



NEMO|etc.

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

ENGINEER

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

Sentry Building Innovations

1209 Orange Street, Wilmington,
New Castle, DE 19801
(843) 735-1773

PEER-SBI-001.A.R13

FL21895-R13 (NON-HVHZ)

Date of Issuance: 02/16/2017

Revision 13: 12/15/2025

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. 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 compliance with the **8th Edition (2023) Florida Building Code** [sections noted herein](#).

DESCRIPTION: Roofnado Roof Underlayments (NON-HVHZ)

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and [FBC 1507.1.1](#).

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.

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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 11.

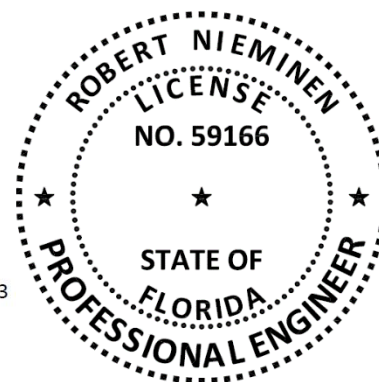
Prepared by:

Digitally signed by
Robert Nieminen
Date: 2025.12.15
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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



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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.

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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: Roofnado Roof Underlayments, as produced by Sentry Building Innovations, have demonstrated compliance with the following sections of the 8th Edition (2023) Florida Building Code 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
1504.2.1.4	Wind resistance	UL 1897
1507.1.1 / R905.1.1	Material standard	ASTM D8257
1507.1.1, 1507.2.9.2 / R905.1.1, R905.2.8.2	Material standard	ASTM D1970
1507.3.3 / R905.3.3	Material standard	FRSA/TRI, Seventh Edition
1523.6.5.2.1, TAS 110	Material standard	TAS 103
TAS 110	Accelerated Weathering	ASTM D4798

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
NEMO	PEER	PEER-ACT-001.A-R10	12/15/2025
NEMO	Traceability	SPE	12/15/2025
ICC NTA dba ICC-ES (QUA3504)	Quality Assurance	Inspection Report (MLI10060)	05/25/2023
ICC NTA dba ICC-ES (QUA3504)	Quality Assurance	Inspection Report (MLI10061)	06/12/2023
ICC NTA dba ICC-ES (QUA3504)	Quality Assurance	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

TABLE 1: EVALUATED UNDERLAYMENTS			
PRODUCT	MATERIAL STANDARD	PLANT(S) ¹	DESCRIPTION
Roofnado™ AnchorDeck™	ASTM D8257 ²	MLI10060	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.
Roofnado™ StormTread®	ASTM D8257 ²	MLI10060 MLI10061	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.
Roofnado™ ShingleLock™	ASTM D8257 ²	MLI10060	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.
Roofnado™ StormTread® XW	ASTM D8257 ²	MLI10060 MLI10061	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.
Sahara™ Anchordeck™	ASTM D8257 ²	MLI10060	Multi-layered, breathable (5.7 U.S. perms) synthetic roof underlayment.

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
Sahara™ BU15	ASTM D8257 ²	MLI10060	Multi-layered, breathable (5.7 U.S. perms) synthetic roof underlayment.
LapLock™ AIB	ASTM D1970 ³	MLI10060	Nominal 40-mil, self-adhering, multi-layered roof underlayment composed of a synthetic top facer bonded to a butyl-adhesive layer and release film
Spyder™ PSU	ASTM D1970 ³	MLI10061	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
Roofnado™ LapLock™ PSU HT	ASTM D1970 ³ FRSA/TRI and TAS 103 (partial)	MLI10061	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
Roofnado™ LapLock™ HD60	ASTM D1970 ³ FRSA/TRI and TAS 103	MLI10061	Nominal 60-mil, self-adhering, multi-layered roof underlayment composed of a synthetic top facer bonded to a polymer modified bituminous layer and release film
Roofnado™ AnchorDeck™ PSU	ASTM D1970 ³ and FRSA/TRI	MLI10061	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 not 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 1505**, ICC [ES-4055F](#) and the fire classification certificate for the roof cover manufacturer 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 **Roofnado Roof Underlayments** 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 NON-HVHZ:	1507.2	1507.3		1507.4 & 1507.5	1507.7	1507.8 & 1507.9
UNDERLAYMENT	ASPHALT SHINGLES	CLAY AND CONCRETE TILE		METAL PANELS OR SHINGLES	SLATE OR SLATE-TYPE SHINGLES	WOOD SHINGLES OR SHAKES
		MECH. ATTACH	ADHESIVE-SET			
Roofnado AnchorDeck	Yes	No	No	Yes (residential)	Yes	No
Roofnado StormTread	Yes	No	No	Yes	Yes	No
Roofnado ShingleLock	Yes	No	No	Yes	Yes	No
Roofnado StormTread XW	Yes	No	No	Yes	Yes	No

