



**NEMO|etc.**

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ENGINEER

TEST

CONSULT

**P.E. EVALUATION REPORT (PEER)**

**Continental Materials, Inc.**

1614 Old York Road  
Abington, PA 19001  
**(800) 247-6637**

**PEER-CMI-001.B.R4**

**FL42148-R4 (HVHZ)**

Date of Issuance: 06/26/2023

**Revision 4: 06/24/2024**

**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 **8<sup>th</sup> 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](#).

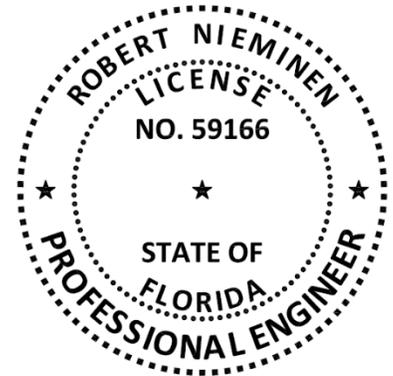
**CONTINUED COMPLIANCE:** This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify 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 8.

**Prepared by:**



**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 **8<sup>th</sup> 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.R5	06/17/2024
NEMO	Traceability	SPE	04/04/2024
ICC NTA (QUA3504)	Quality Assurance	Inspection Report (ML10060)	05/25/2023
ICC NTA (QUA3504)	Quality Assurance	Inspection Report (ML10061)	06/12/2023
ICC NTA (QUA3504)	Quality Assurance	Inspection Report (ML10062)	07/20/2023
ICC NTA (QUA3504)	Quality Assurance	Florida BCIS	Current

**4. PRODUCT DESCRIPTION:**

TABLE 1: EVALUATED UNDERLAYMENTS			
PRODUCT	MATERIAL STANDARD	PLANT(S) <sup>1</sup>	DESCRIPTION
CMI Ranger 30 Synthetic Underlayment	ASTM D8257 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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.

<sup>1</sup> Building officials, Designers of Record and other Authorities Having Jurisdiction may contact [info@nemoetc.com](mailto:info@nemoetc.com) to obtain manufacturing location information for products evaluated herein.

<sup>2</sup> 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.

**TABLE 1: EVALUATED UNDERLAYMENTS**

PRODUCT	MATERIAL STANDARD	PLANT(S) <sup>1</sup>	DESCRIPTION
SecureGrip Pro Synthetic Underlayment	ASTM D8257 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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 <sup>2</sup>	ML10060	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 <sup>3</sup>	ML10062	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
TopShield® PS/MAX HT 2.0	ASTM D1970 <sup>3</sup>	ML10062	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 <sup>3</sup>	ML10061	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

<sup>3</sup> 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.

**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						
<i>FBC HVHZ:</i>	<i>RAS 115, 1518.2.1</i>	<i>RAS 118, 119 &amp; 120</i>		<i>RAS 133, 1518.2.1</i>	<i>1518.2.1</i>	<i>RAS 130, 1518.10</i>
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	Yes
TopShield SG 30 Synthetic Underlayment by SRS Corp	Yes	No	No	Yes (residential)	Yes	Yes
Xtreme Weather Warrior Synthetic Underlayment	Yes	No	No	Yes (residential)	Yes	Yes
Securegrip MAX-MTS	Yes	No	No	Yes	Yes	Yes
SecureGrip MAX Synthetic Underlayment	Yes	No	No	Yes	Yes	Yes

TABLE 2: ROOF COVER OPTIONS						
<a href="#">FBC HVHZ:</a>	<i>RAS 115, 1518.2.1</i>	<i>RAS 118, 119 &amp; 120</i>		<i>RAS 133, 1518.2.1</i>	<i>1518.2.1</i>	<i>RAS 130, 1518.10</i>
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)
TopShield® PS/MAX HT 2.0	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 or TopShield® PS/MAX HT 2.0	self-adhering	Deck / sheathing	(Optional) ASTM D41	Plywood
		Base Sheet	None	ASTM D226, Type II felt, 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
		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, 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

5.8 **Attachment Limitations:**

5.8.1 Refer to [Section 6](#) for codified prescriptive systems.

5.8.2 Refer to Tables [4A](#) and [4B](#) for underlayment systems which have documented compliance with Section 7 of [TAS 103](#). The Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety has already been applied).

TABLE 4A: ALLOWABLE DESIGN PRESSURES, ADHERED, DIRECT-TO-DECK UNDERLAYMENT SYSTEMS						
**Nails shall be corrosion resistant and be of sufficient length to penetrate through the sheathing by min. 3/16-inch						
SYSTEM NO.	DECK	PRIMER	JOINT TREATMENT	BASE PLY	CAP PLY	MDP (PSF)
UDL-1.	Plywood, APA rated sheathing, 40/20, Exposure 1, PS1, 19/32 category	(Optional) ASTM D41	None	None	PSUSecureGrip PS Max 2 HT or TopShield® PS/MAX HT 2.0, self-adhered and back-nailed using FBC HVHZ Approved nails** and tin caps ( <a href="#">FBC HVHZ 1517.5</a> ), max. 12-inch o.c.	-97.5
UDL-2.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	None	None	None	PSUSecureGrip PS Max 2 HT or TopShield® PS/MAX HT 2.0, self-adhered and back-nailed using FBC HVHZ Approved nails** and tin caps ( <a href="#">FBC HVHZ 1517.5</a> ), max. 12-inch o.c.	-105.0

