NEMO|etc.
Certificate of Authorization #32455
353 Christian Street, Unit #13
Oxford, CT 06478
(203) 262-9245

ENGINEER EVALUATE TEST CONSULT

P.E. EVALUATION REPORT (PEER)

Continental Materials, Inc.
1614 Old York Road
Abington, PA 19001
(800) 247-6637

PEER-ACTCMI-001.B.R2
FL42148-R2 (HVHZ)
Date of Issuance: 06/26/2023
Revision 2: 12/08/2023

SCOPE:
This P.E. Evaluation Report (henceforth 'PEER') is issued under **Rule 61G20-3**and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The products described herein have been evaluated for compliance with the **8th Edition (2023) Florida Building Code, High Velocity Hurricane Zone** sections noted herein.

DESCRIPTION: Synthetic Roof Underlayments by Continental Materials (HVHZ)

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and **FBC 1518.2**.

CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be done in its entirety.

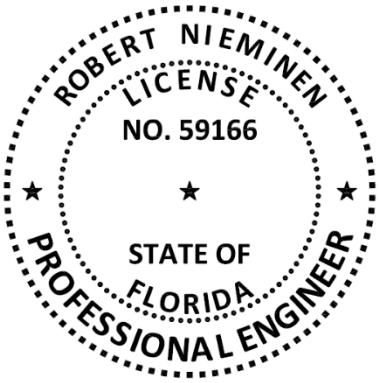
INSPECTION: Upon request, a copy of this entire PEER shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This PEER consists of pages 1 through 7.

Prepared by:

Digitally signed by Robert Nieminen
Date: 2023.12.08 '11:01:15 -05'00

This item has been digitally signed and sealed by Robert Nieminen, P.E.
Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.
Robert Nieminen, Florida P.E. 59166, FBC ANE1983
NEMO ETC, LLC, Florida CA #32455



CERTIFICATION OF INDEPENDENCE:
1. 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.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the PEERs are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: **Synthetic Roof Underlayments**, as produced by **Continental Materials, Inc.**, have demonstrated compliance with the following sections of the **8th Edition (2023) Florida Building Code, High Velocity Hurricane Zone** through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations of Use set forth herein.

2. STANDARDS:

SECTION	PROPERTY	STANDARD
TAS 110, 1518.2	Material standard	ASTM D8257
TAS 110, 1518.2	Material standard	ASTM D1970
TAS 110	Accelerated Weathering	ASTM D4798

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
NEMO	PEER	PEER-ACT-001.B-R2	10/02/2023
NEMO	Traceability	SPE	11/28/2023
ICC NTA (QUA3504)	Quality Assurance	Inspection Report (ML1)	05/25/2023
ICC NTA (QUA3504)	Quality Assurance	Inspection Report (ML3)	06/12/2023
ICC NTA (QUA3504)	Quality Assurance	Inspection Report (ML2)	07/20/2023
ICC NTA (QUA3504)	Quality Assurance	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

TABLE 1: EVALUATED UNDERLAYMENTS

PRODUCT	MATERIAL STANDARD	PLANT(S)[i]	DESCRIPTION
CMI Ranger 30 Synthetic Underlayment	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs/square.
CMI Ranger Pro Synthetic Underlayment	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs/square.
Craft Grade Synthetic Underlayment by TopShield	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs/square.
Gulfeagle Supply SG 30 Synthetic Underlayment	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs/square.
SecureGrip 30 Synthetic Underlayment	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs/square.

TABLE 1: EVALUATED UNDERLAYMENTS			
PRODUCT	**MATERIAL STANDARD**	**PLANT(S)[i]**	**DESCRIPTION**
SecureGrip Pro Synthetic Underlayment	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs/square.
SecureGrip SG-30	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs/square.
Topshield 30	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs/square.
TopShield SG 30 Synthetic Underlayment by SRS Corp	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs/square.
Xtreme Weather Warrior Synthetic Underlayment	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 2.25 lbs/square.
Securegrip MAX-MTS	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 3.80 lbs/square.
SecureGrip MAX Synthetic Underlayment	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 3.80 lbs/square.
SecureGrip MTS Synthetic Underlayment	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 3.80 lbs/square.
SecureGrip Plus Synthetic Underlayment	ASTM D8257[ii]	ML1	Synthetic polymer-based scrim-reinforced underlayment, consisting of woven polyolefin base with a layer of nonwoven polyolefin sheet and a polymer coating on the back side, with a nominal unit weight of 3.40 lbs/square.
SecureGrip PS Max 2 HT	ASTM D1970[iii]	ML2	Nominal 50-mil, self-adhering, multi-layered roof underlayment composed of a synthetic top facer bonded to a polymer modified bituminous layer and release film
SecureGrip PS Max 100 HT	ASTM D1970[iii]	ML3	Nominal 40-mil, self-adhering, multi-layered roof underlayment composed of a synthetic top facer bonded to a polymer modified bituminous layer and release film

5. LIMITATIONS:

5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.