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 2: ROOF COVER OPTIONS						
FBC NON-HVHZ	1507.2	1507.3		1507.4 & 1507.5	1507.7	1507.8 & 1507.9
UNDERLAYMENT	ASPHALT SHINGLES	CLAY AND CONCRETE TILE		METAL PANELS OR SHINGLES	SLATE OR SLATE-TYPE SHINGLES	WOOD SHINGLES OR SHAKES
		MECH. ATTACH	ADHESIVE-SET			
Sahara Anchordeck	Yes	No	No	Yes	Yes	No
Sahara BU15	Yes	No	No	Yes	Yes	No
LapLock AIB	Yes	No	No	Yes	Yes	Yes ⁴
Spyder PSU	Yes	No	No	No	Yes	Yes ⁴
Roofnado LapLock PSU HT	Yes	Yes	Yes (Table 2A)	Yes	Yes	Yes ⁴
Roofnado LapLock HD60	Yes	Yes	Yes (Table 2A)	Yes	Yes	Yes ⁴
Roofnado AnchorDeck PSU	Yes	Yes	No	Yes	Yes	Yes ⁴

- 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 Product Approval](#) (statewide or local).
- 5.6.2 Adhesive-set tile is limited to use of following underlayment / tile-adhesive combinations.

TABLE 2A: ALLOWABLE UNDERLAYMENT / TILE-ADHESIVE COMBINATIONS ⁵					
UNDERLAYMENT	TILE-ADHESIVE OPTIONS AND FLORIDA PRODUCT APPROVAL				
	DAP GLOBAL		DUPONT	ICP CONSTRUCTION	
	STORMBOND	STORMBOND 2	TILE BOND	APOC POLYSET AH-160	APOC POLYSET RTA-1
	FL14506	FL14506	FL22525	FL6332	FL6276
Roofnado LapLock PSU HT	Yes	Yes	Yes	Yes	No
Roofnado LapLock HD60	Yes	Yes	Yes	Yes	No

5.7 **Allowable Substrates:**

TABLE 3: ALLOWABLE SUBSTRATE OPTIONS FOR ADHERED UNDERLAYMENTS				
UNDERLAYMENT	APPLICATION	SUBSTRATES (DESIGNED TO MEET CODE)		
		TYPE	PRIMER	MATERIAL(s)
LapLock AIB	self-adhering	Deck / sheathing	None	Plywood
Roofnado LapLock PSU HT or Roofnado LapLock HD60	self-adhering	Deck / sheathing	(Optional) ASTM D41	Plywood or OSB
		Base Sheet	None	ASTM D226, Type II felt, Roofnado AnchorDeck, Roofnado StormTread, Roofnado ShingleLock or Roofnado StormTread XW
		Base Ply	None	Roofnado AnchorDeck PSU
		Deck / sheathing	(Optional) ASTM D41	Plywood or OSB
Roofnado AnchorDeck PSU or Spyder PSU	self-adhering	Deck / sheathing	(Optional) ASTM D41	Plywood or OSB
		Base Sheet	None	ASTM D226, Type II felt, Roofnado AnchorDeck, Roofnado StormTread, Roofnado ShingleLock or Roofnado StormTread XW

⁴ For 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.

