Code Compliance Research Report
CCRR-0607

Issue Date: 05-29-2025
Revised Date: 07-15-2026
Renewal Date: 05-31-2027

DIVISION: 07 – THERMAL AND MOISTURE PROTECTION
Section: 07 31 00 – Shingles and Shakes

REPORT HOLDER:
FWave LLC
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www.fwaveroofing.com

REPORT SUBJECT:
REVIA™ XTM Roofing Shingle Profiles:
American Blend
Classic Slate
Hand-Split Shake

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 *Florida Building Code*, including *High-Velocity Hurricane Zones* (see Section 9)

NOTE: This report references the most recent code editions noted. Section numbers in earlier versions may differ.

1.2 REVIA™ XTM Roofing Shingles have been evaluated for the following properties:

- Fire Classification
- Weather Resistance
- Wind Resistance
- Durability
- Impact Resistance

1.3 REVIA™ XTM Roofing Shingles have been evaluated for the following uses:

- Alternative strip shingles for use on steep-slope roofs, providing a Class A fire-rated roof covering when installed according to the manufacturer's instructions and this report.

2.0 STATEMENT OF COMPLIANCE

REVIA™ XTM Roofing Shingles comply 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 Conditions of Use stated in Section 6.0.

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

REVIA™ XTM Roofing Shingles are granular-free, single-piece products molded from a proprietary blend of synthetic polymer materials to simulate shingles, shakes or slate roofing. The nominal size of each shingle is 39-1/4 inches long x 14-3/8 inches wide. See Figures 1, 2 and 3.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Fire Classification: REVIA™ XTM Roofing Shingles are classified as a Class A roof covering for combustible decks in accordance with IBC Section 1505.1 and IRC R902.1 when installed in accordance with this report and used with one layer of GAF Tiger Paw Premium Roof Deck Protection underlayment (ESR-2808).

4.2 Wind Resistance:

When installed in accordance with this report, REVIA™ XTM Roofing Shingles are classified as Class F in accordance with ASTM D3161 for use with design wind speeds in accordance with IBC 1504.1 and Table 1504.2 or IRC R905.2 and Table R905.2.4.1.

4.3 Other Performance Characteristics:

4.3.1 Wind and Wind-Driven Rain – REVIA™ XTM Roofing Shingles meet the requirements of TAS 100 as defined in the 2023 *Florida Building Code*.

4.3.2 Wind Uplift Resistance – A wind uplift resistance of 96 psf has been established by testing in accordance with TAS 125.

4.3.3 Material Testing Requirements – REVIA™ XTM Roofing Shingles meet the material testing requirements of TAS 110 for products in High-Velocity Hurricane Zones as defined in the 2023 Florida Building Code section 1523.1.

4.3.4 Impact Resistance - REVIA™ XTM Roofing Shingles are classified as a Class 4 roof covering in accordance with ANSI/FM 4473 and UL 2218.

5.0 INSTALLATION

5.1 REVIA™ XTM Roofing Shingles must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report.

The shingles must be installed on solid sheathing at a minimum slope of 3:12. Solid sheathing must be a minimum of 15/32 inch thick Exposure 1 grade plywood. Sheathing must be adequate and fastened to resist the wind loads as specified by IBC Section 1609 or IRC Section R301.2 for components and cladding.

The underlayment must be one layer of GAF Tiger Paw Premium Roof Deck Protection underlayment (ESR-2808), installed in accordance with applicable Code requirements. An ice barrier must be installed in areas where there has been a history of ice forming along the eaves causing a backup of water. The ice barrier shall consist of not less than two layers of underlayment cemented together and shall extend from the lowest edges of all roof surfaces to a point not less than 24 inches inside the exterior wall line of the building.

The shingles must be installed starting with a row of REVIA Starter Shingles (see Figure 4). The starter shingles must extend 3/8 inch over the eaves and rakes and must be installed with six fasteners installed per the manufacturer's instructions.

The shingles are installed with a 6-inch exposure area and a 1-1/2 tab offset. The shingles are secured to the sheathing using a minimum of six fasteners per shingle, installed in the recessed nail boxes. The fasteners must be minimum No. 12-ga. 1-1/4-in. ring shank nails and must be sufficient length to allow 3/4-inch penetration of the sheathing.

Hips, ridges, and valleys must be flashed as specified in the manufacturer's published installation instructions.

Flashing and edge materials shall meet the minimum requirements of IBC Sections 1503.2 and 1507.2.8 or IRC Section R905.2.8.

Reroofing requires that existing roof covering and underlayment must be completely removed, and damaged sheathing replaced prior to installing REVIA™ XTM Roofing Shingles.

6.0 CONDITIONS OF USE

6.1 REVIA™ XTM Roofing Shingles 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. In the event of a conflict, this report governs.

