Code Compliance Research Report
CCRR-0439

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

REPORT HOLDER:
Continental Materials Inc.
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REPORT SUBJECT:
CMI SecureGrip SG-PRO, CMI SecureGrip SG-30, CMI SecureGrip SG-Plus, Craft Grade W20, X-Weather Warrior Pro, X-Weather Warrior, CMI Ranger Pro, TopShield SG-30, CMI SG-Max™, and CMI SecureGrip MTS Synthetic Roofing Underlayments

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2024, 2021, and 2018 *International Building Code®* (IBC)
- 2024, 2021, and 2018 *International Residential Code®* (IRC)
- 2023 *Florida Building Code* (FBC) (including HVHZ)

1.2 The underlayments have been evaluated for the following properties (see Table 1):

- Physical properties
- Ice barrier

1.3 The underlayments have been evaluated for the following uses:

- Under the 2024 IBC and IRC, the underlayment may be used in the field or roofs where ASTM D8257 compliant underlayments are required as specified in IBC Chapter 15 and IRC Chapter 9.
- Under the 2021 and 2018 Codes, the underlayment may be used as an alternative to the ASTM D226, Type I and Type II, roofing underlayments specified in IBC Chapter 15 and IRC Chapter 9.In areas of the roof required by IBC Section 1507 or IRC Section R905 to have an ice barrier as described in Section 4.1 of this report.
- Use is limited to buildings permitted to have non-classified roofing in accordance with IBC Section 1505.5.

2.0 STATEMENT OF COMPLIANCE

CMI SecureGrip SG-PRO, CMI SecureGrip SG-30, CMI SecureGrip SG-Plus, Craft Grade W20, X-Weather Warrior Pro, X-Weather Warrior, CMI Ranger Pro, TopShield SG-30, and CMI SG-Max™ Synthetic Roofing Underlayments 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

CMI SecureGrip SG-PRO is a four-layered roofing underlayment consisting of a non-woven polypropylene scrim bonded to a woven polypropylene scrim and coated on both sides. The synthetic roofing underlayment has a nominal weight of 2.0 lbs/100ft^2 and is available in black color. The synthetic roofing underlayment is available in roll widths up to 4 feet at varying lengths. CMI SecureGrip SG-PRO is also labeled as CMI Ranger Pro and TopShield SG-30.

CMI SecureGrip SG-30 is a four-layered roofing underlayment consisting of a non-woven polypropylene scrim bonded to a woven polypropylene scrim and coated on both sides. The synthetic roofing underlayment has a nominal weight of 2.4 lbs/100ft^2 and is available in grey color. The synthetic roofing underlayment is available in roll widths up to 4 feet at varying lengths.

CMI SecureGrip SG-PLUS is a four-layered roofing underlayment consisting of a non-woven polypropylene scrim bonded to a woven polypropylene scrim and coated on both sides. The synthetic roofing underlayment has a nominal weight of 2.9 lbs/100ft^2 and is available in grey

color. The synthetic roofing underlayment is available in roll widths up to 4 feet at varying lengths.

Craft Grade W20 is a four-layered roofing underlayment consisting of a non-woven polypropylene scrim bonded to a woven polypropylene scrim and coated on both sides. The synthetic roofing underlayment has a nominal weight of 1.7 lbs/100ft^2. The synthetic roofing underlayment is available in roll widths up to 4 feet at varying lengths. Craft Grade W20 is also labeled as X-Weather Warrior Pro and X-Weather Warrior.

CMI SG-Max™ is a four-layered roofing underlayment consisting of a non-woven polypropylene scrim bonded to a woven polypropylene scrim and coated on both sides. The synthetic roofing underlayment has a nominal weight of 3.6 lbs/100ft^2. The synthetic roofing underlayment is available in roll widths up to 4 feet at varying lengths. CMI SG-Max™ is also labeled as CMI SecureGrip MTS.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Ice Barrier: In areas of the roof required by IBC Section 1507.1.2 or IRC Section R905.1.2 to have an ice barrier, two layers of the roofing underlayment solidly cemented together may be used provided the ice barrier extends up the roof a minimum distance of 24 inches inside the exterior wall line of the building.