⁵ Refer to Tile Manufacturer's or Adhesive Manufacturer's Florida Product Approval for Overturning Moment Resistance Performance

5.8 Attachment Limitations:

5.8.1 For use under mechanically attached NON-TILE prepared roof coverings, attachment shall be in accordance with the manufacturer's installation instructions, but – for mechanically attached underlayments or base sheets - not less than **FBC 1507.1.1** or **R905.1.1**.

5.8.2 Wind Resistance for Underlayment Systems in Tile Roof Applications:

The following wind uplift limitations apply to tile underlayment systems per **FBC 1504.2.1.4**. The Maximum Design Pressure ('MDP') 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 per **FBC 1504.9** has already been applied).

5.8.2.1 Unless otherwise noted, referenced back-nailing shall utilize corrosion resistant metal cap nails meeting specifications set forth in **FBC Table 1507.1.1.1** or "nails and tin caps" meeting the specifications set forth in **FBC HVHZ 1517.5**.

- Note: Back-nailing of self-adhering underlayments is only a codified requirement in tile roof systems.

5.8.2.2 Direct-to-Deck:

The maximum design pressure for the selected assembly shall meet or exceed that required under FRSA/TRI Florida Manual, 7th Edition, Appendix A or the critical (highest) design pressure determined in accordance with **FBC 1609** or **FBC Residential Chapter 3**.

TABLE 4A: ALLOWABLE DESIGN PRESSURES, ADHERED, DIRECT-TO-DECK UNDERLAYMENT SYSTEMS						
SYSTEM No.	DECK	PRIMER	JOINT TREATMENT	BASE PLY	CAP PLY	MDP (psf)
UDL-1.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	None	None	None	Roofnado AnchorDeck PSU, self-adhered and back-nailed in the min. 3.5-inch wide side laps using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c.	-52.5
UDL-2.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	None	None	None	Roofnado LapLock HD60, self-adhered and back-nailed in the min. 3.5-inch wide side laps using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c.	-90.0
UDL-3.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	None	None	None	Roofnado LapLock PSU HT, self-adhered and back-nailed in the min. 3.5-inch wide side laps using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c.	-105.0
UDL-4.	Plywood, APA rated sheathing, 40/20, Exposure 1, PS1, 19/32 category	None	None	None	Roofnado LapLock HD60, self-adhered and back-nailed in the min. 3.5-inch wide side laps using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c.	-120.0
UDL-5.	Plywood, APA rated sheathing, 40/20, Exposure 1, PS1, 19/32 category	None	None	None	Roofnado LapLock HD60, self-adhered and back-nailed in the min. 3.5-inch wide side laps using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c. End laps sealed with ASTM D4586 asphalt-roof-cement.	-135.0
UDL-6.	Plywood, APA rated sheathing, 40/20, Exposure 1, PS1, 19/32 category	None	None	None	Roofnado LapLock PSU HT, self-adhered and back-nailed in the min. 3.5-inch wide side laps using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c. End laps sealed with ASTM D4586 asphalt-roof-cement.	-142.5