6.2 REVIA™ XTM Roofing Shingles are 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 Data in accordance with ICC-ES AC513, Alternative Strip Shingle Steep-slope Roof Coverings, dated October 2021 (editorially revised April 2022).

7.3 Reports of tests demonstrating compliance with ASTM E108, ASTM D3161, UL 2218, ANSI/FM 4473, TAS 100, TAS 125 and TAS 110.

7.4 Intertek Listing Report "FWave LLC – REVIA™ XTM Roofing Shingles" at www.bpdirectory.intertek.com (reference Spec ID 84968).

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

8.0 IDENTIFICATION

Bundles of the REVIA™ XTM Roofing Shingles are identified with the following:

- The name of the report holder (Fwave LLC), the product name (REVIA™ XTM Shingles)
- The statement "Install on solid sheathing, min. slope 3:12"
- The wording “Fire Classification: ASTM E108 Class A”
- The Intertek Mark (example shown below)
- The Intertek Code Compliance Research Report number, CCRR-0607
- The Intertek Control Number.

9.0 FLORIDA BUILDING CODE

The REVIA™ XTM Roofing Shingles described in Sections 2.0 through 8.0 of this Research Report, comply with the 2023 *Florida Building Code*, subject to the following conditions:

- The shingles have been evaluated for compliance with the High-Velocity Hurricane Zones provisions of the 2023 *Florida Building Code.*
- The shingles have a wind uplift resistance of 96 psf as determined by testing in accordance with TAS 125.
- The shingles shall be installed over minimum 19/32-in.-thick CD exposure 1 plywood using six No. 12-ga. 1-1/2-in. ring shank nails per shingle.

Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*

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 – CODE REFERENCES (SECTIONS)

Property	2024 IBC	2024 IRC	2023 FBC Building	2023 FBC Residential
Alternative Materials	104.2.3	R104.2.2	104.11	R101.2.1
Fire Classification	1505.1	R902.1	1505.1	R902.1
Wind Resistance	1504.1	R905.2.4.1	1507.2.7.1	R905.2.6.1
HVHZ	--	--	1512.2.2 1523.1.1 1626.4	R4402.1

