NEMO EVALUATION REPORT (NER)

Continental Materials, Inc.
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SUBJECT:	**SecureGrip™ Ice and Water Self-Adhered Roof Underlayments**
SCOPE:	This NEMO Evaluation Report (henceforth 'NER') is issued under F.A.C. Rule 61G20-3 and the applicable rules and regulations governing Product Approval of construction materials in the State of Florida and ISO/IEC 17065 via NEMO|cert. NEMO Evaluations has evaluated the product described herein for compliance with the Code sections noted herein.
CODE:	2021 International Building Code 2021 International Residential Code 2023 Florida Building Code, 8th Edition 2023 Florida Building Code, Residential, 8th Edition
FBC JURISDICTION:	Non-HVHZ and HVHZ
NEMO CATEGORY:	Steep Slope
FBC CATEGORY:	Roofing
FBC SUB-CATEGORY:	Underlayment
CSI DIVISION:	07 00 00 Thermal and Moisture Protection 07 30 05 Roofing Felt and Underlayment
METHOD:	Method 1, Option C – Codified Material, Evaluation by Evaluation Entity
COMPLIANCE STATEMENT:	**SecureGrip™ Ice and Water Self-Adhered Roof Underlayments**, as produced by **Continental Materials, Inc.**, have demonstrated compliance with the Code sections noted herein through testing in accordance with the referenced Standards, rational analysis and an ongoing quality assurance program. Compliance is subject to the Installation Requirements and Limitations of Use set forth herein.
QUALITY ASSURANCE:	Evidence of current quality assurance shall be listing and labeling in accordance with the requirements of NEMO|cert.
CONTINUED COMPLIANCE:	This NER is valid until such time the named product(s) change, the referenced Quality Assurance changes, or the evaluated Code provisions change. NEMO Evaluations require, at minimum, a complete review of this NER with each 3-year Code Cycle.
BUILDING PERMIT REQUIREMENTS:	As required by the Building Official or Authority Having Jurisdiction to evaluate the installation of this product.
ADVERTISEMENT:	"NEMO Evaluated" may be displayed in advertising literature. If any portion of the NER is displayed, it shall be displayed in its entirety.
CERTIFICATION OF INDEPENDENCE:	✓ NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates. ✓ NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates. ✓ This is a building code evaluation. NEMO ETC, LLC is not, in any way, the Designer of Record for any project on which this NER, or previous versions thereof, is/was used for permitting or design guidance.

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1. CODES, PROPERTIES AND STANDARDS:

CODE	SECTION	PROPERTY	STANDARD
2021 International Building Code	1507.1.1, 1507.2.8.2, 1507.3.9, 1507.5.7, 1507.8.8, 1507.9.9	Material standard	ASTM D1970
2021 International Residential Code	R905.1.1, R905.2.8.2	Material standard	ASTM D1970
2023 Florida Building Code, 8th Edition	1507.1.1, 1507.2.9.2, 1507.2.9.3, 1518.2, TAS 110	Material standard	ASTM D1970
2023 Florida Building Code, Residential, 8th Edition	R905.1.1, R905.2.8.2, R905.2.8.5	Material standard	ASTM D1970

2. PRODUCTS:

TABLE 1: EVALUATED UNDERLAYMENTS

PRODUCT	MATERIAL STANDARD	MFG LOCATION(S)[1]	DESCRIPTION
SecureGrip Ice and Water	ASTM D1970	ML1	Self-adhering, fiberglass reinforced, granule-surfaced, SBS modified bitumen roof underlayment

3. INSTALLATION:

3.1 **SecureGrip™ Ice and Water Self-Adhered Roof Underlayments** shall be installed in accordance with **Continental Materials, Inc.** published installation instructions, subject to the Limitations of Use noted herein. In case of conflict between published installation instructions and this NER, this report governs.

3.2 Roof decks shall be in accordance with codified requirements to the satisfaction of the Authority Having Jurisdiction. Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application, and prime the substrate (if applicable).

3.3 **SecureGrip Ice and Water:**

3.3.1 **IBC, IRC, FBC and FBC Residential:**

3.3.1.1 Shall be installed in compliance with requirements for an approved self-adhering underlayment (ASTM D1970) in IBC 1507.1.1, IRC R905.1.1, FBC 1507.1.1.1 or FBC Residential R905.1.1.1 for the type of prepared roof covering to be installed, and the manufacturer's installation instructions.