5.8.2.3 Mechanically-Attached Base Sheet:

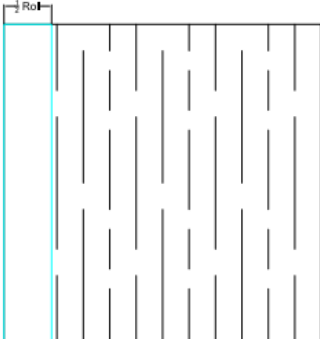
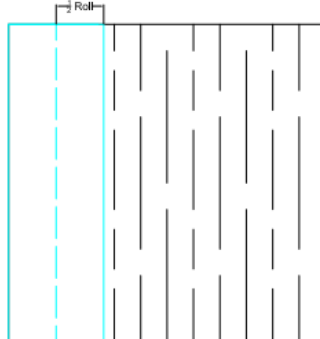
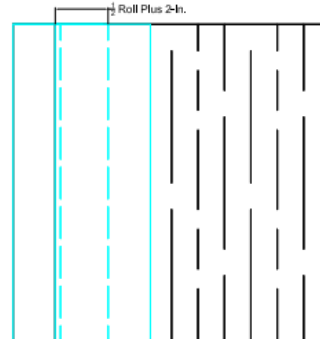
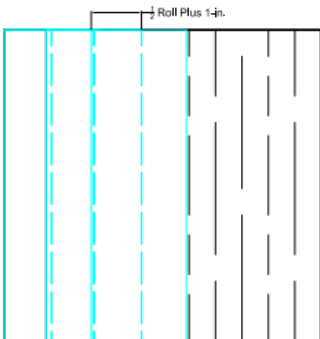
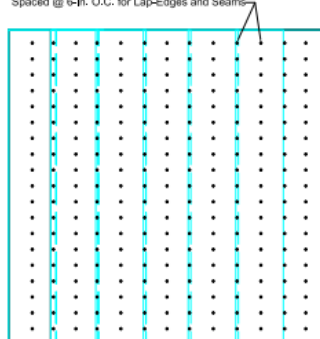
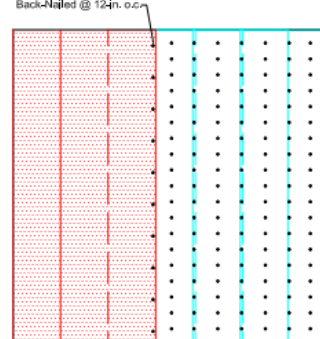
The maximum design pressure for the selected assembly shall meet or exceed that required under **FRSA/TRI Manual, 7th Edition**, Appendix A or the critical (highest) design pressure determined in accordance with **FBC 1609** or **FBC Residential Chapter 3**.

Alternatively, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 design pressure determined in accordance with **FBC 1609** or **FBC Residential Chapter 3**. Elevated pressure zones shall employ an attachment density by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are [ANSI/SPRI](#) WD1, [FM Loss Prevention Data Sheet](#) 1-29 or [Roofing Application Standard](#) RAS 117 or RAS 137.

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-7.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	Roofnado AnchorDeck	12 ga. x 3/8-inch head diameter annular ring shank roofing nails** with 32 ga. x 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.	None	Roofnado LapLock PSU HT, self-adhered and back-nailed in the min. 3.5-inch wide side laps using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c.	-22.5
UDL-8.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	G.A.P. #30 Asphalt Saturated Organic Felt (FPA FL2894)	12 ga. x 3/8-inch head diameter annular ring shank roofing nails** with 32 ga. x 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) Roofnado AnchorDeck PSU, self-adhered and back-nailed using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c.	Roofnado LapLock PSU HT, self-adhered and back-nailed using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c.	-45.0
UDL-9.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	Roofnado AnchorDeck	12 ga. x 3/8-inch head diameter annular ring shank roofing nails** with 32 ga. x 1-5/8-inch diameter tin caps; 6-inch o.c. at the 4-inch wide side laps and 12-inch o.c. at three (3) equally spaced center rows.	None	Roofnado LapLock PSU HT or Roofnado LapLock HD60, self-adhered and back-nailed in the min. 3.5-inch wide side laps using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c.	-45.0
UDL-10.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	TAMKO No. 30 UL (FPA FL12328)	12 ga. x 3/8-inch head diameter annular ring shank roofing nails* with 32 ga. x 1-5/8-inch diameter tin caps, 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at six (6) equally spaced center rows.	None	Roofnado LapLock PSU HT, self-adhered and back-nailed in the min. 3.5-inch wide side laps using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c. End laps sealed with ASTM D4586, Type I flashing cement.	-45.0

**TABLE 4B: ALLOWABLE DESIGN PRESSURES,
MECHANICALLY ATTACHED, MULTI-PLY UNDERLAYMENT SYSTEMS**

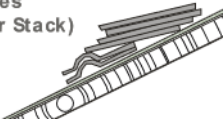
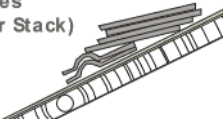
****Nails shall be corrosion resistant and be of sufficient length to penetrate through the sheathing by min. 3/16-inch.**