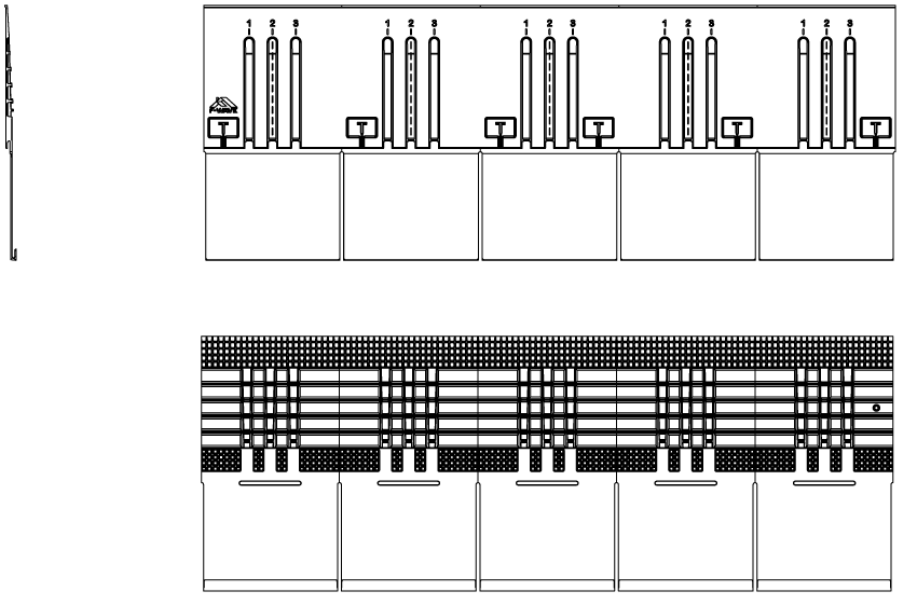


FIGURE 1 – REVIA™ XTM SHINGLE – AMERICAN BLEND

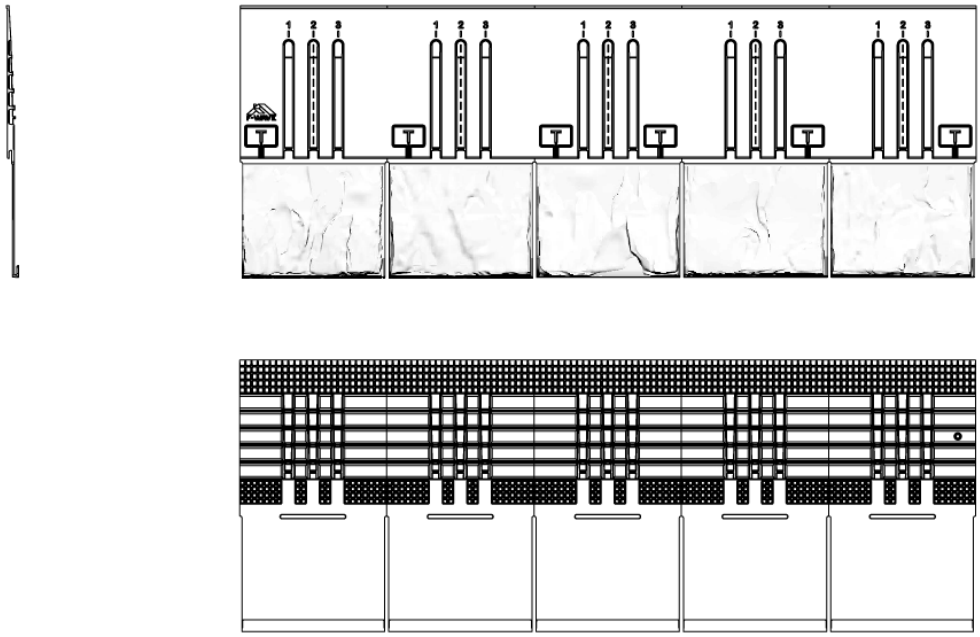


FIGURE 2 – REVIA™ XTM SHINGLE – CLASSIC SLATE

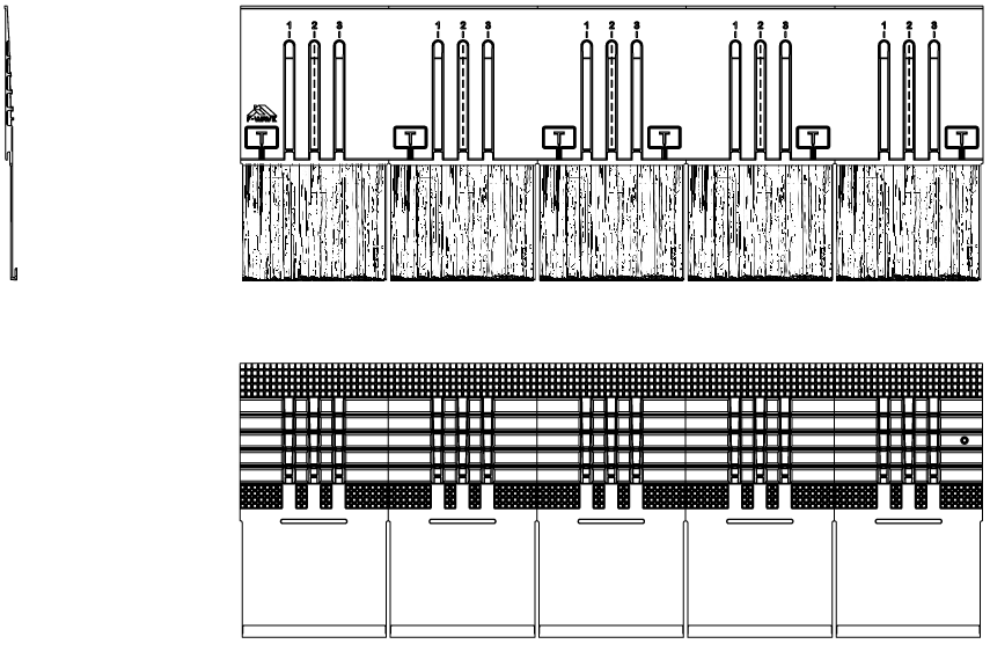


FIGURE 3 – REVIA™ XTM SHINGLE – HAND-SPLIT SHAKE

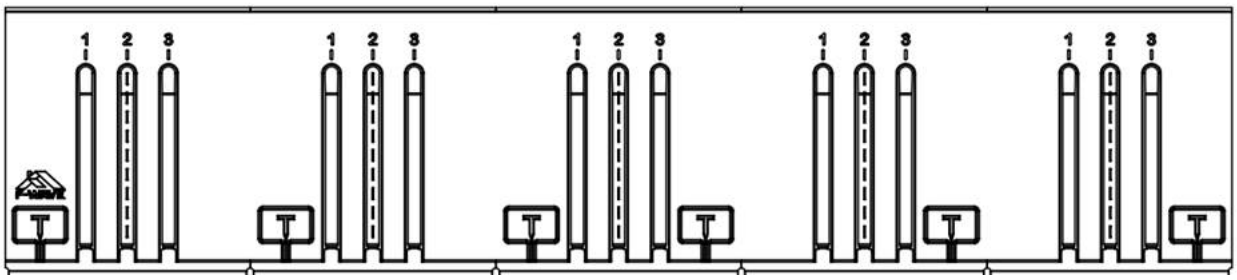


FIGURE 4 - REVIA ROOFING SHINGLE STARTER PIECE