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**DIVISION: 07 00 00 – THERMAL AND MOISTURE**

**Section: 07 46 33 – Plastic Siding**

**REPORT HOLDER:**

Resysta North America, Inc.  
4035 Cheyenne Court  
Chino, CA 91710  
909-393-2888  
[www.resystausa.com](http://www.resystausa.com)

**REPORT SUBJECT:**

Resysta 4 Channel Façade

### 1.0 SCOPE OF EVALUATION

**1.1** This Research Report addresses compliance with the following Codes:

- 2024, 2021, 2018 *International Building Code*® (IBC)
- 2024, 2021, 2018 *International Residential Code*® (IRC)
- 2023, 2020 *Florida Building Code* (see Section 9),  
Including HVHZ

NOTE: This report references the most recent code editions cited. Section numbers in earlier editions of the codes may differ.

**1.2** Resysta 4 Channel Façade has been evaluated for the following properties:

- Durability
- Surface Burning
- Weather Resistance
- Wind Load Resistance
- Decay Resistance
- Termite Resistance

**1.3** The Resysta 4 Channel Façade is intended for use as an exterior wall covering on buildings of Type VB construction (IBC, FBC) and all construction types permitted under the IRC.

### 2.0 STATEMENT OF COMPLIANCE

Resysta 4 Channel Façade 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.

#### 2.1 2024 IBC and IRC Evaluation Reports

The Intertek CCRR is an *Evaluation Report* for approval of an alternate material, design, or method of construction in accordance with Section 104.2.3.6.1 of the 2024 IBC and Section R104.2.2.6.1 of the 2024 IRC.

### 3.0 DESCRIPTION

**3.1** Resysta 4 Channel Façade is a mono-extruded, rigid plastic composite wall cladding consisting of polyvinyl chloride and rice hull filler. Resysta 4 Channel Façade is finished with a simulated wood-grain pattern and has nominal dimensions of 5.5 inches wide and 13/16-inch thick, with four hollow channels. See Figure 1.

### 4.0 PERFORMANCE CHARACTERISTICS

**4.1** Windload Resistance – Maximum allowable negative design pressures are shown in Table 1 for the Resysta 4 Channel Façade when installed in accordance with this report.

**4.1.1** Resysta 4 Channel Façade has not been evaluated for resisting positive wind pressure. Façade must be installed over structural wood sheathing designed to resist positive design wind pressures in accordance with the applicable code.

**4.2** Materials are deemed equivalent to preservative treated or naturally durable wood for resistance to weathering effects, attack from termites and fungus decay.

**4.3** Materials used have a flame spread index of less than 200 when tested in accordance with ASTM E 84.



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**4.4** *Resysta 4 Channel Facade* complies with Section 2605.2 of the IBC and FBC for use as an exterior plastic veneer.

## 5.0 INSTALLATION

**5.1** *Resysta 4 Channel Facade* must be installed in accordance with the manufacturer's published installation instructions, the applicable Code and this Research Report. The manufacturer's published installation instructions and this Research Report must be strictly adhered to, and a copy of the instructions must be available on the jobsite during installation. See Table 1 for fastening schedule.

**5.2** *Resysta 4 Channel Facade* shall be installed via steel, aluminum, or wood battens over an approved structural wood sheathing; 5/8-inch plywood complying with DOC PS 1, DOC PS 2, or ANSI/APA PRP 210, per IBC and FBC 2303.1.5.

**5.3** Sheathing must be covered by an approved water-resistive barrier complying with IBC Section 1403.2, and Section R703.1.1 of the IRC, and provide a means for draining water that enters the assembly to the exterior.

**5.4** Protection against condensation shall be provided in accordance with IBC Section 1404.3.

**5.5** Flashing shall be installed in accordance with IBC Section 1404.4 and IRC Section R703.4.

## 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** See Section 1.3 for construction types and use classifications.

**6.3** Wind design pressures determined from nominal design wind speeds ( $V_{asd}$ ) in accordance with Section 1609.3.1 of the IBC and FBC shall not exceed the maximum allowable design pressure given in Table 1 for *Resysta 4 Channel Facade*.

**6.4** *Resysta 4 Channel Facade* is limited to exterior use on buildings of combustible nonfire-resistance-rated

construction: IBC and FBC Type V-B construction and all construction types permitted under the IRC.

**6.5** Only those types of fasteners and fastening methods described in this report have been evaluated for the installation of the *Resysta 4 Channel Façade*. Other methods of attachment are outside the scope of this report.

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

**6.7** The product is manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

## 7.0 SUPPORTING EVIDENCE

**7.1** Manufacturer's drawings and installation instructions.

**7.2** Reports of testing demonstrating equivalent impact and windload resistance requirements for plastic siding in accordance with ASTM D7254-21 [17], Standard Specification for polypropylene (PP) siding.

**7.3** Reports of testing demonstrating termite and decay resistance in accordance with ASTM D7032-21 [17], Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails) as required by IBC Section 2612.4 for Plastic Composites.

**7.4** Reports of testing demonstrating compliance with ASTM E84-21a [2018b], Test Method for Surface Burning Characteristics of Building Materials.

**7.5** Reports of freeze-thaw, water and weathering resistance demonstrating compliance with AC92, Acceptance Criteria for Polymer-based, Polymer-modified and High-Pressure Laminate Exterior and Interior Wall Cladding, approved March 2016.

**7.6** Reports of testing demonstrating compliance with ASTM D1929-20 [16], Test Method for Determining Ignition Properties of Plastics.