SYSTEM No.	DECK	BASE SHEET		BASE PLY	CAP PLY	MDP (PSF)
		TYPE	ATTACH			
UDL-11.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	**Double-layer application, TAMKO No. 30 UL (FPA FL12328)	12 ga. x 3/8-inch head diameter annular ring shank roofing nails** with 32 ga. x 1-5/8-inch diameter tin caps; 6x8-inch grid, 6-inch o.c. with centerline 1-inch from starting edge, followed by rows spaced 8-inch o.c. with fasteners spaced 6-inch o.c. within each row.	None	Roofnado LapLock PSU HT, self-adhered and back-nailed in the min. 3.5-inch wide side laps using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c. End laps sealed with ASTM D4586, Type I flashing cement.	-52.5
UDL-12.	** Base sheet applied in double-layer application: Apply a strip of base sheet for the first course that is half the width of a full sheet, fastened sufficiently to hold in place.  Overlap all successive courses half the width of a full sheet plus 1 inch.  Fastening: 12 ga. x 3/8-inch head diameter annular ring shank roofing nails and 32 ga., 1-5/8-inch diameter tin caps, 6x8-inch grid; start 6-inch o.c. with centerline 1-inch from start-edge, followed by rows spaced at the 8-inch o.c. with fasteners spaced 6-inch o.c. within each row.  Apply the third course of base sheet overlapping the second course half the width of a full sheet plus 2 inches.  Overlap all successive courses half the width of a full sheet plus 1 inch.  Spaced @ 6-in. O.C. for Lap-Edges and Seams  Back-Nailed @ 12-in. o.c.					
UDL-13.	Plywood, APA rated sheathing, 32/16, Exposure 1, PS1, 15/32 category	Roofnado AnchorDeck	12 ga. x 3/8-inch head diameter annular ring shank roofing nails* with 32 ga. x 1-5/8-inch diameter tin caps; 6-inch o.c. at the 4-inch wide side laps and 6-inch o.c. at six (6) equally spaced center rows.	None	Roofnado LapLock PSU HT or Roofnado LapLock HD60, self-adhered and back-nailed in the min. 3.5-inch wide side laps using "nails and tin caps" meeting FBC HVHZ 1517.5 , max. 12-inch o.c.	-52.5

5.9 **Exposure Limitations:**

TABLE 5: EXPOSURE LIMITATIONS		
UNDERLAYMENT	PREPARED ROOF COVER INSTALLATION TYPE	MAXIMUM EXPOSURE (DAYS)
Roofnado AnchorDeck, Roofnado ShingleLock, Sahara Anchordeck or Sahara BU15	Mechanically attached per Table 2	90
Roofnado StormTread or Roofnado StormTread XW	Mechanically attached per Table 2	180
LapLock AIB	Mechanically attached per Table 2	30
Spyder PSU	Mechanically attached per Table 2	90
Roofnado LapLock PSU HT or Roofnado LapLock HD60	Any type per Table 2	180
Roofnado AnchorDeck PSU	Mechanically attached per Table 2	90

5.10 **Tile Slippage Limitations:** When loading roof tiles on the underlayment, the maximum roof pitch shall be as follows. These pitch limitations can only be exceeded by using battens or loading boards during loading of the roof tiles.

TABLE 6: TILE SLIPPAGE LIMITATIONS			
UNDERLAYMENT	TILE PROFILE	STAGING METHOD	MAXIMUM STAGING PITCH
Roofnado LapLock PSU HT or Roofnado LapLock HD60	Flat or Lugged	Max. 10-tile stack	4:12
	Flat or Lugged	Max. 6-tile stack (4 over 2) Roofing Tiles (6 Max. Per Stack) 	6:12
Roofnado AnchorDeck PSU	Flat or Lugged	Max. 6-tile stack (4 over 2) Roofing Tiles (6 Max. Per Stack) 	5:12