3.3.1.2 When installed over a mechanically attached base sheet of Approved ASTM D226 felt or ASTM D4869 felt, the base sheet shall be fastened in accordance with IBC 1507.1.1, IRC R905.1.1, FBC 1507.1.1.1 or FBC Residential R905.1.1.1.

3.3.1.3 May be used as an ice barrier in accordance with IBC 1507.1.2 or IRC R905.1.2.

3.3.1.4 May be used as a valley lining material in a closed valley condition or a valley flashing material in accordance with IBC Chapter 15, IRC Chapter 9, FBC Chapter 15 or FBC Residential Chapter 9.

3.3.2 **FBC HVHZ Jurisdictions:** Prescriptive codified minimum attachment

3.3.2.1

DECK TYPE 1:	Wood, Non-Insulated
DECK DESCRIPTION:	Min. 19/32-inch plywood
SYSTEM TYPE E-1:	Self-adhering strips to plywood joints; underlayment mechanically fastened to deck
SECONDARY WATER BARRIER:	Min. 3¾-inch wide strips of **SecureGrip Ice and Water** self-adhered over joints of the plywood roof deck prior to installation of subsequent layer(s) in accordance with FBC HVHZ 1518.2.1(2). Do not overlap end-joints or T-joints. All end-joints and T-joints shall be butted firmly side by side, flush with each other but not overlapped.
UNDERLAYMENT:	FBC HVHZ Approved, mechanically attached underlayment in accordance with FBC HVHZ Table 1518.2.1.
SURFACING:	FBC HVHZ Approved metal shingles, slate, slate type shingles, wood shingles or wood shakes.

[1] *Building officials, Designers of Record and other Authorities Having Jurisdiction may contact info@nemoetc.com to obtain manufacturing location information for products evaluated herein.*

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3.3.2.2	DECK TYPE 1:	Wood, Non-Insulated
	DECK DESCRIPTION:	Min. 19/32-inch plywood
	SYSTEM TYPE E-2:	Optional self-adhering strips to plywood joints; base sheet mechanically fastened to deck; underlayment adhered to base sheet
	SECONDARY WATER BARRIER:	(Optional) Min. 3¾-inch wide strips of **SecureGrip Ice and Water** self-adhered over joints of the plywood roof deck prior to installation of subsequent layer(s) in accordance with FBC HVHZ 1518.2.1(2). Do not overlap end-joints or T-joints. All end-joints and T-joints shall be butted firmly side by side, flush with each other but not overlapped.
	BASE SHEET:	FBC HVHZ Approved, ASTM D226, Type II felt or ASTM D4869, Type III or IV felt in accordance with FBC HVHZ Table 1518.2.1.
	FASTENING:	Grid pattern of 12-inches between the overlaps, with 6-inch spacing at the overlaps, in accordance with FBC HVHZ Table 1518.2.1.
	UNDERLAYMENT:	**SecureGrip Ice and Water**, self-adhered
	SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles.

3.3.2.2	DECK TYPE 1:	Wood, Non-Insulated
	DECK DESCRIPTION:	Min. 19/32-inch plywood
	SYSTEM TYPE F:	Underlayment adhered to deck
	UNDERLAYMENT:	**SecureGrip Ice and Water**, self-adhered
	SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles.

4. LIMITATIONS OF USE:

4.1 This is a building code evaluation. NEMO ETC, LLC is not, in any way, the Designer of Record for any project on which this NER, or previous versions thereof, is/was used for permitting or design guidance. NERs are not to be construed as representing any attributes not specifically listed, nor are NERs to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by NEMO ETC, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

4.2 This NER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.

4.3 This NER does not include evaluation of fire classification. Refer to IBC 1505, IRC R902, FBC 1505 or FBC Residential R902 for requirements and limitations regarding roof assembly fire classification.

4.4 **SecureGrip™ Ice and Water Self-Adhered Roof Underlayments** are limited to roofs with ventilated attic spaces in accordance with the requirement of the applicable Code.

4.5 Installation of **SecureGrip™ Ice and Water Self-Adhered Roof Underlayments** is limited to when the ambient air and substrate temperatures are at or above 40°F.

4.6 **SecureGrip™ Ice and Water Self-Adhered Roof Underlayments** may be used with any prepared roof cover where the product is specifically referenced within the prepared roof cover's Approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this NER combined with supporting data for the prepared roof covering.

