



**EVALUATION SUBJECT:  
AERATIS PORCH FLOORING**

**REPORT HOLDER:**  
**Building Products International**  
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**Chandler, Arizona 85248**  
**(480) 600-7328**  
[www.aeratis.com](http://www.aeratis.com)

**CSI Division: 06—WOOD, PLASTICS AND COMPOSITES**  
**CSI Section: 06 05 00—Structural Plastics**  
**CSI Section: 06 53 00—Plastic Decking**

## 1.0 SCOPE OF EVALUATION

### 1.1 Compliance to the following codes & regulations:

- 2012 International Building Code® (IBC)
- 2012 International Residential Code® (IRC)

### 1.2 Evaluated in accordance with:

- AC-174 Deck Board Span Ratings and Guardrail Systems, Approved January 2012.

### 1.3 Properties assessed:

- Structural
- Durability
- Surface Burning Characteristics

## 2.0 PRODUCT USE

The Aeratis Porch Flooring is used as exterior deck boards for balconies, porches and decks of residential buildings of Type V-B construction under the IBC and dwellings constructed in accordance with the IRC.

## 3.0 PRODUCT DESCRIPTION

**3.1 General:** Aeratis Porch Flooring are tongue-and-groove deck boards manufactured from a polyvinyl-chloride/wood composite material. The boards have a textured surface simulating wood grain and are light brown in color. The Aeratis Porch Flooring boards are nominally 3 inches wide and 0.9 inch thick (137 by 22.9 mm). A dimensioned drawing of the deck board cross-section is shown in Figure 1 of this report.

When subjected to weathering, termite attack (including Formosan termites), and other decay (fungi) elements, the deck board material is equivalent to preservative-treated or naturally durable wood for termite resistance. The deck boards may be used as an alternative to preservative-treated or naturally durable lumber on exterior decks, porches or balconies, as applicable.

The deck boards may be used at service temperatures between -20°F and 125°F (-29°C and 52°C).

**3.2 Surface Burning Characteristics:** Aeratis Porch Flooring has a flame-spread index no greater than 200 when tested in accordance with ASTM E84.

## 4.0 DESIGN AND INSTALLATION

The deck boards shall be installed in accordance with the manufacturer's published installation instructions, and in accordance with this evaluation report and the applicable code. If there are any conflicts between the manufacturer's published installation instructions and this report, the more restrictive governs. A copy of the manufacturer's published installation instructions shall be available at the job site during installation.

**4.2 Deck Boards:** The deck boards are limited to a maximum allowable uniform load of 100 lbf/ft<sup>2</sup> (4.79 kPa). The deck boards installed on supporting construction shall have a maximum span of 16 inches (406 mm) on-center. The ends of the deck boards shall have adequate bearing support where butt joints occur.

**4.3 Fasteners:** The Aeratis Porch Flooring shall be fastened at each supporting wood member with 2-inch-long (51 mm) GRK #8 stainless steel screws. The allowable pull-through capacity of the screw head is 88 pounds (392 N). The allowable withdrawal capacity of the screws in lumber having a minimum specific gravity of 0.50 is 101 pounds (449 N).

## 5.0 LIMITATIONS

The Aeratis Porch Flooring exterior deck board described in this report is a suitable alternative to what is specified in those codes listed in Section 1.0 of this report, and subject to the following conditions:

**5.1** The Aeratis Porch Flooring is limited to exterior use as deck boards for balconies, porches and decks of residential buildings of Type V-B construction under the IBC and dwellings constructed in accordance with the IRC.

**5.2** The use of the Aeratis Porch Flooring as stair treads is outside the scope of this report.

**5.3** The use of the Aeratis Porch Flooring as a component of a fire-resistance-rated assembly is outside the scope of this report.

