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

Approved Manufacturing Locations
Fiber Composites, LLC
181 Random Drive
New London, NC 28127

Fiber Composites, LLC
420 W Franklin Rd
Meridian, ID 83642

Evaluation Report Information
Fiber Composites Contact Information:
1-800-573-8841 or info@fiberondecking.com

General Details
This report covers the Fiberon Deck Boards and Grooved Deck Boards. The plant locations listed above have an approved Q.C. Manual to manufacture the product. Fiber Composites, LLC has a Product Evaluation Service Agreement with Pei Evaluation Service® (Pei ES) / Follow-up Inspection Service Agreement with Progressive Engineering Inc. (Pei). The plant locations listed above shall be audited quarterly by Pei.

Product Description
Fiberon Deck Boards are manufactured in a variety of cross-sections, colors, and styles as described in Table 1 of this PER. Cross-sections range from a solid rectangular shape to solid shapes with two to five arches on the bottom side. Refer to Figure 1 through 15 for approved section profiles and colors. Fiberon Deck Boards are comprised of polyethylene (PE) and wood fiber in most cases [Exception: Fiberon Paramount® is co-extruded cellular Polyvinyl Chloride (PVC)].

Fiberon Grooved Deck Boards are manufactured in a variety of cross-sections, colors, and styles as described in Table 1 of this PER. Cross-sections are similar to that of the standard deck boards with the exception of a longitudinal groove along each side of the board. This groove is milled after the extrusion process and utilized for a hidden fastener installation system (Exception: Fiberon Paramount extrudes the groove directly into the profile). Refer to Figures 1 through 15 for approved section profiles and colors. Fiberon Grooved Deck Boards are comprised of polyethylene (PE) and wood fiber [Exception: Fiberon Paramount® is co-extruded cellular Polyvinyl Chloride (PVC)].

General Product Use
1. Fiberon Deck Boards and Fiberon Grooved Deck Boards shall be installed in accordance with the Fiberon Decking Installation Instructions.
2. Specialized surface fasteners are required when decking is installed over steel joists. Phantom Hidden Fasteners may not be used.
3. All construction, wood or steel framing, beams, joist, stringers and associated connections needed to support Fiberon Deck Boards and Grooved Deck Boards are outside the scope of this PER. All construction shall follow applicable codes and are subject to approval by the building official.
4. Approved deck board fastening methods are shown in Table 2 and Table 3 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.
5. Deck boards are intended for exterior use applications on structures regulated by the 2009, 2012, 2015 & 2018 IRC or Type VB construction in accordance with the 2009, 2012, 2015 & 2018 IBC. Deck boards may be used on balconies and similar projections on building of Type III, IV & V construction where fire sprinkler protection is extended into those areas in accordance with 2009, 2012, 2015 IBC 1406.3, Exception 3 or 2018 IBC 705.2.3.1, Exception 3.
6. Surface fasteners shall be installed at a 90-degree angle to the decking surface.

Code Compliance

<table>
<thead>
<tr>
<th>International Residential Code®</th>
<th>International Building Code®</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009 - Section 317.4</td>
<td>2009 - Section 104.11</td>
</tr>
<tr>
<td>2012 - Section 507.3</td>
<td>2012 - Section 104.11</td>
</tr>
<tr>
<td>2015 - Section 507.3</td>
<td>2015 - Section 2612</td>
</tr>
<tr>
<td>2018 - Section 507.2.2</td>
<td>2018 - Section 2612</td>
</tr>
</tbody>
</table>

See all Pei ES Listings at: www.p-e-i.com
Standard Compliance


ASTM E84 - Test Methods for Surface Burning Characteristics of Building Materials [Flame Spread Index not exceeding 200]

AWPA Standard E1 - Standard Method for Laboratory Evaluation to Determine Resistance to Subterranean Termites [Equivalent (or better) performance to preservative treated or naturally durable wood for resistance to termite attack]

AWPA Standard E10 - Standard Method for Testing Wood Preservatives by Laboratory Soil-Block Cultures [Equivalent (or better) performance to preservative treated or naturally durable wood for resistive to fungus decay]


Code Considerations

2016 California Green Building Standard Code "CALGreen" Title 24, Part 11

CALGreen Section A5.406.1.1 Reduced Maintenance. Fiberon Decking requires no finishing at installation and no finishing required for product maintenance.

2015 ICC 700 National Green Building Standard

Section 602.1.6 Termite-resistance materials. Fiberon Decking has been tested to AWPA Standard E1-13 Section 601.7 Prefinished Materials. Fiberon Decking requires no finishing at installation and no finishing required for product maintenance.

Decisions on compliance of Fiberon Decking to 2016 CALGreen and 2015 ICC 700 National Green Building standard are the responsibility of the building designer/professional. Fiberon Decking is just one product in the completed structure and there may be other or specific requirements that need to be considered.

