



BUILDING PRODUCT INTERNATIONAL

1 East Oakwood Hills Drive
Chandler, Arizona 85248
(480) 600-7328
www.aeratis.com

AERATIS PORCH FLOORING

CSI Section:
06 53 00 Plastic Decking

1.0 RECOGNITION

Aeratis Porch Flooring was evaluated for use in exterior locations as deck board for decks, balconies and porches in accordance with IBC Section 2304.7 and IRC Section 507.

The deck board has been evaluated for strength, durability and surface burning characteristics for compliance with the following codes and regulations:

- 2012, 2009 and 2006 International Building Code® (IBC)
- 2012, 2009 and 2006 International Residential Code® (IRC)
- ICC-ES Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails) (AC174), approved January 2012, editorially revised December 2014
- ASTM D7032, Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails)

2.0 LIMITATIONS

Use of the Aeratis Porch Flooring described in this report is subject to the following limitations:

2.1 Aeratis Porch Flooring is limited to residential use in Type V-B construction under the IBC and structures constructed to the IRC.

2.2 “Compatibility of the supporting structural materials with all fasteners, metal post mount components and other hardware components is subject to the approval of the code official.” [AC174]

2.3 The design and construction of the supporting structure such as joists and columns is beyond the scope of recognition of this report. Plans and calculations shall be provided the code official for approval.

2.4 Aeratis Porch Flooring has not been evaluated for use as stair treads.

2.5 Guards shall be provided where required in accordance with IBC Section 1013 and IRC Section R312 and comply with all applicable code provisions.

2.6 Aeratis Porch Flooring has not been evaluated as part of a fire-resistance-rated assembly and is beyond the scope of recognition of this report.

2.7 Adjustment factors outlined in the ANSI/AWC NDS and applicable codes do not apply to the allowable capacity and maximum spans for the Aeratis Porch Flooring.

3.0 PRODUCT USE INSTRUCTIONS

3.1 Aeratis Porch Flooring shall be installed in accordance with this report, the referenced codes and Building Product International’s published installation instructions. In the case of a conflict between this report, the published installation instructions and the code requirements, the more restrictive requirements shall govern. The installation instructions and this report shall be at the jobsite during construction for use by installers and for quality assurance.

3.2 The allowable span and load ratings of the decking are applicable at a range of temperatures between -20°F (-29°C) and 125°F (52°C).

3.3 Aeratis Porch Flooring has a span rating as indicated in Table 1 of this report. The span rating is shown for the decking applied perpendicular to the supports.

Table 1 – Span Rating

Deck Board Dimensions (inches)	0.854 x 3.082
Maximum Span (inches) (center to center of support)	16
Allowable Load (psf)	100

SI: 1 inch = 25.4 mm, 1 psf = 47.9 Pa

3.4 The GRK #8 x 2-inch (51 mm) stainless steel screw has been evaluated for use in fastening the Aeratis Porch Flooring to the supporting construction. The screw shall be applied at each support. The attributes of the screws are shown in Table 2 of this report. The allowable withdrawal strength of the screw is based on minimum Specific Gravity of 0.50.

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.





Table 2 – GRK #8 x 2-inch Screw Attributes

Allowable Pull-Through Loading ¹	88 lbs.
Allowable Withdrawal Load ²	100 psf

SI: 1 inch = 25.4 mm, 1 psf = 47.9 Pa

Notes:

1. The allowable pull-through loading is based on the capacity of the deck board material only.
2. The allowable withdrawal value is based on the capacity of the assembly composed of the deck boards fastened to the framing member.

“Only those types of fasteners and fastening methods described in this section have been evaluated for the installation of the Aeratis Porch Flooring; other methods of attachment are outside the scope of this report.” [AC174]

4.0 PRODUCT DESCRIPTION

4.1 Product information: Aeratis Porch Flooring is a solid extruded tongue and groove deck board that has a thickness of approximately 7/8 inch (22 mm) and a width of approximately 3 1/8 inches (79 mm). Figure No. 1 of this report provide illustrations.

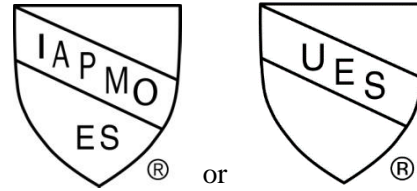
4.2 Material information: The Aeratis Porch Flooring is produced from a wood and polyvinyl chloride composite. The finished color is light-brown.

