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ICC-ES Evaluation Report

ESR-1492

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Reissued 01/2018
This report is subject to renewal 01/2019.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 30 05—ROOFING FELT AND UNDERLAYMENT

REPORT HOLDER:

CERTAINTEED CORPORATION

**20 MOORES ROAD
CITY, STATE ZIP**

EVALUATION SUBJECT:

CERTAINTEED WINTERGUARD™ SERIES ROOF UNDERLAYMENT: WINTERGUARD™ GRANULAR, WINTERGUARD™ HT, WINTERGUARD™ SAND AND METALAYMENT™



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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 30 05—Roofing Felt and Underlayment

REPORT HOLDER:

CERTAINEED CORPORATION
20 MOORES ROAD
MALVERN, PENNSYLVANIA 19355
(610) 893-6000
www.certainteed.com

EVALUATION SUBJECT:

CERTAINEED WINTERGUARD™ SERIES ROOF UNDERLAYMENT: WINTERGUARD™ GRANULAR, WINTERGUARD™ HT, WINTERGUARD™ SAND AND METALAYMENT™

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical properties
- Ice barrier
- Fire classification

1.2 Evaluation to the following green standards:

- 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2015 and ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 3.1

2.0 USES

WinterGuard™ Granular, WinterGuard™ HT, WinterGuard™ Sand and MetaLayment™ are self-adhering membranes used as alternates to the ASTM D226, Type I and Type II roofing underlayments specified in Chapter 15 of the IBC and Chapter 9 of the IRC. The underlayments may also be used as an alternative to the ice barrier required by IBC Chapter 15 and IRC Chapter 9. The underlayments may also be used as a component of a classified roofing assembly when installed as described in Section 4.4 of this report.

3.0 DESCRIPTION

3.1 General:

The underlayments are self-adhering membranes manufactured on a fiberglass substrate coated with a modified bitumen compound, each having a different top exposed surface. The underside of each membrane is provided with a siliconized release film which is removed prior to application of the membrane to the roof deck.

The attributes of the WinterGuard™ Granular, WinterGuard™ HT, WinterGuard™ Sand and MetaLayment™ underlayments have been verified as conforming to the requirements of (i) ICC 700-2015 and ICC 700-2012 Sections 602.1.13, 11.602.1.13 and 12.5.602.1.14; and (ii) ICC 700-2008 Section 602.10 for ice barriers. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.2 WinterGuard™ Series:

3.2.1 WinterGuard™ Granular: This underlayment is surfaced with fine black mineral particles and is supplied in rolls 36 inches (914 mm) wide, 65 feet (20 m) long, and nominally 70 mils (1.75 mm) thick.

3.2.2 WinterGuard™ HT: This underlayment is surfaced with a plastic film and is supplied in rolls 36 inches (914 mm) wide, 32.5 feet (10 m) or 65 feet (20 m) long, and nominally 45 mils thick.

3.2.3 WinterGuard™ Sand: This underlayment is surfaced with sand and is supplied in rolls 36 inches (914 mm) wide, either 32.5 feet (10 m) or 65 feet (20 m) long, and nominally 60 mils thick.

3.3 MetaLayment™:

This underlayment is surfaced with a textured plastic film, and is supplied in rolls 39³/₈ inches (1000 mm) wide, 61 feet (18.6 m) long, and nominally 60 mils thick.

4.0 INSTALLATION

4.1 General:

Installation of the underlayments must comply with the applicable code, this report and the manufacturer's published installation instructions. The installation instructions must be available at the jobsite at all times during installation. The instructions within this report govern if there are any conflicts between the manufacturer's instructions and this report.