5.11 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 **Roofnado Roof Underlayments** shall be installed in accordance with **Sentry Building Innovations** installation instructions subject to the [Limitations of Use](#) herein and the specifics noted below.
- 6.1.1 Consult Sentry Building Innovations requirements for back-nailing at pitch of 2:12 or greater.
- 6.1.2 Sahara Anchordeck and Sahara BU15 are marketed as 'breathable', having a water vapor permeance of 5.7 U.S. perms. Care shall be taken to ensure the roof system design takes the vapor permeable nature into account.
- 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 FBC 1504.2.1.4.
- 6.4 Underlayment Assemblies with Prescriptive Minimum Attachment for use in NON-TILE applications:

6.4.1

CODE REFERENCE:	1507.1.1.1 or R905.1.1.1, Option 1: Underlayment adhered to deck				
DECK DESCRIPTION:	Code-minimum wood deck to the satisfaction of the Authority Having Jurisdiction (refer to Table 3 for specific underlayment/substrate combinations)				
UNDERLAYMENT:	<table><tr><td>BASE PLY:</td><td>(Optional) Roofnado AnchorDeck PSU self-adhered in accordance with FBC Section 1507.1.1.1(1) or R905.1.1.1(1) and back-nailed in accordance with the manufacturer's requirements.</td></tr><tr><td>CAP PLY:</td><td>LapLock AIB, Spyder PSU, Roofnado LapLock PSU HT, Roofnado LapLock HD60 or Roofnado AnchorDeck PSU self-adhered in accordance with FBC Section 1507.1.1.1(1) or R905.1.1.1(1) and back-nailed in accordance with the manufacturer's requirements.</td></tr></table>	BASE PLY:	(Optional) Roofnado AnchorDeck PSU self-adhered in accordance with FBC Section 1507.1.1.1(1) or R905.1.1.1(1) and back-nailed in accordance with the manufacturer's requirements.	CAP PLY:	LapLock AIB, Spyder PSU, Roofnado LapLock PSU HT, Roofnado LapLock HD60 or Roofnado AnchorDeck PSU self-adhered in accordance with FBC Section 1507.1.1.1(1) or R905.1.1.1(1) and back-nailed in accordance with the manufacturer's requirements.
BASE PLY:	(Optional) Roofnado AnchorDeck PSU self-adhered in accordance with FBC Section 1507.1.1.1(1) or R905.1.1.1(1) and back-nailed in accordance with the manufacturer's requirements.				
CAP PLY:	LapLock AIB, Spyder PSU, Roofnado LapLock PSU HT, Roofnado LapLock HD60 or Roofnado AnchorDeck PSU self-adhered in accordance with FBC Section 1507.1.1.1(1) or R905.1.1.1(1) and back-nailed in accordance with the manufacturer's requirements.				
SURFACING:	FBC 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:	1507.1.1.1 or R905.1.1.1, 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. 3¾-inch wide strips of LapLock AIB, Spyder PSU, Roofnado LapLock PSU HT, Roofnado LapLock HD60 or Roofnado AnchorDeck PSU or other FBC 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:	Roofnado AnchorDeck, Roofnado StormTread, Roofnado ShingleLock, Roofnado StormTread XW, Sahara Anchordeck or Sahara BU15 in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1, with a minimum 4-inch side lap and 6-inch end lap, mechanically fastened to deck										
FASTENERS:	<table><tr><td colspan="2">Min. 0.083-inch diameter annular ring or deformed shank nails with metal or plastic caps* with a nominal cap diameter of not less than 1-inch and minimum thickness as follows. The nail shall be of sufficient length to penetrate through the roof sheathing, or not less than 0.75-inch into the roof sheathing. *Metal caps are required where the ultimate design wind speed, V_{ult}, equals or exceeds 170 mph.</td></tr><tr><td><u>Cap Type</u></td><td><u>Minimum thickness</u></td></tr><tr><td>Metal cap</td><td>32 ga. sheet metal</td></tr><tr><td>Power-driven metal cap</td><td>0.010-inch</td></tr><tr><td>Plastic cap</td><td>0.035-inch (outside edge thickness)</td></tr></table>	Min. 0.083-inch diameter annular ring or deformed shank nails with metal or plastic caps* with a nominal cap diameter of not less than 1-inch and minimum thickness as follows. The nail shall be of sufficient length to penetrate through the roof sheathing, or not less than 0.75-inch into the roof sheathing. *Metal caps are required where the ultimate design wind speed, V_{ult} , equals or exceeds 170 mph.		<u>Cap Type</u>	<u>Minimum thickness</u>	Metal cap	32 ga. sheet metal	Power-driven metal cap	0.010-inch	Plastic cap	0.035-inch (outside edge thickness)
Min. 0.083-inch diameter annular ring or deformed shank nails with metal or plastic caps* with a nominal cap diameter of not less than 1-inch and minimum thickness as follows. The nail shall be of sufficient length to penetrate through the roof sheathing, or not less than 0.75-inch into the roof sheathing. *Metal caps are required where the ultimate design wind speed, V_{ult} , equals or exceeds 170 mph.											
<u>Cap Type</u>	<u>Minimum thickness</u>										
Metal cap	32 ga. sheet metal										
Power-driven metal cap	0.010-inch										
Plastic cap	0.035-inch (outside edge thickness)										
FASTENING:	Grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1										
SURFACING:	FBC Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles, subject to the allowable roof covers in Table 2 herein .										

