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DIVISION: 06 00 00 – WOOD, PLASTICS AND COMPOSITES

Section: 06 50 00 – Structural Plastics

Section: 06 53 00 – Plastic Decking

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REPORT SUBJECT:

Deck Lok™ System

1.0 SCOPE OF EVALUATION

This research report addresses compliance with the following Codes:

- 2012 International Building Code (IBC)
- 2012 International Residential Code (IRC)
- 2014 Florida Building Code (FBC)
excluding High Velocity Hurricane Zone (HVHZ)

Deck Lok™ deck boards have been evaluated for the following properties:

- Structural Performance
- Durability
- Surface Burning

2.0 USES

Deck Lok™ System is a deck board intended for use as a walking surface on exterior decks, balconies, porches, and walkways, including stairs as further defined herein.

3.0 DESCRIPTION

3.1. Materials and Processes

3.1.1. Deck Lok™ Systems are co-extruded, hollow, PVC deck boards with a PVC cap and are produced in four colors: Latte, Gray, Tan and Stone.

3.2. Profiles

3.2.1. Deck Lok™ deck boards have a hollow cross-section with nominal dimensions of 1.5" tall and 5.875"

wide. The boards interlock together utilizing a tongue-and-groove joint. See Figure 1.

3.2.2. Walking Surface – Deck Lok™ deck boards are finished with a simulated wood-grain pattern.

4.0 PERFORMANCE CHARACTERISTICS

4.1. Deck Lok™ deck boards are rated for a uniform live load of 100 lb/ft² when installed on support framing spaced at 24 inches on-center.

4.2. Deck Lok™ deck boards used as stair treads are rated for the code-prescribed concentrated load equal to 300 lb when installed with a maximum span indicated in Table 1. Deck boards used as stair treads shall be installed in a minimum two-span condition.

4.3. Materials used in the deck boards have a flame spread index not greater than 200, when tested in accordance with ASTM E84, as required by ICC-ES AC174.

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

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

5.0 INSTALLATION

Deck Lok™ deck boards must be installed in accordance with the manufacturer's published installation instructions, the applicable Code and this Research Report. The manufacturer's published installation instructions and this Research Report must be strictly adhered to, and a copy of the instructions must be available on the jobsite during installation.

5.1. Deck Lok™ deck boards are fastened with one #8 x 2" stainless steel wood screw at every wood joist. See Table 1 and Figure 2 for installation details.

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 February 2014.

6.3. Reports of testing and engineering evaluation 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. Quality control manual in accordance with ICC-ES AC10, *Acceptance Criteria for Quality Documentation* dated June 2014.

7.0 CONDITION OF USE

The *Deck Lok™* deck boards described in this Research Report complies with, or is a suitable alternative to, what is specified in those Codes listed in Sections 1.0 and 2.0 of this report, subject to the following conditions:

7.1. Installation must comply with this Research Report, the manufacturer's published installation instructions and the applicable Code. In the event of a conflict between the manufacturer's instructions and this report, this report governs.

7.2. The deck boards identified in this report are limited to use in Type III-B and V-B (5B) construction in the IBC and dwellings regulated by the IRC.

7.3. 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 the Table 1 span ratings.

7.4. 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.

7.5. 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.

7.6. Compatibility of the supporting construction materials with all fasteners, metal post mount components, and other hardware components is subject to approval by the code official.

7.7. Only those types of fasteners and fastening methods described in this report have been evaluated for the installation of the *Deck Lok™ Systems*; other methods of attachment are outside the scope of this report.

7.8. The *Deck Lok™* is manufactured in Calgary, Alberta, Canada by Westech Building Products in accordance with the manufacturer's approved quality control system with inspections by Intertek.

8.0 IDENTIFICATION

The *Deck Lok™* deck boards described in this Research Report are identified by a marking bearing the report holder's name (Westech Building Products), and the Code Compliance Research Report number (CCRR-0200) and the following statement: "See CCRR-0200 at <https://whdirectory.intertek.com> for uses and performance levels."

CODE
COMPLIANCE



Intertek
CCRR-0200

This Code Compliance Research Report ("Report") is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Report. Only the Client is authorized to permit copying or distribution of this Report and then only in its entirety, and the Client shall not use the Report in a misleading manner. Client further agrees and understands that reliance upon the Report is limited to the representations made therein. The Report is not an endorsement or recommendation for use of the subject and/or product described herein. This Report is not the Intertek Listing Report covering the subject product and utilized for Intertek Certification and this Report does not represent authorization for the use of any Intertek certification marks. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

9.0 CODE COMPLIANCE RESEARCH REPORT

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: whdirectory.intertek.com is recommended to ascertain the current version and status of this report.

Table 1 – Span and Uplift Resistance Ratings

Deck Board	Maximum Span / Allowable Load Rating ⁽¹⁾	Maximum Stair Tread Span ⁽²⁾	Fastener Description	Wind Uplift Resistance ⁽³⁾
Deck Lok™ System	24" Span 100 psf Load	12" Span	One #8 x 2" Exterior Stainless Steel Screw. See Figure 2.	83 psf

- (1) Span/Load rating is the maximum span in inches and the maximum allowable live load in pounds per square feet (psf).
- (2) Stair tread span is based on a continuous deck board over two or more equal spans (3 supports).
- (3) Wind uplift resistance is based on installation as described in Section 5.0. Values have been adjusted for wind load duration and end use. No further adjustments shall be made.