TABLE 4B: ALLOWABLE DESIGN PRESSURES, MECHANICALLY ATTACHED, MULTI-PLY UNDERLAYMENT SYSTEMS						
**Nails shall be corrosion resistant and be of sufficient length to penetrate through the sheathing by min. 3/16-inch						
SYSTEM NO.	DECK	BASE SHEET		BASE PLY	CAP PLY	MDP (PSF)
		TYPE	ATTACH			
UDL-1.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	FBC HVHZ Approved ASTM D226, Type II felt	FBC HVHZ Approved nails** and tin caps ( <a href="#">FBC HVHZ 1517.5</a> ); 6-inch o.c. at the 4-inch wide side laps and 12-inch o.c. at two (2) equally spaced center rows.	(Optional) SecureGrip PS Max 100 HT, self-adhered and back-nailed using FBC HVHZ Approved nails** and tin caps ( <a href="#">FBC HVHZ 1517.5</a> ), max. 12-inch o.c.	PSUSecureGrip PS Max 2 HT or TopShield® PS/MAX HT 2.0, self-adhered and back-nailed using FBC HVHZ Approved nails** and tin caps ( <a href="#">FBC HVHZ 1517.5</a> ), max. 12-inch o.c.	-45.0

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 or Xtreme Weather Warrior Synthetic Underlayment	Mechanically attached per <a href="#">Table 2</a>	90
Securegrip MAX-MTS, SecureGrip MAX Synthetic Underlayment, SecureGrip MTS Synthetic Underlayment or SecureGrip Plus Synthetic Underlayment	Mechanically attached per <a href="#">Table 2</a>	180
PSUSecureGrip PS Max 2 HT or TopShield® PS/MAX HT 2.0	Mechanically attached per <a href="#">Table 2</a>	180
SecureGrip PS Max 100 HT	Mechanically attached per <a href="#">Table 2</a>	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 or Tables [4A](#) and [4B](#) for underlayment systems having maximum design pressures established in accordance with Section 7 of [TAS 103](#).
- 6.4 **Underlayment Assemblies with Prescriptive Minimum Attachment for use in NON-TILE applications:**

<b>6.4.1</b>	<b>CODE REFERENCE:</b> 1518.2.1, Option 1: Underlayment adhered to deck
DECK DESCRIPTION:	Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction
UNDERLAYMENT:	<p>BASE PLY: (Optional) <b>SecureGrip PS Max 100 HT</b> self-adhered in accordance with FBC Section 1518.2.1(1) and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5).</p> <p>CAP PLY: <b>PSUSecureGrip PS Max 2 HT, TopShield® PS/MAX HT 2.0 or SecureGrip PS Max 100 HT</b> self-adhered in accordance with FBC Section 1518.2.1(1) and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5).</p>
SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in <a href="#">Table 2</a> herein.

<b>6.4.2</b>	<b>CODE REFERENCE:</b> 1518.2.1, Option 2: Self-adhering strips to deck-joints followed by underlayment mechanically attached to deck
DECK DESCRIPTION:	Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction
SECONDARY WATER BARRIER:	Min. 3 ¼-inch wide strips of <b>PSUSecureGrip PS Max 2 HT, TopShield® PS/MAX HT 2.0 or SecureGrip PS Max 100 HT</b> or other FBC HVHZ Approved joint-strip product self-adhered over joints of the roof deck prior to installation of subsequent layer(s) in accordance with FBC Section 1507.1.1.1(2) or R905.1.1.1(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:	<b>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</b> in accordance with FBC HVHZ Table 1518.2.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck
FASTENING:	FBC HVHZ Approved nails and tin caps ( <a href="#">FBC HVHZ 1517.5</a> ), grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC HVHZ Table 1518.2.1.
SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles or wood shakes or shingles subject to the allowable roof covers in <a href="#">Table 2 herein</a> .

6.4.3	<b>CODE REFERENCE:</b> 1518.2.1, Option 3: Two-layer underlayment mechanically fastened to deck
DECK DESCRIPTION:	Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction
UNDERLAYMENT:	Two (2) layers of <b>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</b> in accordance with FBC HVHZ 1518.2.1(3).
FASTENING:	FBC HVHZ Approved nails and tin caps ( <a href="#">FBC HVHZ 1517.5</a> ) 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, subject to the allowable roof covers in <a href="#">Table 2 herein</a> .

6.4.4	<b>CODE REFERENCE:</b> 1518.2.1, Option 1 combined with Option 2 or 3: Optional self-adhering strips to deck-joints followed by base sheet mechanically fastened to deck followed by underlayment adhered to base sheet
DECK DESCRIPTION:	Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction
SECONDARY WATER BARRIER:	(Optional) Min. 3 ¼-inch wide strips of <b>PSUSecureGrip PS Max 2 HT, TopShield® PS/MAX HT 2.0 or SecureGrip PS Max 100 HT</b> or other FBC HVHZ Approved joint-strip product 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:	One (1) or two (2) layer(s) of <b>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</b> or FBC HVHZ Approved ASTM D226, Type II felt, in accordance with FBC HVHZ Table 1518.2.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck.
FASTENING:	FBC HVHZ Approved nails and tin caps ( <a href="#">FBC HVHZ 1517.5</a> ), grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC HVHZ Table 1518.2.1.
UNDERLAYMENT:	<p><b>BASE PLY:</b> (Optional) <b>SecureGrip PS Max 100 HT</b> self-adhered in accordance with FBC Section 1518.2.1(1) and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5).</p> <p><b>CAP PLY:</b> <b>PSUSecureGrip PS Max 2 HT, TopShield® PS/MAX HT 2.0 or SecureGrip PS Max 100 HT</b> self-adhered in accordance with FBC Section 1518.2.1(1) and back-nailed max. 12-inch o.c. using FBC HVHZ Approved nails and tin caps (FBC HVHZ 1517.5).</p>
SURFACING:	FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in <a href="#">Table 2 herein</a> .

**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](mailto:vbrown@icc-nta.org)

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