4.2 Application:

Roof decks must be dry, and free of dust, dirt, loose nails, or other protrusions to assure a clean surface for good adhesion. Installation of the WinterGuard Series membranes is limited to solid sheathed decks of plywood or oriented strand board (OSB) substrates. Installation of the MetaLayment is limited to solid sheathed decks of plywood. Use of a primer is not required. The membrane is applied by peeling back the siliconized backer 1 to 2 feet (300 to 600 mm) to align the membrane on the lower edge of the roof, and then applying the remainder of the membrane directly to the roof deck by removing the backer and pressing the membrane into place. The WinterGuard Granular and HT membranes, and the MetaLayment must be lapped a minimum of 4 inches (100 mm) on sides and 6 inches (150 mm) on ends. The WinterGuard Sand membranes must be lapped a minimum of 6 inches (150 mm) on both sides and ends. If the membrane becomes misaligned, the roll must be cut and restarted, overlapping the ends a minimum of 6 inches (150 mm).

Installation of the roof covering can proceed immediately following application of the membrane. The membrane must be covered by an approved roof covering as soon as possible. For reroofing application, the same procedures apply after removal of the existing roof covering and roofing felts to expose the roof deck.

4.3 Ice Barrier:

In areas of the roof required to have an ice barrier under IBC Chapter 15 or IRC Chapter 9, a single layer of WinterGuard™ Granular, WinterGuard™ HT, WinterGuard™ Sand or MetaLayment™ must be installed in sufficient courses so that the underlayment extends from the eave's edge up the roof for a minimum distance of 24 inches (610 mm) inside the exterior wall line of the building. The roof underlayment, in the field of the roof, must overlap the ice barrier.

4.4 Classified Roofs:

The roofing underlayments may be used as a component of a classified roof assembly consisting of Class A or Class C glass fiber mat shingles or Class C asphalt organic shingles complying with the applicable code, when installed in accordance with this report over a minimum ¹⁵/₃₂-inch-thick (11.9 mm) plywood deck.

Under the 2012, 2009 and 2006 IBC, the underlayments may be used in Class A roof assemblies that include the roof coverings specified in the exceptions to IBC Section 1505.2. Under the 2006 IBC, the underlayments may be used in Class B roof assemblies that include the roof coverings specified in the exception to Section 1505.3.

Under the 2012 and 2009 IRC, the underlayments may be used in Class A roof assemblies that include the roof coverings specified in the exceptions to Section R902.1. Under the 2006 IRC, the underlayments may be used with the Class A roof assemblies that include the roof coverings specified in Section R902.1.

5.0 CONDITIONS OF USE

The CertainTeed underlayments described in this report comply with, or are suitable alternatives to what is

specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Installation must comply with this report, the applicable code and the manufacturer's published installation instructions. In the event of conflict between the published installation instructions and this report, this report governs.
- 5.2 WinterGuard™ Series underlayments must be limited to use as underlayments or ice barriers for mechanically fastened roof coverings on solidly sheathed plywood or OSB roof decks.
- 5.3 MetaLayment™ must be limited to use as underlayment or ice barrier for mechanically fastened roof coverings on solidly sheathed plywood roof decks.
- 5.4 Installation must be limited to roofs with a slope of 2:12 (16.67%) or greater or to the minimum slope required for the roof covering in accordance with the applicable code, whichever is greater.
- 5.5 Installation must be limited to use with roof coverings that do not involve hot asphalt or coal-tar-pitch.
- 5.6 Installation must be limited to roofs with ventilated attic spaces.
- 5.7 The membranes must be installed only when the ambient air and substrate temperatures at the time of installation are above 40°F (4.4°C).
- 5.8 The products are manufactured at the CertainTeed Corporation's facilities in Little Rock, Arkansas and Shakopee, Minnesota, under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayments (AC188), dated February 2012.
- 6.2 Data in accordance with ICC-ES Acceptance Criteria for Roof Underlayment for Use as Ice Barriers (AC48), dated February 2012.
- 6.3 Test reports in accordance with UL 790 (ASTM E108) for fire classification.
- 6.4 Test report for MetaLayment™ in accordance with ASTM D1970.

7.0 IDENTIFICATION

Each carton of CertainTeed WinterGuard™ Series (WinterGuard™ Granular, WinterGuard™ HT and WinterGuard™ Sand) and MetaLayment™ roof underlayment must be identified with the product trade name, the CertainTeed Corporation name and address, and the evaluation report number (ESR-1492).