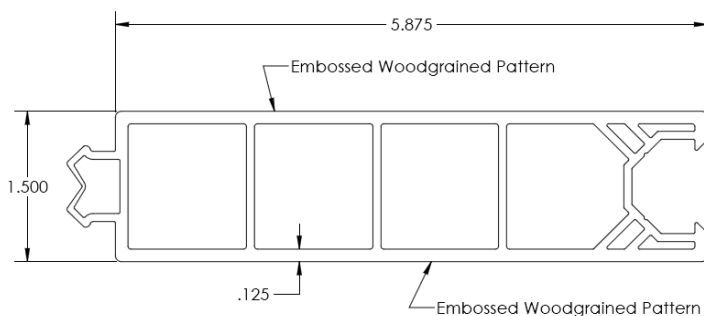
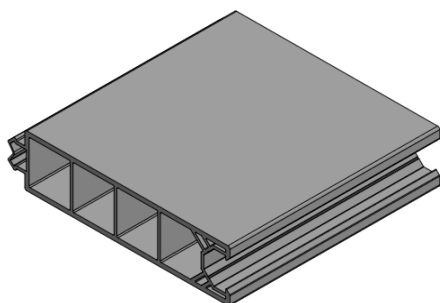
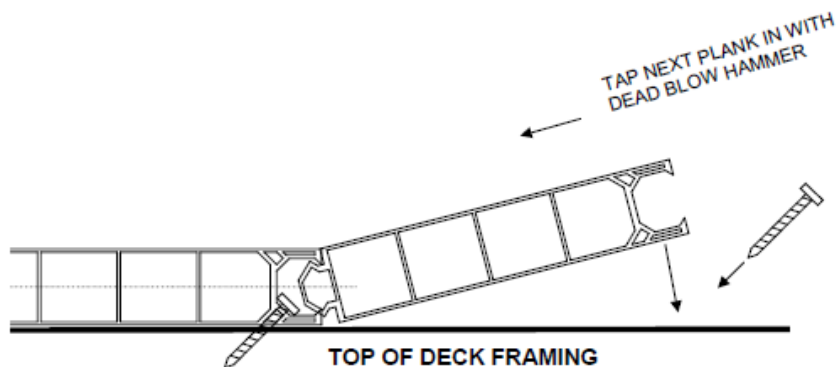
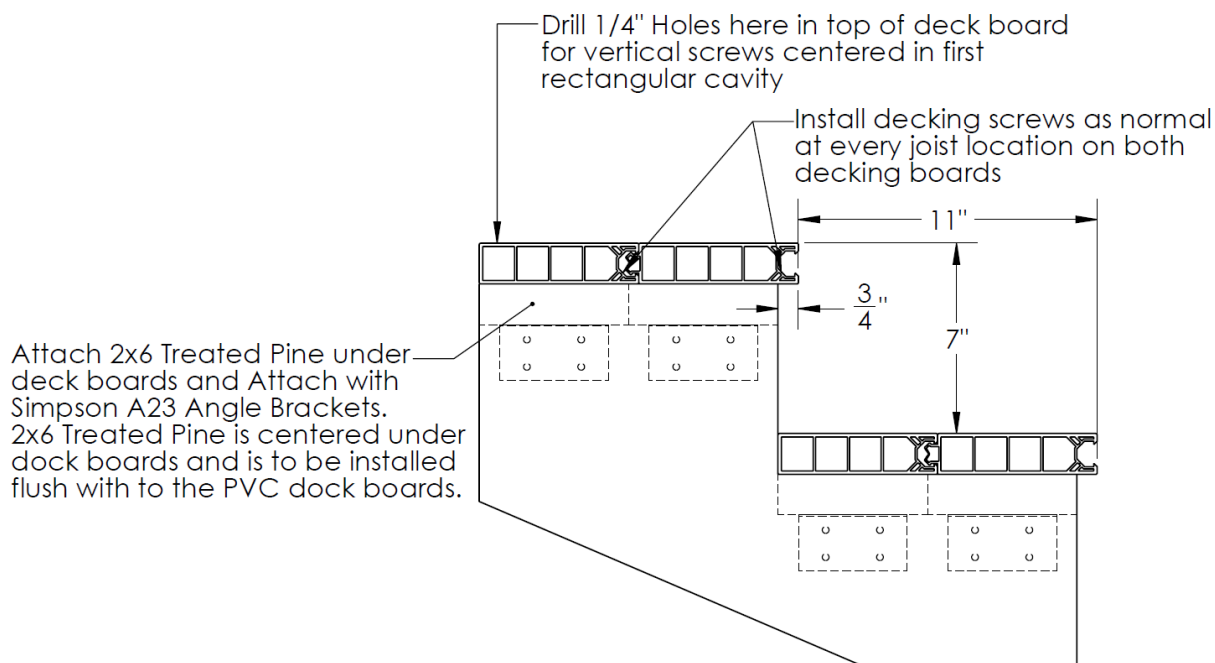


Figure 1 – Deck Lok™ Profile



Deck Installation



Stair Tread Installation

Figure 2 – Deck Lok™ Installation Details