4.7 **Allowable Roof Covers:**
Table 2 lists the roof cover types that are permissible with SecureGrip™ Ice and Water Self-Adhered Roof Underlayments, subject to fire classification documentation set forth in Section 4.3 herein (if applicable).

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TABLE 2A: ROOF COVER OPTIONS, IBC/IRC					
UNDERLAYMENT	ROOF COVER	IBC SECTION(S)		IRC SECTION(S)	
		SECTION	ALLOWABLE USE[2]	SECTION	ALLOWABLE USE[3]
SecureGrip Ice and Water	Asphalt Shingles	1507.2	Yes	R905.2	Yes
	Roof Tile	1507.3	Yes (mechanically fastened tile only)	R905.3	Yes (mechanically fastened tile only)
	Metal Shingles or Panels	1507.4, 1507.5	Yes	R905.4, R905.10	Yes
	Slate or Slate-Type Shingles	1507.7	Yes	R905.6	Yes
	Wood Shingles or Shakes	1507.8, 1507.9	Yes	R905.7, R905.8	Yes

TABLE 2B: ROOF COVER OPTIONS, FBC					
UNDERLAYMENT	ROOF COVER	FBC SECTION(S)		FBC HVHZ SECTIONS	
		SECTION	ALLOWABLE USE	SECTION	ALLOWABLE USE
SecureGrip Ice and Water	Asphalt Shingles	1507.2, R905.2	Yes	*RAS 115, 1518.2.1*	Yes
	Roof Tile	1507.3, R905.3	No	*RAS 118, RAS 119 or RAS 120*	No
	Metal Shingles or Panels	1507.4, 1507.5, R905.4, R905.10	Yes	*RAS 133, 1518.2.1*	Yes
	Slate or Slate-Type Shingles	1507.7, R905.6	Yes	*1518.2.1*	Yes
	Wood Shingles or Shakes	1507.8, 1507.9, R905.7, R905.8	Yes[4]	*RAS 130, 1518.10*	Yes *(per RAS 130)*

4.8 **Allowable Substrates:**

TABLE 3: SUBSTRATE OPTIONS FOR ADHERED UNDERLAYMENTS				
UNDERLAYMENT	APPLICATION	SUBSTRATES (DESIGNED TO MEET WIND LOADS FOR PROJECT)		
		TYPE	PRIMER	MATERIAL(S)
SecureGrip Ice and Water	self-adhering	Deck / sheathing	(Optional) ASTM D41	Plywood

4.9 **Attachment Limitations:**

4.9.1 For use under the IBC, IRC, FBC and FBC Residential, attachment shall be in accordance with the manufacturer's installation instructions. For use over mechanically attached base sheets, the base sheet attachment shall be not less than IBC 1507.1.1, IRC R905.1.1, FBC 1507.1.1.1 or FBC Residential R905.1.1.1.

4.9.2 For use under the FBC HVHZ, refer to Section 3.3.2 herein.

4.10 **Exposure Limitations:**

For use under the FBC, the maximum exposure duration set forth in Table 4 shall not be exceeded.

TABLE 4: EXPOSURE LIMITATIONS	
UNDERLAYMENT	MAXIMUM EXPOSURE (DAYS)
SecureGrip Ice and Water	30

4.11 For use under the FBC, all components in the roof assembly shall have quality assurance audit in accordance with **F.A.C.** Rule 61G20-3. Refer to the Product Approval of the component manufacturer for components mentioned herein that are produced by a Product Manufacturer other than this report holder.

- END OF NER -

[2] *For the **IBC**, product is used as min. 4-inch wide joint-strips per IBC 1507.1.1(1) or installed in full-coverage atop ASTM D226 felt or ASTM D4869 felt installed in accordance with IBC Tables 1507.1.1(2) and 1507.1.1(3).*

[3] *For the **IRC**, product is used in full-coverage in accordance with IRC R905.1.1(1), or as min. 4-inch wide joint-strips per IRC R905.1.1(2) or installed in full-coverage atop ASTM D226 felt or ASTM D4869 felt installed in accordance with IRC Tables R905.1.1(2) and R905.1.1(3).*

[4] *For the **FBC** and use with wood shakes and shingles, product is used as min. 3 ¾-inch wide joint-strips per FBC 1507.1.1.1(2) / FBC R905.1.1.1(2) or installed in full-coverage atop ASTM D226, Type II felt or ASTM D4869 Type III or IV felt mechanically attached in accordance with FBC Table 1507.1.1.1 or FBC Residential Table R905.1.1.1*

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