Table 1 - Fiberon Deck Boards & Grooved Deck Boards Description Summary

<table>
<thead>
<tr>
<th>Deck Board¹</th>
<th>Grooved Availability (Yes or No)</th>
<th>Approved Colors³</th>
<th>Material/Process²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good Life™ &amp; Good Life™ Tropics</td>
<td>Yes</td>
<td>Beach House, Bungalow, Cabin, Cottage, Tuscan Villa, Villa</td>
<td>Coextruded with a PE/wood core and HDPE capstock on three sides (No capstock on bottom)</td>
</tr>
<tr>
<td>Sanctuary®</td>
<td>Yes</td>
<td>Espresso, Earl Grey, Jatoba, Latte</td>
<td>Coextruded with a PE/wood core and HDPE capstock on three sides (No capstock on bottom)</td>
</tr>
<tr>
<td>ProTect®, ProTect Advantage®, ProTect Advantage FR</td>
<td>Yes</td>
<td>Gray Birch, Chestnut, Western Cedar</td>
<td>Coextruded with a PE/wood core and HDPE capstock on three sides (No capstock on bottom)</td>
</tr>
<tr>
<td>Horizon®</td>
<td>Yes</td>
<td>Greystone, Ipe, Rosewood, Tudor Brown, Castle Gray, Burnt Umber</td>
<td>Coextruded with a PE/wood core and HDPE capstock on all four sides.</td>
</tr>
<tr>
<td>Horizon Symmetry®</td>
<td>Yes</td>
<td>Warm Sienna, Cinnabar, Graphite</td>
<td></td>
</tr>
<tr>
<td>Fiberon® ArmorGuard®</td>
<td>Yes</td>
<td>Nantucket Gray, Brazilian Walnut, Coastal Cedar, Seaside Gray</td>
<td>Coextruded with a PE/wood core and HDPE capstock on three sides (No capstock on bottom)</td>
</tr>
<tr>
<td>Veranda Composite</td>
<td>No</td>
<td>Brown, Gray</td>
<td>Coextruded with a PE/wood core and HDPE capstock on three sides (No capstock on bottom)</td>
</tr>
<tr>
<td>Paramount® PVC</td>
<td>Yes</td>
<td>Brownstone, Flagstone, Fossil, Mineral, Sandstone</td>
<td>Coextruded PolyVinyl Chloride (PVC)</td>
</tr>
</tbody>
</table>

Notes:
1. Deck board cross-sections are provided in Figure 1, 3, 5, 7, 10, 12, and 14.
3. Approved colors are shown in Figure 2, 4, 6, 8, 9, 11, 13, and 15.
### Table 2 - Fiberon Deck Boards Span & Wind Uplift Ratings

<table>
<thead>
<tr>
<th>Deck Board1</th>
<th>Fastener System2</th>
<th>Span (in)</th>
<th>Stair Tread Span3 (in)</th>
<th>Load Rating (psf)</th>
<th>Allowable Wind Uplift5 (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good Life™ &amp; Good Life™ Tropics</td>
<td>Two (2) #9 x 2-1/2&quot; SplitStop™ Titan III Composite Screws at each end and joist support.</td>
<td>16</td>
<td>7</td>
<td>100</td>
<td>300</td>
</tr>
<tr>
<td>ProTect®</td>
<td>Two (2) #10 x 2-1/2&quot; SplitStop Titan III Composite Screws at each end and joist support.</td>
<td>16</td>
<td>8</td>
<td>100</td>
<td>375</td>
</tr>
<tr>
<td>Sanctuary®</td>
<td>Two (2) #10 x 2-1/2&quot; SplitStop Titan III Composite Screws at each end and joist support.</td>
<td>16</td>
<td>8</td>
<td>100</td>
<td>375</td>
</tr>
<tr>
<td>ProTect Advantage® ProTect Advantage FR</td>
<td>Two (2) #10 x 2-1/2&quot; SplitStop Titan III Composite Screws at each end and joist support.</td>
<td>16</td>
<td>8</td>
<td>100</td>
<td>375</td>
</tr>
<tr>
<td>Horizon® Horizon Symmetry®</td>
<td>Two (2) #10 x 2-1/2&quot; SplitStop Titan III Composite Screws at each end and joist support.</td>
<td>16</td>
<td>9</td>
<td>100</td>
<td>428</td>
</tr>
<tr>
<td>Fiberon® ArmorGuard®</td>
<td>Two (2) #10 x 2-1/2&quot; SplitStop Titan III Composite Screws at each end and joist support.</td>
<td>16</td>
<td>8</td>
<td>100</td>
<td>375</td>
</tr>
<tr>
<td>Veranda Composite</td>
<td>Two (2) #10 x 2-1/2&quot; SplitStop Titan III Composite Screws at each end and joist support.</td>
<td>16</td>
<td>8</td>
<td>100</td>
<td>300</td>
</tr>
<tr>
<td>Paramount® PVC</td>
<td>Two (2) #10 x 2-3/4&quot; Cortex® composite deck screws at each end and joist support.</td>
<td>16</td>
<td>24 (reinforced)4</td>
<td>100</td>
<td>544</td>
</tr>
</tbody>
</table>

**Notes:**
1. Deck board cross-sections are provided in Figures 1, 3, 5, 7, 10, 12, & 14.
2. Approved fasteners are provided in Figures 17 and 18.
3. A minimum two-span condition is required when deck boards are utilized for a stair tread application.
4. Paramount deck boards used in a stair tread application must be reinforced with a 2x6 preservative treated SYP blocking as shown in Figure 16.
5. Wind uplift values based upon the lesser of deck board flexural strength, fastener pull-through, and fastener withdrawal from SYP lumber. Fastener withdrawal from alternative lumber species shall be approved by the Building Official prior to installation.