5.2 This PEER is exclusively for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).

5.3 This PEER 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.

5.4 This PEER does not include evaluation of fire classification. Refer to **FBC HVHZ 1516** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

5.5 **Synthetic Roof Underlayments by Continental Materials** may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this PEER combined with supporting data for the prepared roof covering.

5.6 **Allowable Roof Covers:**

TABLE 2: ROOF COVER OPTIONS

FBC HVHZ:	*RAS 115, 1518.2.1*	*RAS 118, 119 & 120*		*RAS 133, 1518.2.1*	*1518.2.1*	*RAS 130, 1518.10*
UNDERLAYMENT	ASPHALT SHINGLES	CLAY AND CONCRETE TILE		METAL PANELS OR SHINGLES	SLATE OR SLATE-TYPE SHINGLES	WOOD SHINGLES OR SHAKES
		MECH. ATTACH	ADHESIVE-SET			
CMI Ranger 30 Synthetic Underlayment	Yes	No	No	Yes (residential)	Yes	Yes
CMI Ranger Pro Synthetic Underlayment	Yes	No	No	Yes (residential)	Yes	Yes
Craft Grade Synthetic Underlayment by TopShield	Yes	No	No	Yes (residential)	Yes	Yes
Gulfeagle Supply SG 30 Synthetic Underlayment	Yes	No	No	Yes (residential)	Yes	Yes
SecureGrip 30 Synthetic Underlayment	Yes	No	No	Yes (residential)	Yes	Yes
SecureGrip Pro Synthetic Underlayment	Yes	No	No	Yes (residential)	Yes	Yes
SecureGrip SG-30	Yes	No	No	Yes (residential)	Yes	Yes
Topshield 30	Yes	No	No	Yes (residential)	Yes	No
TopShield SG 30 Synthetic Underlayment by SRS Corp	Yes	No	No	Yes (residential)	Yes	No
Xtreme Weather Warrior Synthetic Underlayment	Yes	No	No	Yes (residential)	Yes	No
Securegrip MAX-MTS	Yes	No	No	Yes	Yes	Yes
SecureGrip MAX Synthetic Underlayment	Yes	No	No	Yes	Yes	Yes

TABLE 2: ROOF COVER OPTIONS						
FBC HVHZ:	RAS 115, 1518.2.1	RAS 118, 119 & 120		RAS 133, 1518.2.1	1518.2.1	RAS 130, 1518.10
UNDERLAYMENT	ASPHALT SHINGLES	CLAY AND CONCRETE TILE		METAL PANELS OR SHINGLES	SLATE OR SLATE-TYPE SHINGLES	WOOD SHINGLES OR SHAKES
		MECH. ATTACH	ADHESIVE-SET			
SecureGrip MTS Synthetic Underlayment	Yes	No	No	Yes	Yes	Yes
SecureGrip Plus Synthetic Underlayment	Yes	No	No	Yes	Yes	Yes
SecureGrip PS Max 2 HT	Yes	No	No	Yes	Yes	Yes (per RAS 130)
SecureGrip PS Max 100 HT	Yes	No	No	Yes	Yes	Yes (per RAS 130)

5.6.1 In addition to the codified roof cover options noted above, allowable roof covers include synthetic or composite shingles, slate or shakes holding current Florida HVHZ Product Approval or Miami-Dade NOA.

5.7 **Allowable Substrates:**

TABLE 3: ALLOWABLE SUBSTRATE OPTIONS FOR ADHERED UNDERLAYMENTS				
UNDERLAYMENT	APPLICATION	SUBSTRATES (DESIGNED TO MEET CODE)		
		TYPE	PRIMER	MATERIAL(S)
SecureGrip PS Max 2 HT	self-adhering	Deck / sheathing	(Optional) ASTM D41	Plywood
		Base Sheet	None	ASTM D226, Type II felt
		Base Ply	None	SecureGrip PS Max 100 HT
SecureGrip PS Max 100 HT	self-adhering	Deck / sheathing	(Optional) ASTM D41	Plywood
		Base Sheet	None	ASTM D226, Type II felt

5.8 **Attachment Limitations:**

5.8.1 Refer to Section 6 for codified prescriptive systems.

5.9 **Exposure Limitations:**

TABLE 4: EXPOSURE LIMITATIONS		
UNDERLAYMENT	PREPARED ROOF COVER INSTALLATION TYPE	MAXIMUM EXPOSURE (DAYS)
CMI Ranger 30 Synthetic Underlayment, CMI Ranger Pro Synthetic Underlayment, Craft Grade Synthetic Underlayment by TopShield, Gulfeagle Supply SG 30 Synthetic Underlayment, SecureGrip 30 Synthetic Underlayment, SecureGrip Pro Synthetic Underlayment, SecureGrip SG-30, Topshield 30, TopShield SG 30 Synthetic Underlayment by SRS Corp, Xtreme Weather Warrior Synthetic Underlayment, Securegrip MAX-MTS, SecureGrip MAX Synthetic Underlayment, SecureGrip MTS Synthetic Underlayment or SecureGrip Plus Synthetic Underlayment	Mechanically attached	90
SecureGrip PS Max 2 HT	Any type (per Table 2)	90
SecureGrip PS Max 100 HT	Mechanically attached	90

5.10 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 the report holder on Page 1 of this PEER.

