



Code Compliance Research Report

CCRR-0199

Subject to Renewal: 10/01/2016
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1.0 Subject

Advanta® Shingle Roof Panels

2.0 Research Scope

2.1. Building Codes:

2006 International Building Code (IBC)

2006 International Residential Code (IRC)

2.2. Properties:

Fire Classification

Weather Resistance

Wind-Uplift Resistance

3.0 Description

3.1. General – *Advanta*® Shingle Roof Panels are commercial or residential roofing designed as an alternative to dimensional asphalt shingles. *Advanta*® Shingle Roof Panels are recognized as Class A roof covering material.

3.2. 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.

3.3. 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 a fire classification rating of Class A per 2006 IBC exception to section 1505.2 or IRC Section R902.1.

4.2. *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.

5.0 Installation

Installation shall be in accordance with the manufacturer's installation instructions and this report. Where differences occur between this report and the manufacturer's installation instructions, this report shall govern.

5.1. Fasteners – Fasteners shall be ring shank, grommet, galvanized steel nails. Nail heads must have ⅝ inch head diameter and be at least 1-¾ inches long. Neoprene washers must be ⅝ inches in diameter. Nails must be spaced 8-⅝ inches o.c. along the panel length for a total of 5 nails per panel.

5.2. Underlayment – Underlayment shall be Type II (No. 30) felt with a minimum 2 inch side lap, and attached per 2006 IBC Section 1507.3 or IRC Section R905.4.

5.3. Flashing – Flashing must comply with IBC Sections 1503.2 and 1503.3 or IRC Sections R903.2 and R903.3.

5.4. Roof Panels – Shingle panels shall be installed on roofs having a minimum slope of 3:12. Solid sheathing must be at least 15/32 inch thick exterior grade plywood. Underlayment, as specified in section 5.2 must be applied per the applicable codes.

6.0 Supporting Evidence

6.1. Manufacturer's drawings and installation instructions.

6.2. Reports of testing demonstrating compliance with ICC-ES AC166.

6.3. Quality control manual in accordance with ICC-ES AC10, Acceptance Criteria for Quality Documentation, approved December 2012.

7.0 Conditions of Use

The *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:

7.1. *Advanta*[®] Shingle Roof Panels may be installed over existing shingle systems or underlayment if IBC Section 1510 or IRC Section R907 are met.

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

7.3. *Advanta*[®] Shingle Roof Panels are manufactured in Allentown, Pennsylvania in accordance with the manufacturer's approved quality control systems with inspections by Architectural Testing, Inc. (AA-676).

8.0 Identification

Advanta[®] Shingle Roof Panels produced in accordance with this report shall be identified with labeling on the individual panels or product packaging that includes the following information:

8.1. Name and/or trademark of the manufacturer and address

8.2. Product Name

8.3. Identification that is traceable to the coil number and production date

8.4. The Architectural Testing Code Compliance Research Report mark and number (CCRR-0199).

8.5. See CCRR-0199 at www.ati-es.com for uses and performance levels.

9.0 Code Compliance Research Report Use

9.1. 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.

9.2. Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product or manufacturer by Architectural Testing.

9.3. Reference to the Architectural Testing internet web site address at www.ati-es.com is recommended to ascertain the current version and status of this report.

