



BUILDING PRODUCTS INTERNATIONAL

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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 boards 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 building 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 to the building 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 Products 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 job site during construction for use by installers and 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 provides illustrations.

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

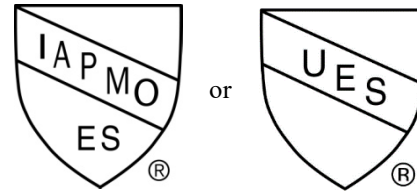
4.3 Aeratis Porch Flooring has been found to be equivalent to pressure-treated or naturally durable wood for durability, fungal decay resistance, and termite resistance (including Formosan termites).

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, 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 IAPMO Uniform ES Mark of Conformity may also be used as shown:



IAPMO UES 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)

6.3 Test reports are from laboratories in compliance with ISO/IEC 17025.

7.0 STATEMENT OF RECOGNITION

This report describes the results of research completed by the IAPMO Uniform Evaluation Service on Building Products 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.

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

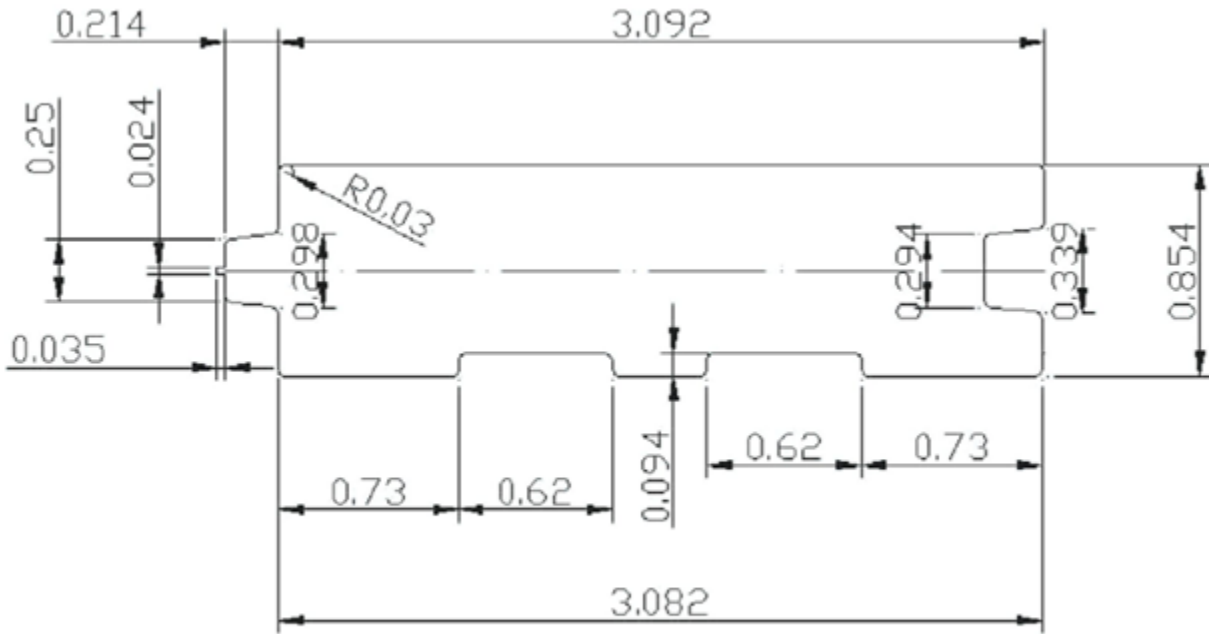


Figure No. 1 – Cross Section of Aeratis Porch Flooring