



● Compliance with International Codes
● Compliance with State Codes

ICC-ES Evaluation Report

ESR-1492

Reissued January 2022

Revised May 2022

This report is subject to renewal January 2023.

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

REPORT HOLDER:

CERTAINEED LLC

EVALUATION SUBJECT:

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

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2021, 2018, 2015, 2012 and 2009 *International Building Code*® (IBC)
- 2021, 2018, 2015, 2012 and 2009 *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, MetaLayment™, DryRoof SA and WinterGuard Metal Underlayment 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™, DryRoof SA and WinterGuard Metal 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 (1.1 mm).

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 (1.5 mm).

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 (1.5 mm).

3.4 DryRoof SA:

This underlayment is surfaced with sand and is supplied in rolls 36 inches (914 mm) wide, 65 feet (20 m) long, and nominally 45 mils thick (1.1 mm).

3.5 WinterGuard Metal Underlayment:

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 45 mils thick (1.1 mm).

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. The DryRoof SA membrane must be lapped a minimum of 6 inches (152 mm) on both sides and ends. The WinterGuard Metal membrane must be lapped a minimum of 4 inches (101 mm) on sides 6 inches (152 mm) on 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, MetaLayment™, DryRoof SA or WinterGuard Metal Underlayment 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 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 IRC, the underlayments may be used in Class A roof assemblies that include the roof coverings specified in the exceptions to 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 DryRoof SA must be limited to use as underlayment or ice barrier for mechanically fastened roof coverings on solidly sheathed plywood roof decks.
- 5.5 WinterGuard Metal must be limited to use as underlayment or ice barrier for mechanically fastened roof coverings on solidly sheathed plywood roof decks.
- 5.6 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.
- 5.7 Installation must be limited to use with roof coverings that do not involve hot asphalt or coal-tar-pitch.
- 5.8 Installation must be limited to roofs with ventilated attic spaces.
- 5.9 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).
- 5.10 The products are manufactured at facilities located in Little Rock, Arkansas, Shakopee, Minnesota, and Pryor, Oklahoma 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 (editorially revised June 2020).
- 6.2 Data in accordance with ICC-ES Acceptance Criteria for Roof Underlayment for Use as Ice Barriers (AC48), dated February 2012 (editorially revised February 2021).
- 6.3 Test reports in accordance with UL 790 (ASTM E108) for fire classification.
- 6.4 Test reports for MetaLayment™, DryRoof SA and WinterGuard Metal in accordance with ASTM D1970.

7.0 IDENTIFICATION

- 7.1 Each carton of CertainTeed WinterGuard™ Series (WinterGuard™ Granular, WinterGuard™ HT and WinterGuard™ Sand) and MetaLayment™, DryRoof SA and WinterGuard Metal Underlayment roof underlayment must be identified with the product trade name, the CertainTeed LLC name and address, and the evaluation report number (ESR-1492).
- 7.2 The report holder's contact information is the following:

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
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1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that CertainTeed WinterGuard™ Series Roof Underlayment products, WinterGuard™ Granular, WinterGuard™ HT, WinterGuard™ Sand, MetaLayment™, DryRoof SA and WinterGuard Metal described in ICC-ES evaluation report ESR-1492, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2019 *California Building Code*® (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2019 *California Residential Code*® (CRC)

2.0 CONCLUSIONS**2.1 CBC:**

The CertainTeed WinterGuard™ Series Roof Underlayment products: WinterGuard™ Granular, WinterGuard™ HT, WinterGuard™ Sand, MetaLayment™, DryRoof SA and WinterGuard Metal described in Sections 2.0 through 7.0 of the evaluation report ESR-1492, comply with CBC Chapter 15, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report ESR-1492 and the additional requirements of CBC Chapter 15, as applicable.

2.1.1 OSHPD: The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA: The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The CertainTeed WinterGuard™ Series Roof Underlayment products: WinterGuard™ Granular, WinterGuard™ HT, WinterGuard™ Sand and MetaLayment™, DryRoof SA and WinterGuard Metal described in Sections 2.0 through 7.0 of the evaluation report ESR-1492, comply with CRC Chapter 9, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report ESR-1492.

This evaluation report supplement expires concurrently with the evaluation report ESR-1492, reissued January 2022 and revised May 2022.