4.2 Vapor Permeability: CMI SecureGrip SG-PRO, CMI SecureGrip SG-30, CMI SecureGrip SG-Plus, Craft Grade W20, X-Weather Warrior Pro, X-Weather Warrior, CMI Ranger Pro, TopShield SG-30, CMI SG-Max™, and CMI SecureGrip MTS Synthetic Roofing Underlayments have a permeance of 0.17 perms, based on testing in accordance with ASTM E96.

5.0 INSTALLATION

5.1 General:

CMI SecureGrip SG-PRO, CMI SecureGrip SG-30, CMI SecureGrip SG-Plus, Craft Grade W20, X-Weather Warrior Pro, X-Weather Warrior, CMI Ranger Pro, TopShield SG-30, CMI SG-Max™, and CMI SecureGrip MTS Synthetic Roofing Underlayments 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.

The underlayment may be installed with the roof coverings specified in IBC Table 1507.1.1(1) and IRC Table R905.1.1(1), where ASTM D8257-compliant underlayments are permitted. The underlayment must be installed in accordance with IBC Table 1507.1.1(2) and IRC Table R905.1.1(2) and fastened in accordance with IBC Table 1507.1.1(3) and IRC Table R905.1.1(3). The underlayment must be laid with the print side up, with laps as required by the applicable Code, evaluation report, or manufacturer's instructions, whichever is more restrictive.

The roof covering may be installed immediately following the underlayment application and the underlayment must be covered within the time designated in the company name's published installation instructions.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 Installation is limited to use with approved mechanically attached roof covering systems.

6.3 Installation is limited to roof systems that do not involve hot asphalt or coal-tar pitch.

6.4 Installation is limited to roofs with slope of 2:12 (17%) or greater.

6.5 Attic ventilation must be provided in accordance with the applicable Code since there are no requirements to evaluate vapor permeability of the underlayment.

6.6 The underlayments are limited to buildings permitted to have non-classified roofing in accordance with IBC Section 1505.5, unless the underlayment is specifically recognized as a component of a classified roofing assembly in a listing approved by the Code official.

6.7 The underlayments are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Data in accordance with the ICC-ES Acceptance Criteria for Roof Underlayment (AC188), dated February 2012 (editorially revised December 2015).

7.2 Reports of tests in accordance with ASTM D8257.

7.3 Intertek Listing Report "Continental Materials, Inc. – CMI Synthetic Roofing Underlayments", on the Intertek Directory of Building Products.

8.0 IDENTIFICATION

The roofing underlayments are identified with the manufacturer's name, address and telephone number, the product name (CMI SecureGrip SG-PRO, CMI SecureGrip SG-30, CMI SecureGrip SG-Plus, Craft Grade W20, X-Weather Warrior Pro, X-Weather Warrior, CMI Ranger Pro, TopShield SG-30, CMI SG-Max™, CMI SecureGrip MTS), the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-0439).

9.0 OTHER CODES

9.1 FLORIDA BUILDING CODE

CMI SecureGrip SG-PRO, CMI SecureGrip SG-30, CMI SecureGrip SG-Plus, Craft Grade W20, X-Weather Warrior Pro, X-Weather Warrior, CMI Ranger Pro, TopShield SG-30, CMI SG-Max™, and CMI SecureGrip MTS Synthetic Roofing Underlayments, as described in Sections 2.0 through 7.0 of this Research Report, complies with the Florida Building Code – Building and Florida Building Code – Residential, for the editions indicated in Section 1.1 of this report, subject to the following conditions:

9.1.1 For use outside HVHZ, the underlayment may be installed with the roof coverings specified in FBC (Building) Table 1507.1.1.1 and FBC (Residential) Table R905.1.1.1, where ASTM D8257-compliant underlayments are permitted. The underlayment must be installed in accordance with the provisions of FBC (Building) Section 1507 and FBC (Residential) R905.

9.1.2 For use inside HVHZ, the underlayment may be installed with the roof coverings specified in FBC (Building) Table 1518.2.1, where ASTM D8257-compliant underlayments are permitted. The underlayment must be installed in accordance with the provisions of FBC (Building) Section 1518. Evaluation for use with discontinuous roof tile systems in HVHZ is outside the scope of this report

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	2024 IBC SECTION[1]	2021 IRC SECTION[1]	2023 FBC - Building	2023 FBC - Residential
Physical Properties	1506 and 1507	R904 and R905	1507 and 1518.2	R904 and R905
Ice Barrier	1507.1.2	R905.1.2	N/A	N/A

[1] Section numbers may be different for earlier versions of the International Codes

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