**5.4** The 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.



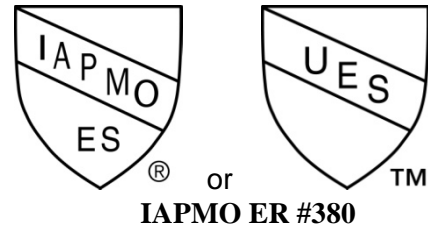
5.5 Where required by the code official, engineering calculations and construction documents consistent with this report shall be submitted to the code official for approval. The calculations shall verify that the supporting construction complies with the applicable building code requirements and is adequate to resist the design loads. The documents shall contain details of the attachment to the supporting structure consistent with the requirements of this evaluation report. The documents shall be prepared by a registered design professional where required by the statutes of the jurisdiction where the project is constructed.

### 6.0 SUBSTANTIATING DATA

Data in accordance with the ICC-ES Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (AC174), dated January 2012; manufacturer’s descriptive literature and installation instructions; reports of tests and calculations. Testing was performed by laboratories in compliance with ISO/IEC 17025.

### 7.0 IDENTIFICATION

The Aeratis Porch Flooring described in this report is identified by a packaging label bearing the Building Products International name and address, the product name, the span rating for use as a deck board, and the evaluation report number (ER-380). Labeling includes the statement: “For Use in One- and Two-Family Dwellings Only.”



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For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email at [info@uniform-es.org](mailto:info@uniform-es.org)

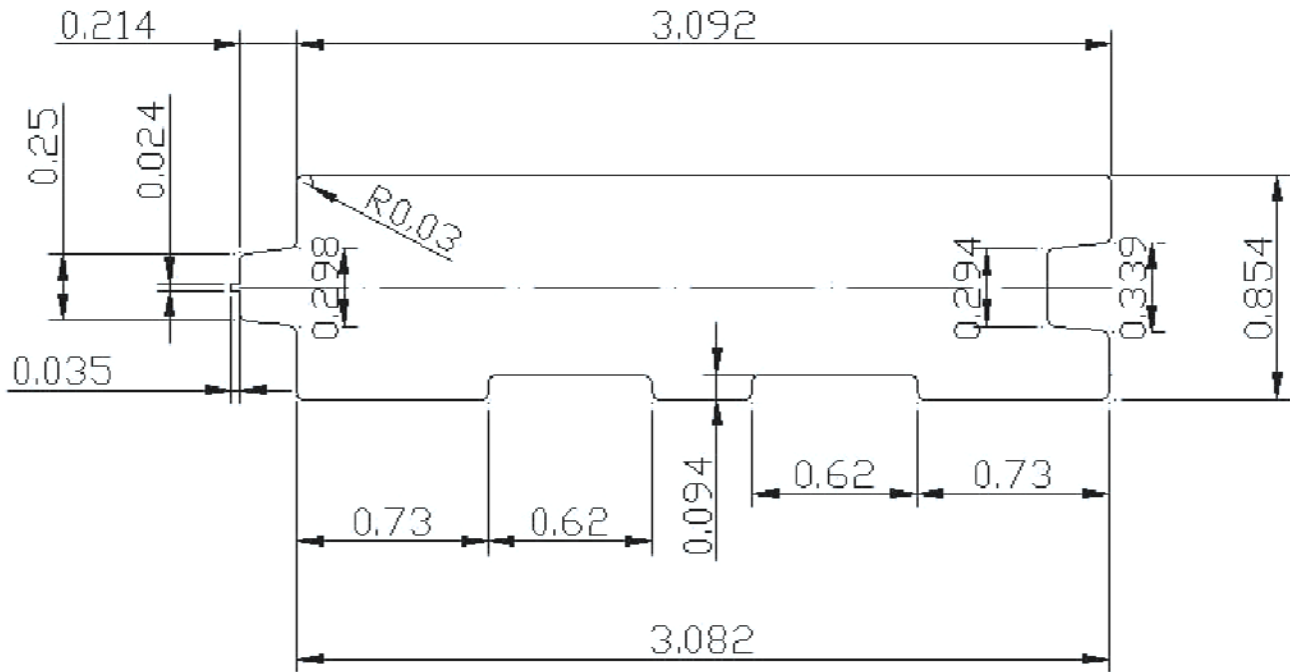


Figure No. 1 – Cross Section of Aeratis Porch Flooring