1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2018 and 2015 International Building Code® (IBC)
- 2018 and 2015 International Residential Code® (IRC)
- 2017 Florida Building Code (see Section 9) – Excluding High Velocity Hurricane Zone

NOTE: This report references 2018 Code sections with [2015] Code sections shown in brackets where they differ.

1.2 AZEK Cellular PVC Cladding has been evaluated for the following properties (see Table 1):

- Physical Properties
- Surface Burning
- Wind Load Resistance

1.3 AZEK Cellular PVC Cladding was evaluated for the following uses (see Table 1):

- Use as an exterior wall cladding on buildings of Type V-B construction (IBC, FBC) and all construction types permitted under the IRC and FBC-Residential.

2.0 STATEMENT OF COMPLIANCE

AZEK Cellular PVC Cladding complies with the Codes listed in Section 1.1, for the properties stated in Section 1.2 and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

3.0 DESCRIPTION

3.1 AZEK Cellular PVC Cladding have a rectangular profile 1” thick and 5.5” wide and are composed of a solid co-extruded cellular polyvinyl chloride (PVC) with a polymer cap and finished with a simulated wood-grain pattern. Harvest and Arbor collections are semi-capped (capped on three sides), and the Vintage collection is fully capped in cross section.

3.1.1 AZEK Harvest® Collection® products are produced in five colors: Autumn Chestnut™, Brownstone, Island Oak™, Kona®, and Slate Gray.

3.1.2 AZEK ARBOR Collection® products are produced in six colors: Acacia®, Brazilian Walnut, Hazelwood, Morado®, Mountain Redwood™, and Silver Oak®.

3.1.3 AZEK Vintage Collection® products are produced in three colors: Cypress, Dark Hickory, and Mahogany.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Windload Resistance – Maximum allowable design pressures are shown in Table 2 for the AZEK Cellular PVC Cladding when installed in accordance with this report.

4.2 AZEK Cellular PVC Cladding has a flame spread index not exceeding 200 when tested in accordance with ASTM E 84.

5.0 INSTALLATION

5.1 General:

AZEK Cellular PVC Cladding must be installed in accordance with the manufacturer’s published installation instructions,
the applicable Code, and this Research Report. A copy of the manufacturer’s instructions must be available on the jobsite during installation.

5.2 Application:

5.2.1 **AZEK Cellular PVC Cladding** shall be installed with fastening as described in Table 2.

5.2.2 **AZEK Cellular PVC Cladding** shall be attached to treated Southern Yellow Pine (G = 0.55, or greater), minimum 2” x 4” nominal wood battens secured to the wall framing over an approved structural wood sheathing complying with Section 2303.1.5 of the IBC and FBC-B.

5.2.3 Sheathing must be covered by an approved water-resistant barrier complying with Section 1403.2 [1404.2] of the IBC and FBC-B, and Section R703.1.1 of the IRC and FBC-R, and provide a means for draining water that enters the assembly to the exterior.

5.2.4 Protection against condensation shall be provided in accordance with Section 1405.3 [1405.3] of the IBC and FBC-B.

5.2.5 Flashing shall be installed in accordance with Section 1404 [1405] of the IBC and FBC-B, and Section R703.4 of the IRC and FBC-R.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer’s published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 Wind design pressures determined from nominal design wind speeds (Vawd) in accordance with Section 1609.3.1 of the IBC and FBC-B shall not exceed the maximum allowable design pressure given in Table 2 for **AZEK Cellular PVC Cladding**.

6.3 **AZEK Cellular PVC Cladding** is limited to the exterior use on buildings of combustible nonfire-resistance-rated construction: IBC and FBC-B Type V-B construction and all construction types permitted under the IRC and FBC-R.

6.4 The compatibility of all fasteners with supporting structure, including chemically treated wood, is not within the scope of this report and subject to approval by the code official.

6.5 Only those types of fasteners and fastening methods described in this report have been evaluated for the installation of the **AZEK Cellular PVC Cladding**. Other methods of attachment are outside the scope of this report.

6.6 The wood battens and wood batten attachment to the building structure is outside the scope of this report.

6.7 **AZEK Cellular PVC Cladding** recognized in this report are manufactured in accordance with the manufacturer’s approved quality control system with inspections by Intertek. See Table 3 approved manufacturing locations.

6.8 **AZEK Cellular PVC Cladding** is manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE


7.2 Reports of testing in accordance with ASTM D635-14 [10], Test Method for Rate of Burning and/or Extent and Time of Burning of Self-supporting Plastics in a Horizontal Position.

