

**Pei Evaluation Service®** is an accredited ISO Standard 17065 Product Certifier, accredited by the IAS. This **Product Evaluation Report** represents a product that **Pei ES** has Evaluated. This product has a Product Evaluation Service Agreement & Follow-up Inspection Service Agreement. This **Product Evaluation Report** in no way implies warranty for this product or relieves **Fiber Composites, LLC** of their liabilities for this product. This **PER** is an official document if it is within one year of the initial or re-approval date.

**Initial Approval**  
February, 2018

**Re-Approved**

See all **Pei ES** Listings at: [www.p-e-i.com](http://www.p-e-i.com)

**Report Owner**  
**Fiber Composites, LLC**  
181 Random Drive  
New London, NC 28127

**Approved Manufacturing Locations**  
**Fiber Commercial Technologies, LLC**  
241 Mohr Drive  
Mankato, MN 56001

**Product**  
**Fiberon® Relax Deck Boards**

**Evaluation Report Information**  
Fiber Composites Contact Information:  
**1-800-573-8841 or [info@fiberondecking.com](mailto:info@fiberondecking.com)**

**General Details**

**Fiberon® Relax Deck Boards** are covered under the scope of this **Product Evaluation Report**. **Fiber Composites, LLC** has a Product Evaluation Service Agreement with **Pei Evaluation Service® (Pei ES)** and a Follow-up Inspection Service Agreement with **Progressive Engineering Inc. (Pei)**. The approved manufacturing location shown on this **PER** has an approved Quality Control Manual and is audited quarterly by **Pei**.

**Product Description**

**Fiberon® Relax Deck Boards** are manufactured in a solid rectangular cross-section using a proprietary blend of fused synthetic fibers and binder. **Fiber Composites, LLC** uses post-consumer carpet as the main source of synthetic fibers in this product. The final product is manufactured in lengths of 8-ft, 12-ft, and 16-ft with a 5.3-inch width and 0.90-inch thickness.

**Building Code & Standard Compliance**

<b>2012 / 2015 International Residential Code®</b>	<b>2012 / 2015 International Building Code®</b>
Section R507.3	Section 2612

**ASTM D7032** - Standard Specification for Establishing Performance Ratings for Wood, Plastic Composite Deck Boards and Guardrail Systems (Guards or Rails)

**ASTM E84** - Test Methods for Surface Burning Characteristics of Building Materials

Coated deck board = Flame Spread Index of 150 and a Smoke Development Index of 700

Uncoated deck board = Flame Spread Index of 115 and a Smoke Development Index of 850

**General Product Use**

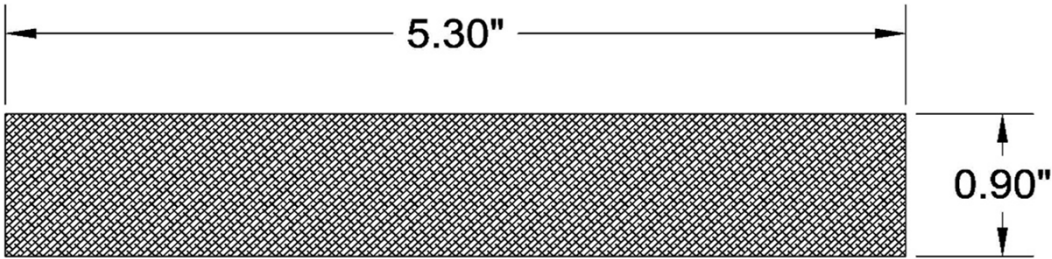
1. All construction, wood or steel framing, beams, joists, stringers, and associated connections needed to support **Fiberon® Relax Deck Boards** are outside the scope of this **PER**. All construction must follow applicable codes and are subject to approval by the building official.
2. **Fiberon® Relax Deck Boards** shall be installed in accordance with the **Fiberon® Relax Decking** Installation Instructions.
3. Deck boards are intended for exterior applications on structures regulated by the 2012 and 2015 IRC or Type VB construction in accordance with the 2012 and 2015 IBC. In cases where sprinkler protection is extended into the decking area, deck boards may also be installed on structures of Type III and IV construction in accordance with 2012 and 2015 IBC Section 1406.3.
4. Surface fasteners shall be installed at a 90-deg angle to the decking surface.
5. Specialized surface fasteners are required when decking is installed over steel joists.
6. Approved deck board fastening methods are shown in Table 1 of this **PER**. Alternative fastening methods do not fall into the scope of this **PER** and shall be subject to approval by the building official.

