



Building Product Evaluation Report 0137

UFP Ventures Deck Boards and Stair Treads UFP Ventures II, Inc.

Initial Acceptance: July 12, 2022

Expiration: September 12, 2024

Revision: September 12, 2023

TYPE OF ACCEPTANCE

Product Material – Wood and Plastics

CSI Specification Division: 06 50 00 (Structural Plastic) and 06 53 00 (Plastic Decking)

MANUFACTURER IDENTIFICATION:

UFP Ventures II, Inc.

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EVALUATION REPORT SUBJECT:

Deck Boards and Stair Treads for Exterior Applications
Installation on construction complying with the International Residential Code®
(IRC®) or with the International Building Code® (IBC®).

DESCRIPTION OF BUILDING COMPONENTS:

A. Deck Boards

UFP Ventures deck boards are wood thermoplastic composite lumber (WTCL) products consisting of high-density polyethylene, hardwood flour filler plus additives and color. The product specifications are listed in the approved quality control manual. The UFP Ventures deck boards are manufactured in several colors by the co-extrusion process and have capping on three sides of the boards.

1. **Deck Boards: Solid and Lobes**

- (a) The **Trailhead** hardwood deck board is rectangular in shape, has rounded edges, is completely solid and has four (4) lobes on the bottom of the board. This deck board has a proprietary plastic cap on three sides of the deck board. See attached drawing in Table 1 Section A.
- (b) The **Tropics** hardwood deck board is rectangular in shape, has rounded edges, is completely solid and has three (3) lobes on the bottom of the board. This deck board has a proprietary plastic cap three sides of the deck board. This deck board is also named **Tradewinds**. See attached drawing in Table 1 Section A.

2. **Deck Boards: Solid with Side Grooves and Lobes**

- (a) The **Trailhead-Slotted** hardwood deck board is rectangular in shape, has rounded edges, is completely solid, has a groove on each side of the board, and has four (4) lobes on the bottom of the board. This deck board has a proprietary plastic cap on the top of the deck board. See attached drawing in Table 1 Section B.
- (b) The **Tropics Slotted** hardwood deck board is rectangular in shape, has rounded edges, is completely solid, has a groove on each side of the board, and has three (3) lobes on the bottom of the board. This deck board has a proprietary plastic cap on three sides of the deck board. This deck board is also named **Tradewinds-Slotted**. See attached drawing in Table 1 Section B.

**APPLICABLE CODES:**

- 2018 and 2021 International Building Code (IBC)
- 2018 and 2021 International Residential Code (IRC)

APPLICABLE CHARACTERISTICS REVIEWED:

B. Deck Board(s) – See Section A - 1 thru 2 above for list of all the names and descriptions of the deck boards reviewed.

1. Deck Board: Structural Performance

- (a) The deck boards have been reviewed for uniform load, maximum span and deck board direction when installed on support framing members. See attached Table 1.
- (b) The deck boards have been reviewed for wind uplift resistance and have an uplift load rating when installed as indicated in Table 1 in this Report.
- (c) The deck boards used as stair treads meet the code prescribed load requirements including the concentrated load of 300 lbf when installed in accordance with the manufacturers' installation instructions and Table 1 in this Report.

2. Deck Board: Fastening

- (a) The deck boards must be fastened to the structural supporting members in accordance with the manufacturer's installation instructions and Table 1 of this Report. When manufacturer's installation instructions differ from this Report, this Report governs.
- (b) Deck boards with side grooves and lobes can be installed with the Trex Hideaway Hidden Fastener, Stowaway Hidden Fastener, or the VersaClip Hidden Fastener. These fasteners must be installed in accordance with manufacturer's installation instructions and Table 1 of this Report. When manufacturer's installation instructions differ from this Report, this Report governs.
- (c) The deck board attachment to rim and floor joist is outlined in the manufacturer's installation instructions and Table 1 of this Report. When the manufacturer's installation instructions differ from this Report, this Report governs.
- (d) When deck boards are used as stair treads, they must be installed in accordance with the manufacturer's installation instructions and Table 1 in this Report. When the manufacturer's installation instructions differ from this Report, this Report governs.

3. Deck Board Durability: Temperature

- (a) The deck boards have been reviewed for the temperature range of -20 to 125 °F (-29 to 52 °C).

4. Deck Board Flame Spread Index:

- (a) UFP Ventures deck boards meet the requirements for Class C classification for the Flame Spread and Smoke Development Index when tested in accordance with the ASTM E84 *Standard Test Method for Surface Burning Characteristics of Building Materials*.

5. Deck Board Decay Resistance:

- (a) The deck boards reviewed for this Report have been deemed comparable to naturally durable wood for resistance to fungal decay.