7.3 Reports of evaluation and engineering analysis for allowable fastener capacities in accordance with NDS-2015, National Design Specification (NDS) for Wood Construction.

7.4 Reports of testing in accordance with ASTM E84-16 [2013a], Test Method for Surface Burning Characteristics of Building Materials.

7.5 Data in accordance with the ICC-ES AC227, Acceptance Criteria for Rigid Cellular PVC Nonload-Bearing Exterior Trim,
7.6 Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report.

8.0 IDENTIFICATION

AZEK Cellular PVC Cladding is identified with the following information:

- Manufacturer’s name (CPG International LLC d/b/a The AZEK® Company LLC)
- Manufacturer’s address and telephone number
- The product name (AZEK Cellular PVC Cladding)
- The following statements: “Intertek CCRR-0266” and “See CCRR at https://whdirectory.intertek.com for uses and performance levels.”
- The Intertek Mark as shown in the example below
- The Code Compliance Research Report number (CCRR-0266).

9.0 FLORIDA BUILDING CODE

9.1 Scope of Evaluation:


9.1 Conclusion:

AZEK Cellular PVC Cladding, described in Sections 2.0 through 7.0 of this Research Report, comply with the 2017 Florida Building Code – Building, Florida Building Code – Residential and Florida Building Code – Energy, subject to the following conditions:

- Use of AZEK Cellular PVC Cladding for compliance with the High-Velocity Hurricane Zone provisions of the 2017 Florida Building Code – Building and the Florida Building Code – Residential has not been evaluated and is outside the scope of this Research Report.
- Intertek is a quality assurance entity approved by the Florida Building Commission.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the https://bpdirectory.intertek.com is recommended to ascertain the current version and status of this report.

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## TABLE 1 – PROPERTIES EVALUATED

<table>
<thead>
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<tbody>
<tr>
<td>Physical Properties</td>
<td>1403.9</td>
<td>R703.11</td>
<td>1404.9</td>
<td>R703.11</td>
<td>1404.9</td>
<td>R703.11</td>
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<td></td>
<td>1403.12</td>
<td>R703.14</td>
<td>1404.12</td>
<td>R703.14</td>
<td>1404.12</td>
<td>R703.14</td>
</tr>
<tr>
<td>Surface Burning</td>
<td>1403.12</td>
<td>R703.14</td>
<td>1404.12</td>
<td>R703.14</td>
<td>1404.12</td>
<td>R703.14</td>
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<td>R703.1.2</td>
<td>1405.14</td>
<td>R703.1.2</td>
<td>1405.14</td>
<td>R703.14</td>
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## TABLE 2 – AZEK CELLULAR PVC CLADDING ALLOWABLE DESIGN PRESSURES

<table>
<thead>
<tr>
<th>Battens</th>
<th>Fastener Description</th>
<th>Allowable Design Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southern Pine (Specific Gravity, 0.55)</td>
<td>Two #10 x 2&quot; long OMG FastenMaster® Cortex trim board carbon steel fastener into each stud, and three Cortex fasteners at the end of each plank</td>
<td>223 psf</td>
</tr>
<tr>
<td></td>
<td>Two #8 x 2.5&quot; stainless steel trim-head screw (9 TPI, 0.130&quot; shank dia., 0.258&quot; head dia.) into each stud</td>
<td>395 psf</td>
</tr>
</tbody>
</table>

(1) Installation on battens with a lesser thickness or lesser specific gravity may result in a lower allowable design pressure.  
(2) Allowable wind loads are applicable to wind design pressure derived from nominal wind speed ($V_{asd}$) per Section 1609.3.1 of the IBC and FBC-B.

## TABLE 3 – MANUFACTURING LOCATIONS

<table>
<thead>
<tr>
<th>Products</th>
<th>Manufacturing Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZEK ARBOR Collection®</td>
<td>Moosic, Pennsylvania</td>
</tr>
<tr>
<td>AZEK Harvest® Collection®</td>
<td>Wilmington, Ohio</td>
</tr>
<tr>
<td>AZEK Vintage Collection®</td>
<td>Wilmington, Ohio</td>
</tr>
</tbody>
</table>
1 x 5 ½ Solid Board

FIGURE 1 – AZEK HARVEST®, ARBOR COLLECTION®, AND VINTAGE COLLECTION®

#8 x 2.5" stainless steel trim head screw

#10 x 2" OMG FastenMaster™ Cortex

FIGURE 2 – FASTENERS