**Table 1 - Deck Board Description & Span Ratings**

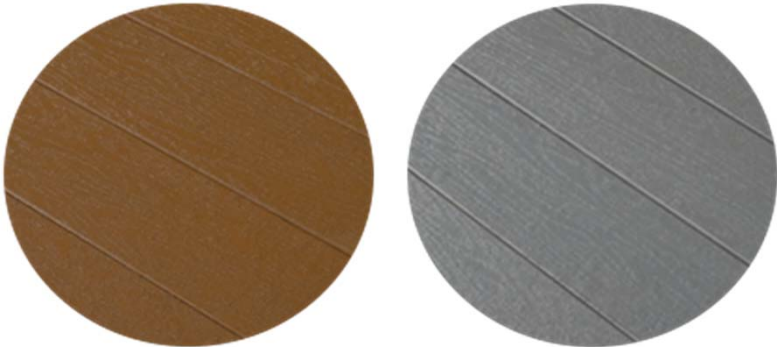
Deck Board <sup>1</sup>	Approved Colors <sup>2</sup>	Material/ Process	Fastener System <sup>3,4,5</sup>	Span (in)	Stair Tread Span <sup>6</sup> (in)	Load Rating (psf)
Fiberon® Relax	Barnwood Brown	Fused Synthetic Fibers (post-consumer carpet)	Two (2) #9 x 2-1/2" Grip-Rite Composite Deck Screws II at each end and joist support	16	12	100
	Front Porch Gray					

**Notes:**

1. Refer to Figure 1 for deck board cross section
2. Approved colors are shown in Figure 2
3. Refer to Figures 3, 4, and 5 for a typical composite deck screws and nail profile
4. Alternative fastener - #8 x 2-1/2-in long GRK RT Composite Trim Head Deck Screw
5. Alternative fastener - Senco 8d 2-3/8-in long Ring Shank Nail
6. A minimum two-span condition is required when deck boards are installed for a stair tread application



**Figure 1 - Fiberon® Relax Deck Board Cross-Section**



**Barnwood Brown                      Front Porch Gray**

**Figure 2 - Fiberon® Relax Approved Colors**



**Figure 3 - Grip-Rite Composite Deck Screw II**



**Figure 4 - GRK RT Composite Trim Head Deck Screw**



**Figure 5 - Senco 8d Ring Shank Nail**

### Product Labeling

Each **Fiberon® Relax Deck Board** shipment that is covered by this **PER** must have a label attached with at least the following information:

1. [Fiber Composites, LLC](#) Name and Address
2. Product Name
3. Plant Identifier and Date Code
4. This **PER** Number and *Pei Evaluation Service®* Logo
5. Allowable Load and Maximum Allowable Span (Indicate Compliance with ASTM D7032)

### Acceptable Evaluation Marks



### Product Documentation

A Product Evaluation Service Agreement between *Pei Evaluation Service®* and [Fiber Composites, LLC](#).

A Follow-up Inspection Service Agreement between [Progressive Engineering Inc.](#) and [Fiber Composites, LLC](#).

[Fiber Commercial Technologies, LLC](#) - Quality Control Manual - Dated: 8/17/2017

[Fiber Composites, LLC](#) Relax Decking 2017 Installation Instructions FIB-0374-LIT - Dated: 10/2017

[Fiber Composites, LLC](#) Decking 2017 Installation Instructions FIB-0354-LIT - Dated: 12/2016

A *Pei* Test Report No. 2017-6049 - ASTM D7032-15 - Deck Board Performance Testing on Fiberon Relax Decking - Dated: 10/25/2017, revised on 2/23/2018.

Test Report No. H2665.01-121-24 - ASTM E84-16 - Standard Test Method for Surface Burning Characteristics of Building Materials on Relax Decking - Dated: 7/25/2017

Test Report No. 16708.01-121-24 - ASTM E84-18a - Standard Test Method for Surface Burning Characteristics of Building Materials on Relax Decking - Dated: 9/12/2018