6. Deck Board Termite Resistance:

- (a) The deck boards reviewed for this Report have been deemed comparable to preservative-treated wood for resistance to termite attack.

7. UV Testing:

- (a) The UV testing was conducted, and an appropriate adjustment factor was applied, in accordance with ASTM D7032 *Standard for Establishing Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails)*.

APPLICABLE USES:

The UFP Ventures deck boards evaluated in this Report are limited to exterior applications for balconies, porches, stair treads, walking surfaces, and decks.



LIMITATIONS OF ACCEPTANCE:

The UFP Ventures deck boards described in this Report comply with those codes listed in the Applicable Codes section above and are subject to the following conditions:

1. The deck boards are limited to the “Applicable Uses” indicated above.
2. Installation of deck boards must comply with this Report, the manufacturer’s published installation instructions (<https://www.deckorators.com/en/Resources/Installation-Instructions>), and the applicable codes. When the deck board manufacturer’s installation instructions differ from this Report, this Report governs.
3. The fasteners described in this Report must be used for the installation of the UFP Ventures deck boards only. Compatibility of the fasteners to treated supporting construction has not been evaluated.
4. The UFP Ventures deck boards indicated in this Report must be fastened to the supporting construction as indicated in the manufacturer’s installation manual and outlined in this Report. When the deck board manufacturer’s fastening instructions differ from this Report, this Report governs.
5. When required, the structural deck board layout must be designed by a design professional and submitted to the authority having jurisdiction for final acceptance.
6. The UFP Ventures deck boards have not been evaluated as a member of a fire-resistance-rated assembly.
7. UFP Ventures II has a Third-Party inspection program provided by PFS TECO (AA 652).
8. Deck boards used as stair treads require a minimum of two-span installation conditions.
9. The structural design for code compliance of supporting members for the deck boards has not been evaluated and is not part of this Report.

DOCUMENTATION SUBMITTED:

Submitted data was provided in accordance with PFS TECO *Certification and Inspection Policy: Deck Boards and Guardrails* (Quality control manual, Specifications, Manufacturer’s installation instructions, Test data, and Descriptive information). The products have been evaluated in accordance with ASTM D7032.

PRODUCT IDENTIFICATION:

The UFP Ventures deck boards evaluated in this Report must be identified with a label, stamp, or laser imprint on every deck board. The information that is required is as follows: UFP Ventures II, Inc., product identification, compliance to ASTM D7032 including the maximum deck board span (inches on center spacing of supports) and loading (psf), the PFS TECO Building Product Evaluation Report number (BPER 0137), and PFS Certification Mark for use in the United States (see image below). Deck boards without this information are not covered under this Report.



Table 1: Span Table and Fastening Schedule for Deck Boards

Deck Board ID	Deck Board Profile	Maximum Span Rating (in/psf) with Deck Board Orientation to Support Joists		Fastening Schedule and Uplift Values ¹	Maximum Stair Tread Span ² (in)
		90 °	45 °		
A. Solid Deck Board					
Trailhead		16/100	12/100	145 psf with Starborn Pro-Plug screw system	8 in
Tropics, Tradewinds		16/100	12/100	212 lbf per #8 x 3-in Deck Screw	-n/a-
B. Solid Deck Board with Lobes on Bottom and Side Grooves					
Trailhead – Slotted		16/100	12/100	106 psf - Trex (Fig. 1), 97 psf - Stowaway (Fig. 2), 83 psf – VersaClip (Fig. 3)	8 in
Tropics – Slotted, Tradewinds - Slotted		16/100	12/100	106 psf - Trex (Fig. 1), 97 psf - Stowaway (Fig. 2), 83 psf – VersaClip (Fig. 3)	-n/a-

for SI conversion: 1 in = 25.4 mm, 1 psf = 47.9 Pa, 1 lbf = 0.0044 kN

¹ Deck boards installed with screws must be attached to each joist with two #8 x 3-in.-long deck screws with a minimum end/edge distance of 1-1/2 in., unless predrilled. Deck boards installed with hidden fasteners (Trex Hideaway, Stowaway, or VersaClip) or Pro Plug screw system must be attached to each joist with a fastener as per manufacturer's installation instructions.

² Deck boards installed as stair treads must be supported over three or more supports.

The joist to which the deck boards are attached must have a minimum specific gravity of 0.50 or better (such as Southern Pine) or the fastening must be designed.

No duration of load increase is allowed for the uplift values noted in Table 1 in this Report.



Figure 1: Trex Hideaway



Figure 2: Stowaway



Figure 3: VersaClip