**7.7** Reports of testing demonstrating compliance with ASTM D2843-22 [16], Test Method for Density of Smoke from the Burning or Decomposition of Plastics.





**7.8** Reports of testing demonstrating compliance with ASTM D635-18 [14], Test Method for Rate of Burning and/or Extent and Time of Burning of Self-supporting Plastics in a Horizontal Position.

**7.9** Reports of evaluation and engineering analysis for allowable fastener design capacities by a Professional Engineer registered in the State of Florida.

**7.10** Testing for Florida Building Code was performed by a Miami-Dade County approved testing facility (Architectural Testing, Inc. – York, PA) with reports signed and sealed by a Professional Engineer registered in the State of Florida. These reports are;

**7.10.1** Reports of testing demonstrating compliance with Section 2615.2 of the Florida Building Code for Approved Plastics.

**7.10.2** Reports of testing to Testing Application Standard (TAS) 202-94 "Criteria for Testing Impact & Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure" as required by Section 1620 of the Florida Building Code.

**7.10.3** Reports of testing to Testing Application Standard (TAS) 203-94 "Criteria for Testing Products subject to Cyclic Wind Pressure Loading" as required by Sections 1625, Table 1625.4 and Table 1626 of the Florida Building Code.

**7.11** Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report.

## 8.0 IDENTIFICATION

The *Resysta* 4 Channel Facade is identified with the manufacturer's name (*Resysta*), the Intertek Mark, and the Code Compliance Research Report number (CCRR-0273).



## 9.0 FLORIDA BUILDING CODE

### 9.1 Scope of Evaluation:

The *Resysta* 4 Channel Facade was evaluated for compliance with the *Florida Building Code – Building* and *Florida Building Code – Residential*.

**9.1.1** FBC, High Velocity Hurricane Zones (HVHZ) - *Resysta* 4 Channel Facade has been additionally tested to show compliance with the requirements of the Florida Building Code for use in locations designated as High Velocity Hurricane Zones. Testing has shown;

**9.1.2** Sufficient weathering resistance of plastics with outdoor exposure when tested to ASTM G 155 and ASTM D 2565 for a period of 4500 hours and subsequent testing demonstrating compliance with FBC Section 2615.2.

**9.1.3** Sufficient resistance to wind forces as determined by Section 1620 of the Florida Building Code when tested to FBC Test Protocol TAS 202-94.

**9.1.4** Sufficient resistance to cyclic wind pressure loading as determined by Sections 1625, Table 1625.4 and Table 1626 of the Florida Building Code when tested to FBC Test Protocol TAS 203-94.

### 9.2 Conclusion:

The *Resysta* 4 Channel Facade, described in Sections 2.0 through 7.0 of this Research Report, comply with the *Florida Building Code – Building* and *Florida Building Code – Residential*, subject to the following conditions:

- Use of the *Resysta* 4 Channel Facade for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code – Building* and the *Florida Building Code – Residential* has been evaluated and is within the scope of this Research Report.



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## 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 – *Resysta* 4 Channel Facade Allowable Design Pressures

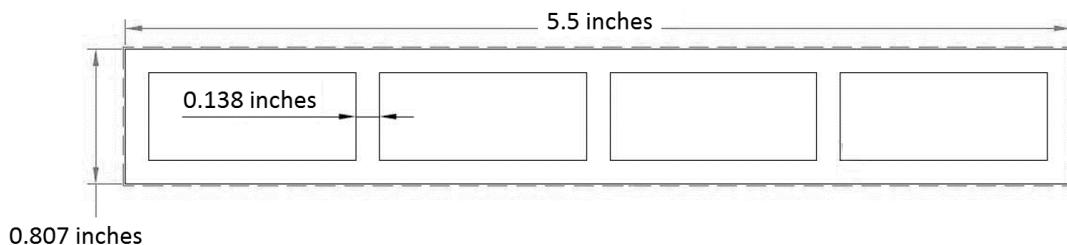
Battens			Fastener		Allowable Design Pressure <sup>(4)</sup>
Material <sup>(1)</sup>	Thickness <sup>(1)</sup>	Spacing	Description	Spacing	
Spruce-Pine-Fir (Specific Gravity, 0.42)	3/4"	16"	Two #8 x 1-1/2" pan-head, stainless steel, wood screws. <sup>(2)</sup>	16" o.c.	110 psf
Structural Steel Grade 50	18 gauge	16"	Two #8 x 3/4" pan-head, SMS (Grade 2) steel, TEK screws <sup>(2)(3)</sup>	16" o.c.	136 psf
6063-T5 Aluminum	0.045"	16"	Two #8 x 3/4" pan-head, stainless steel, Tek screws. <sup>(2)(3)</sup>	16" o.c.	120 psf

<sup>(1)</sup> Installation on battens with a lesser thickness or lesser mechanical properties may result in a lower allowable design pressure.

<sup>(2)</sup> Pre-drill façade with 1/8" diameter drill bit through the top and bottom walls. Drill a 29/64" access hole through top surface of the façade. Fasteners are installed through the bottom wall of the façade, 3/4" from each edge of the façade.

<sup>(3)</sup> Fasteners for attached to steel and aluminum battens shall extend through the steel or aluminum a minimum of three exposed threads.

<sup>(4)</sup> Applicable to wind design pressures determined from allowable stress [nominal] design wind speeds ( $V_{asd}$ ) in accordance with Section 1609.3.1 of the IBC and FBC.

Figure 1 – *Resysta* 4 Channel Facade

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