



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.R3

FL42148-R3 (HVHZ)

Date of Issuance: 06/26/2023

Revision 3: 04/22/2024

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 **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](#).

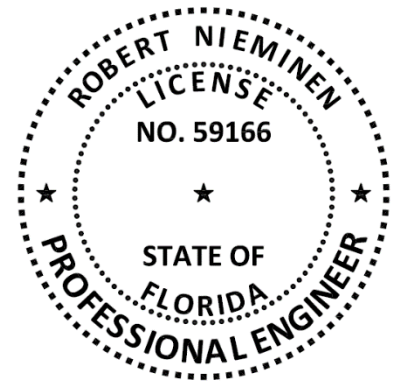
CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO 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 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 **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.R4 | 04/22/2024 |
| NEMO | Traceability | SPE | 04/04/2024 |
| 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) ¹ | DESCRIPTION |
| CMI Ranger 30 Synthetic Underlayment | ASTM D8257 ² | 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 ² | 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 ² | 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 ² | 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. |

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.

² 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) ¹ | DESCRIPTION |
| SecureGrip 30 Synthetic Underlayment | ASTM D8257 ² | 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 Pro Synthetic Underlayment | ASTM D8257 ² | 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 ² | 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 ² | 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 ² | 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 ² | 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 ² | 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 ² | 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 ² | 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 ² | 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 ³ | 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 |
| TopShield® PS/MAX HT 2.0 | ASTM D1970 ³ | 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 |

³ 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.

| TABLE 1: EVALUATED UNDERLAYMENTS | | | |
|----------------------------------|-------------------------|-----------------------|---|
| PRODUCT | MATERIAL STANDARD | PLANT(S) ¹ | DESCRIPTION |
| SecureGrip PS Max 100 HT | ASTM D1970 ³ | 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 | | | | | | |
|--|--------------------------|-------------------------------|--------------|--------------------------|------------------------------|-------------------------|
| <i>FBC HVHZ:</i> | <i>RAS 115, 1518.2.1</i> | <i>RAS 118, 119 & 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 |

| 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 | | | |
| 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 |
| 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 |
| | | 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.

5.8.2 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 | PSU SecureGrip PS Max 2 HT or TopShield PS/MAX HT 2.0, self-adhered and back-nailed using 12 ga. x 3/8-inch head diameter annular ring shank roofing nails* and 1-5/8-inch diameter tin caps, max. 12-inch o.c. | -97.5 |

| 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 | 12 ga. x 3/8-inch head diameter annular ring shank roofing nails* and 1-5/8-inch diameter tin caps; 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 12 ga. x 3/8-inch head diameter annular ring shank roofing nails* and 1-5/8-inch diameter tin caps, max. 12-inch o.c. | PSUSecureGrip PS Max 2 HT or TopShield PS/MAX HT 2.0, self-adhered and back-nailed using 12 ga. x 3/8-inch head diameter annular ring shank roofing nails* and 1-5/8-inch diameter tin caps, 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 Table 2 | 90 |
| Securegrip MAX-MTS, SecureGrip MAX Synthetic Underlayment, SecureGrip MTS Synthetic Underlayment or SecureGrip Plus Synthetic Underlayment | Mechanically attached per Table 2 | 180 |
| PSUSecureGrip PS Max 2 HT or TopShield PS/MAX HT 2.0 | Mechanically attached per Table 2 | 180 |
| SecureGrip PS Max 100 HT | Mechanically attached per Table 2 | 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:

6.4.1 **CODE REFERENCE: 1518.2.1, Option 1: Underlayment adhered to deck**

DECK DESCRIPTION: Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction

UNDERLAYMENT: BASE PLY: (Optional) **SecureGrip PS Max 100 HT** 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).

CAP PLY: **PSUSecureGrip PS Max 2 HT, TopShield PS/MAX HT 2.0 or SecureGrip PS Max 100 HT** 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).

SURFACING: FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in [Table 2](#) herein.

6.4.2 **CODE REFERENCE: 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 ¾-inch wide strips of **PSUSecureGrip PS Max 2 HT, TopShield PS/MAX HT 2.0 or SecureGrip PS Max 100 HT** 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: **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, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck

FASTENING: FBC HVHZ Approved nails and tin caps ([FBC HVHZ 1517.5](#)), 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 [Table 2 herein](#).

6.4.3 **CODE REFERENCE: 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 **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: FBC HVHZ Approved nails and tin caps ([FBC HVHZ 1517.5](#)) 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 [Table 2 herein](#).

| | |
|--------------------------|---|
| 6.4.4 | CODE REFERENCE: 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 PSUSecureGrip PS Max 2 HT, TopShield PS/MAX HT 2.0 or SecureGrip PS Max 100 HT 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 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 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 (FBC HVHZ 1517.5), 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>BASE PLY: (Optional) SecureGrip PS Max 100 HT 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: PSUSecureGrip PS Max 2 HT, TopShield PS/MAX HT 2.0 or SecureGrip PS Max 100 HT 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 Table 2 herein . |

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 -