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DIVISION: 07 00 00 – THERMAL and MOISTURE PROTECTION
Section: 07 31 16 – Metal Shingles

REPORT HOLDER:
ATAS International, Inc.
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REPORT SUBJECT:
Advanta® Shingle Roof Panels

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)

1.2 *Advanta*® Shingle Roof Panels have been evaluated for the following properties:

- Fire Classification
- Weather Resistance
- Wind-Uplift Resistance

1.3 *Advanta*® Shingle Roof Panels have been evaluated for the following uses:

- As commercial or residential roofing designed as an alternative to dimensional asphalt shingles. *Advanta*® Shingle Roof Panels are recognized as Class A roof covering material when installed as specified in this report.

2.0 STATEMENT OF COMPLIANCE

Advanta® Shingle Roof Panels 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 the Conditions of Use stated in Section 6.0.

3.0 DESCRIPTION

3.1 Materials and Processes – *Advanta*® Shingle Roof Panels are press-formed from 29 gauge G90 galvanized steel that is covered with polyvinylidene fluoride (PVDF) paint and embossed with a stucco texture. Flashing, drip edges, gable trim, ridge caps and hip caps are all manufactured from the same base galvanized steel as the roof panels and are finished with the same paint and texture.

3.2 Profiles – *Advanta*® Shingle Roof Panels are 14 inches by 36-½ inches with a 12 inch by 36 inch exposed area. The installed weight is 0.95 psf. See Figures 1 and 2.

4.0 PERFORMANCE CHARACTERISTICS

4.1 *Advanta*® Shingle Roof Panels have an allowable wind uplift resistance of 45 psf based on a safety factor of two when installed as part of an assembly as described in Section 5.0.

4.2 When installed with GAF Versashield™ underlayment, *Advanta*® Shingle Roof Panels provide a roof covering system with a fire classification of Class A in accordance with IBC Section 1505.

5.0 INSTALLATION

5.1 General:

Advanta® Shingle Roof Panels 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 Fasteners – Fasteners shall be ring shank, grommet, galvanized steel nails. Nail heads must have $\frac{3}{8}$ inch head diameter and be at least $1\text{-}\frac{3}{4}$ inches long. Neoprene washers must be $\frac{3}{8}$ inches in diameter. Nails must be spaced $8\text{-}\frac{5}{8}$ inches o.c. along the panel length for a total of 5 nails per panel.

5.2.2 Underlayment – Underlayment shall be in accordance with the requirements for metal roof shingles specified in IBC Section 1507.1.1 or IRC Section R905.1.1 as applicable.

5.2.2.1 For installations where Class A roof covering is required, underlayment shall be one layer of GAF Versashield™.

5.2.3 Flashing – Flashing must comply with IBC Section 1503.2 or IRC Section R903.2.

5.2.4 Roof Panels – Shingle panels shall be installed on roofs having a minimum slope of 3:12. Solid sheathing must be at least $\frac{15}{32}$ inch thick exterior grade plywood. Underlayment, as specified in section 5.2.2 must be applied per the applicable codes.

6.0 CONDITIONS OF USE

Advanta® Shingle Roof Panels identified in this report are deemed to comply with the intent of the provisions of the referenced building codes per the following conditions:

6.1 Wind pressure determined from allowable stress (nominal) design wind speeds (V_{asd}) in accordance with IBC Section 1609.3.1 and IRC Section R301.2.1.3 shall not exceed the maximum allowable wind pressure specified in section 4.1.

6.2 Where classified roof coverings are required, *Advanta*® Shingle Roof Panels shall be installed with UL listed GAF Versashield™ underlayment.

6.3 *Advanta*® Shingle Roof Panels may be installed over existing shingle systems or underlayment if IBC Section 1511 or IRC Section R908 conditions are met.

6.4 *Advanta*® Shingle Roof Panels must be insulated against other metals or materials including lead, cement, copper, graphite and treated lumber that contains corrosive materials.

6.5 *Advanta*® Shingle Roof Panels are manufactured in accordance with the manufacturer’s approved quality control systems 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 compliance with ICC-ES AC166 revised January 2018.

7.3 Reports of testing for wind resistance in accordance with UL 1897.

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

7.5 GAF Versashield™ UL Class A Listing Report TGFU R10689.

8.0 IDENTIFICATION

Advanta® Shingle Roof Panels are identified with the manufacturer’s name (ATAS International, Inc.), address and telephone number, the product name (*Advanta*® Shingle Roof Panels), identification that is traceable to the coil number and the production date, the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-0199).





9.0 OTHER CODES

This section is not applicable.

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.

TABLE 1 - PROPERTIES EVALUATED

PROPERTY	2018 IBC SECTION ¹	2018 IRC SECTION ¹
Fire Classification	1505	R905.1.1
Weather Resistance	1503	R903
Wind Uplift Resistance	1504.3.3	See IBC

¹ Section numbers may be different for earlier versions of the International.