6. INSTALLATION:

6.1 **Synthetic Roof Underlayments by Continental Materials** shall be installed in accordance with **Continental Materials, Inc.** installation instructions subject to the Limitations of Use herein and the specifics noted below.

6.1.1 Consult Continental Materials' requirements for back-nailing at pitch of 2:12 or greater.

6.2 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).

6.3 Refer to Section 6.4 for underlayments having prescriptive codified minimum attachment.

6.4 **Assemblies with Prescriptive Minimum Attachment:**

6.4.1

DECK TYPE 1:	Wood, Non-Insulated
DECK DESCRIPTION:	Min. 19/32-inch plywood or wood plank
SYSTEM TYPE E-1:	Underlayment mechanically fastened to deck
UNDERLAYMENT:	Two (2) layers of CMI Ranger 30 Synthetic Underlayment, CMI Ranger Pro Synthetic Underlayment, Craft Grade Synthetic Underlayment by TopShield, Gulfeagle Supply SG 30 Synthetic Underlayment, SecureGrip 30 Synthetic Underlayment, SecureGrip Pro Synthetic Underlayment, SecureGrip SG-30, Topshield 30, TopShield SG 30 Synthetic Underlayment by SRS Corp, Xtreme Weather Warrior Synthetic Underlayment, Securegrip MAX-MTS, SecureGrip MAX Synthetic Underlayment, SecureGrip MTS Synthetic Underlayment or SecureGrip Plus Synthetic Underlayment in accordance with FBC HVHZ 1518.2.1(3).
FASTENING:	Grid pattern of 12-inches between the overlaps, with 6-inch spacing at the overlaps, in accordance with FBC HVHZ 1518.2.1(3):
SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles.

6.4.2

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 PS Max 2 HT or SecureGrip PS Max 100 HT 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:	CMI Ranger 30 Synthetic Underlayment, CMI Ranger Pro Synthetic Underlayment, Craft Grade Synthetic Underlayment by TopShield, Gulfeagle Supply SG 30 Synthetic Underlayment, SecureGrip 30 Synthetic Underlayment, SecureGrip Pro Synthetic Underlayment, SecureGrip SG-30, Topshield 30, TopShield SG 30 Synthetic Underlayment by SRS Corp, Xtreme Weather Warrior Synthetic Underlayment, Securegrip MAX-MTS, SecureGrip MAX Synthetic Underlayment, SecureGrip MTS Synthetic Underlayment or SecureGrip Plus Synthetic Underlayment 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.
SURFACING:	FBC HVHZ Approved metal shingles, slate, slate type shingles, wood shingles or wood shakes.

6.4.3	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; optional base ply adhered to base sheet; underlayment adhered to base ply or base sheet
	SECONDARY WATER BARRIER:	(Optional) Min. 3¾-inch wide strips of SecureGrip PS Max 2 HT or SecureGrip PS Max 100 HT 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.
	BASE PLY:	(Optional) SecureGrip PS Max 100 HT, self-adhered
	UNDERLAYMENT:	SecureGrip PS Max 2 HT or SecureGrip PS Max 100 HT, self-adhered
	SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles.

6.4.4	DECK TYPE 1:	Wood, Non-Insulated
	DECK DESCRIPTION:	Min. 19/32-inch plywood
	SYSTEM TYPE F:	Optional base ply adhered to deck; underlayment adhered to base ply or deck
	BASE PLY:	(Optional) SecureGrip PS Max 100 HT, self-adhered
	UNDERLAYMENT:	SecureGrip PS Max 2 HT or SecureGrip PS Max 100 HT, self-adhered in accordance with FBC HVHZ 1518.2.1(1).
	SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by **F.A.C. Rule 61G20-3** QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

9. QUALITY ASSURANCE ENTITY:

ICC-NTA (QUA3504), (574) 773-7975, vbrown@icc-nta.org

- END OF PEER -

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

[ii] *Agreement between purchaser and seller, as set forth in Section 4.3, Note 1 of ASTM D8257-20, should be established as to slip resistance.*

[iii] *Agreement between purchaser and seller, as set forth in Section 4.3, Note 1 of ASTM D1970-17, should be established as to slip resistance.*