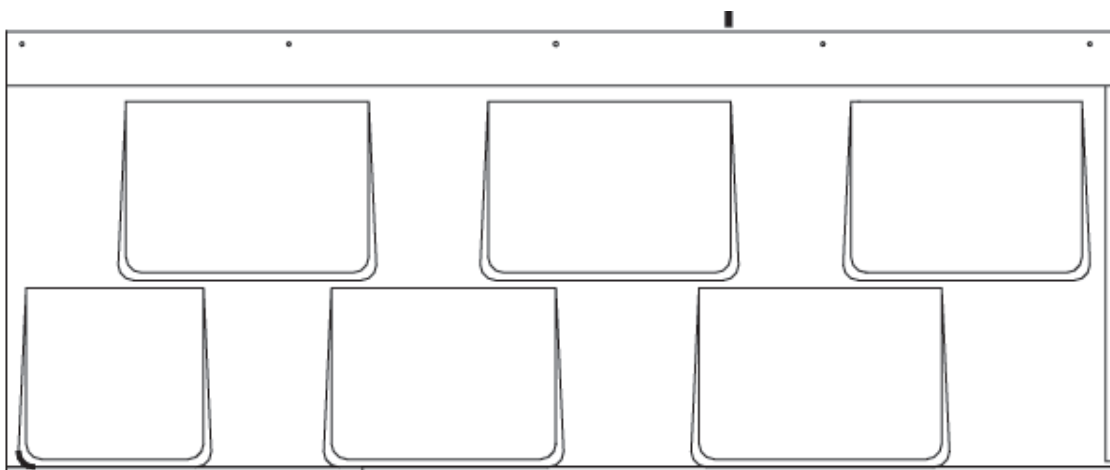


Figure 1: *Advanta*[®] Shingle Roof Panel

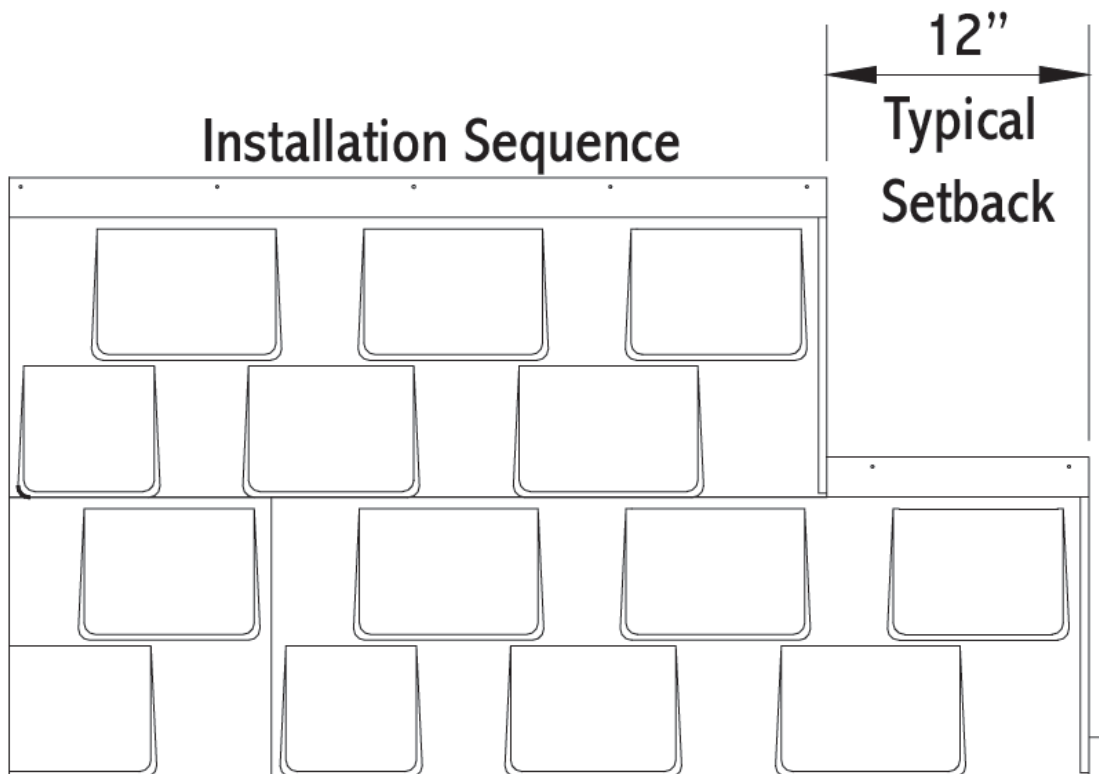


Figure 2: Advanta® Shingle Roof Panel Installation Sequence