### Table 3 - Fiberon Grooved Deck Boards Span & Wind Uplift Ratings

<table>
<thead>
<tr>
<th>Deck Board1</th>
<th>Fastener System3</th>
<th>Span (in)</th>
<th>Stair Tread Span2 (in)</th>
<th>Load Rating (psf)</th>
<th>Wind Uplift (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good Life™ Grooved</td>
<td>Fiberon Phantom GT Hidden Fastener System</td>
<td>16</td>
<td>NP</td>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>ProTect® Grooved</td>
<td>Fiberon Phantom GT Hidden Fastener System</td>
<td>16</td>
<td>NP</td>
<td>100</td>
<td>172</td>
</tr>
<tr>
<td>Sanctuary® Grooved</td>
<td>Fiberon Phantom GT Hidden Fastener System</td>
<td>16</td>
<td>NP</td>
<td>100</td>
<td>172</td>
</tr>
<tr>
<td>ProTect Advantage® Grooved ProTect Advantage FR Grooved</td>
<td>Fiberon Phantom GT Hidden Fastener System</td>
<td>16</td>
<td>NP</td>
<td>100</td>
<td>172</td>
</tr>
<tr>
<td>Horizon® Grooved Horizon Symmetry® Grooved</td>
<td>Fiberon Phantom GT Hidden Fastener System</td>
<td>16</td>
<td>NP</td>
<td>100</td>
<td>162</td>
</tr>
<tr>
<td>Fiberon® ArmorGuard® Grooved</td>
<td>Fiberon Phantom GT Hidden Fastener System</td>
<td>16</td>
<td>NP</td>
<td>100</td>
<td>172</td>
</tr>
<tr>
<td>Paramount® PVC Grooved</td>
<td>Fiberon Phantom GT Hidden Fastener System</td>
<td>16</td>
<td>NP</td>
<td>100</td>
<td>169</td>
</tr>
</tbody>
</table>

**Notes:**
1. Grooved deck board cross-sections are provided in Figures 1, 3, 5, 7, 10, 12, & 14.
2. Grooved deck boards are not permitted (NP) in stair tread applications.
3. Fiberon Phantom GT Hidden Fastener System is detailed in Figure 19. A #8 x 1.6" long trim head stainless steel screw (0.165" major diameter, 0.105" minor diameter) shall be used for all Hidden Fastener System installations.
Figure 1 - Fiberon Good Life™ Cross-Section

Figure 2 - Good Life™ & Good Life™ Tropics Approved Colors

Figure 3 - Fiberon Sanctuary™ Cross-Sections

Figure 4 - Fiberon Sanctuary™ Approved Colors
Figure 5 - Fiberon ProTect®, ProTect Advantage®, & ProTect Advantage FR Cross-Sections

Figure 6 - Fiberon ProTect® & ProTect Advantage® Approved Colors
Figure 7 - Fiberon Horizon® & Horizon Symmetry® Cross-Sections

Greystone
Ipe
Rosewood
Tudor Brown
Castle Gray

Figure 8 - Fiberon Horizon® Approved Colors

Burnt Umber
Warm Sienna
Cinnabar
Graphite

Figure 9 - Fiberon Horizon Symmetry® Approved Colors
Figure 10 - Fiberon® ArmorGuard® Cross-Section

Figure 11 - Fiberon® ArmorGuard® Approved Colors

Figure 12 - Veranda Composite Cross-Section

Figure 13 - Veranda Composite Approved Colors
Figure 14 - Fiberon Paramount® PVC Cross-Section

Brownstone  Flagstone  Fossil

Mineral  Sandstone

Figure 15 - Fiberon Paramount® PVC Approved Colors

Figure 16 - Fiberon Paramount® PVC Stair Tread Installation
Product Labeling

Each deck board shipment, that is covered by this **Product Evaluation Report**, must have a label attached with at least the following information:

1. Fiber Composites, LLC Name and Address
2. Product Name
3. Plant Identifier & Date Code
4. This **PER** Number and **Pei Evaluation Service** Logo
5. Allowable Load and Maximum Allowable Span (Indicate Compliance with ASTM D7032)
6. WUI Rating (SFM 12-7A-4A) and SFM Label

Acceptable Evaluation Marks

![Pei Evaluation Service Logos]
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 Composites, LLC Quality Control Manual - Dated: May 25, 2017


A Test Report No. 15053r2 - CSFM 12-7A-4A Nominal 1"x6" ProTect Advantage FR Composite Deck 3/16" Edge-to-Edge Spacing - Dated: September 22, 2015


A Test Report No. 14006a - CSFM 12-7A-4A Deck Testing of 15/16" x 5-1/2" Fiberon Paramount (PVC) 3/16" Edge-to-Edge Spacing - Dated: March 17, 2014