4.3 Aeratis Porch Flooring has been found to be equivalent to pressure treated or naturally durable wood for durability, fungal decay resistance and termite resistance (including Formosan termites).

4.4 In testing based on ASTM E84 for surface burning characteristics, Aeratis Porch Flooring has a flame-spread index no greater than 200.

5.0 IDENTIFICATION

A label shall be affixed on at least one of the following: product, packaging, installation instructions or descriptive literature. The label shall include the Building Products International name or trademark, model name, the IAPMO Uniform ES Mark of Conformity and the Evaluation Report Number (ER-380) to identify the products recognized in this report. A die-stamp label may also substitute for the label. Either Mark of Conformity may be used as shown below:



IAPMO ER-380

6.0 SUBSTANTIATING DATA

6.1 Data in accordance with ICC-ES Acceptance Criteria for Deck Board Span Ratings and Guardrail Systems (Guards and Handrails) (AC174), approved January 2012, editorially revised December 2014.

6.2 Data based on the required testing to ASTM D7032, Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails)

7.0 STATEMENT OF RECOGNITION

This report describes the results of research carried out by the IAPMO Uniform Evaluation Service on Building Product International’s Aeratis Porch Flooring to assess its conformance to the codes and standards listed in Section 1.0 and services as documentation of the product certification.

Brian Gerber, P.E., S.E.
Vice President, Technical Operations
Uniform Evaluation Service

Richard Beck, PE, CBO, MCP
Vice President, Uniform Evaluation Service

GP Russ Chaney
CEO, The IAPMO Group

For additional information about this evaluation report please visit www.uniform-es.org or email at info@uniform-es.org

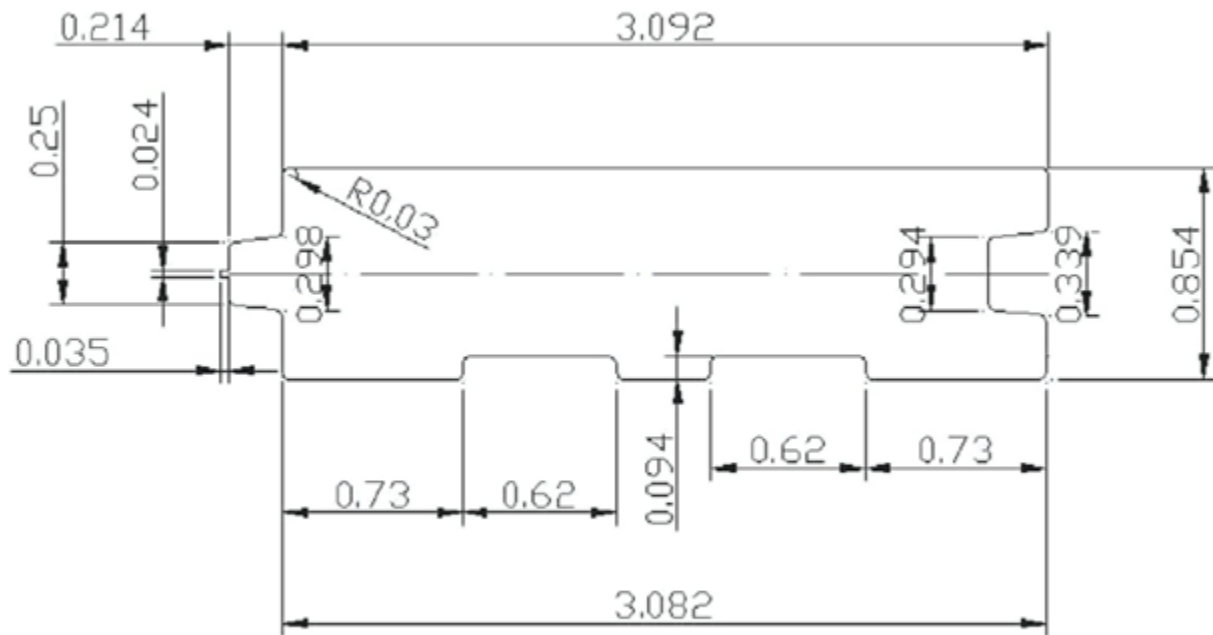


Figure No. 1 – Cross Section of Aeratis Porch Flooring