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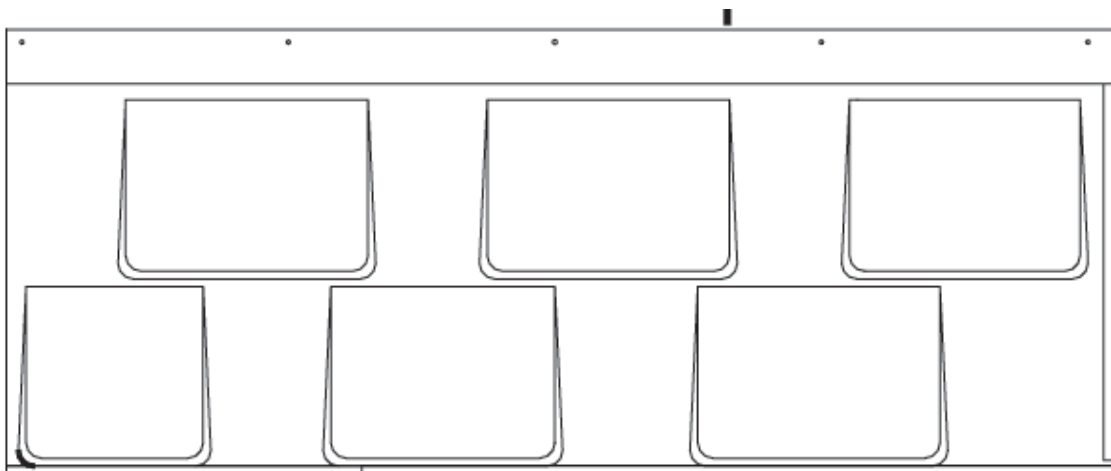


FIGURE 1: ADVANTA® SHINGLE ROOF PANEL

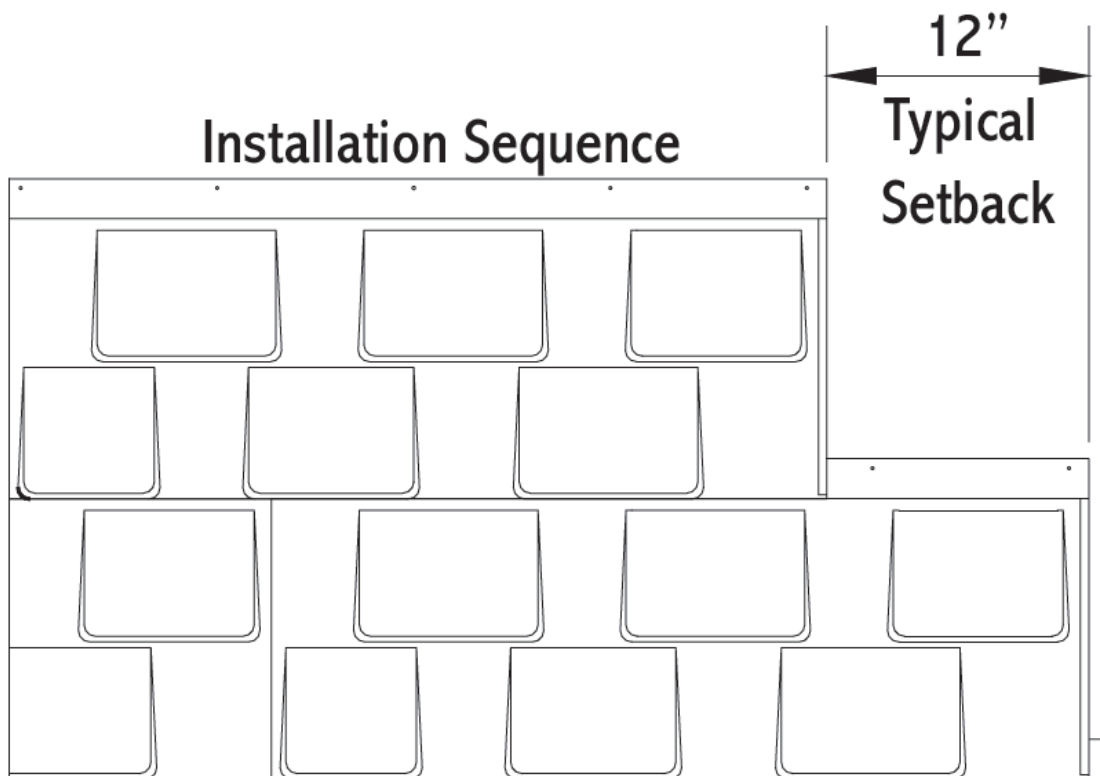


FIGURE 2: ADVANTA® SHINGLE ROOF PANEL INSTALLATION SEQUENCE