boards requires a double jointed seam.

6.0 SUPPORTING EVIDENCE

6.1. Manufacturer's drawings and installation instructions.

6.2. Reports of testing in accordance with ICC-ES AC174, Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails), revised December 2014.

6.3. The reports of testing and engineering analysis demonstrating compliance with the performance requirements of ASTM D 7032-08, Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails).

6.4. Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report.

7.0 CONDITIONS OF USE

The *CertainTeed EverNew® Vinyl Decking* deck board applications identified in this report are deemed to comply with the intent of the provisions of the referenced building codes subject to the following conditions:

7.1. The deck boards identified in this report have no residential use limitations.

7.2. Deck boards placed at an angle other than 90 degrees to the supporting joist will require support framing at a reduced spacing such that the span of the deck board does not exceed 24".

7.3. The wind uplift resistance rating recognized in this report is based on attachment to treated Southern Pine framing (specific gravity, $G=0.55$). Installation on wood framing with a lesser specific gravity may result in a lower wind uplift rating.

7.4. Compatibility of the supporting construction materials with all metal fasteners are subject to approval by the code official.

7.5. All products are manufactured in Buffalo, New York by CertainTeed Corporation, in accordance with the manufacturer's approved quality control system with inspections by Architectural Testing (IAS AA-676).

8.0 IDENTIFICATION

The *CertainTeed EverNew® Vinyl Decking* deck boards described in this Research Report are identified by a marking bearing the report holder's name (CertainTeed Corporation), the Intertek Mark, the Code Compliance Research Report number (CCRR-0219) and the following statement: "See CCRR-0219 at <https://whdirectory.intertek.com> for uses and performance levels."

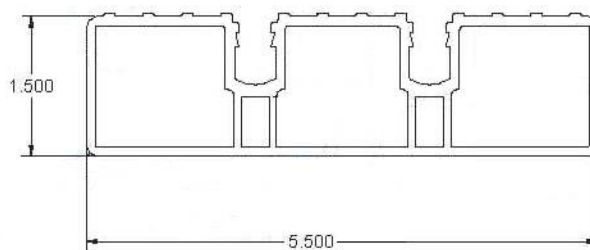
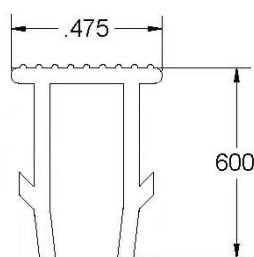
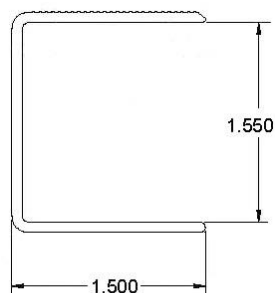


9.0 CODE COMPLIANCE RESEARCH REPORT USE

9.1. Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

9.2. Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Architectural Testing.

9.3. Reference to the Intertek website address at <https://whdirectory.intertek.com> is recommended to ascertain the current version and status of this report. Where required by the building official, engineering calculations and details shall be provided. The calculations shall verify that the anchorage complies with the building code for the type of framing and condition of the supporting construction.

**1.5 X 5.5 Deck Plank****FIGURE 1 – CERTAINTEED EVERNEW® VINYL DECKING PROFILE****Deck Fill Piece****FIGURE 2: CERTAINTEED EVERNEW® VINYL DECKING FILL PIECE****Deck End Cover****FIGURE 3: CERTAINTEED EVERNEW® VINYL DECKING END CAP COVER PIECE**

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