6.4.3	CODE REFERENCE: 1507.1.1.1 or R905.1.1.1, 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 Roofnado AnchorDeck, Roofnado StormTread, Roofnado ShingleLock, Roofnado StormTread XW, Sahara Anchordeck or Sahara BU15 in accordance with FBC Section 1507.1.1.1(3) or R905.1.1.1(3).								
FASTENERS:	Min. 0.083-inch diameter annular ring or deformed shank nails with metal or plastic caps* with a nominal cap diameter of not less than 1-inch and minimum thickness as follows. The nail shall be of sufficient length to penetrate through the roof sheathing, or not less than 0.75-inch into the roof sheathing. *Metal caps are required where the ultimate design wind speed, V_{ult} , equals or exceeds 170 mph. <table> <tr> <th><u>Cap Type</u></th><th><u>Minimum thickness</u></th></tr> <tr> <td>Metal cap</td><td>32 ga. sheet metal</td></tr> <tr> <td>Plastic cap</td><td>0.035-inch (outside edge thickness)</td></tr> </table>	<u>Cap Type</u>	<u>Minimum thickness</u>	Metal cap	32 ga. sheet metal	Plastic cap	0.035-inch (outside edge thickness)		
<u>Cap Type</u>	<u>Minimum thickness</u>								
Metal cap	32 ga. sheet metal								
Plastic cap	0.035-inch (outside edge thickness)								
FASTENING:	Grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC Section 1507.1.1.1(3) or R905.1.1.1(3).								
SURFACING:	FBC 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: 1507.1.1.1 or R905.1.1.1, 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. 3¼-inch wide strips of LapLock AIB, Spyder PSU, Roofnado LapLock PSU HT, Roofnado LapLock HD60 or Roofnado AnchorDeck PSU or other FBC 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.								
BASE SHEET:	One (1) layer of Roofnado AnchorDeck, Roofnado StormTread, Roofnado ShingleLock or Roofnado StormTread XW or FBC Approved ASTM D226, Type II felt, in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1, with a minimum 4-inch side lap and 6-inch end lap or two (2) layers of Roofnado AnchorDeck, Roofnado StormTread, Roofnado ShingleLock or Roofnado StormTread XW or FBC Approved ASTM D226, Type II felt in accordance with FBC Section 1507.1.1.1(3) or R905.1.1.1(3), mechanically fastened to deck								
FASTENERS:	Min. 0.083-inch diameter annular ring or deformed shank nails with metal or plastic caps* with a nominal cap diameter of not less than 1-inch and minimum thickness as follows. The nail shall be of sufficient length to penetrate through the roof sheathing, or not less than 0.75-inch into the roof sheathing. *Metal caps are required where the ultimate design wind speed, V_{ult} , equals or exceeds 170 mph. <table> <tr> <th><u>Cap Type</u></th><th><u>Minimum thickness</u></th></tr> <tr> <td>Metal cap</td><td>32 ga. sheet metal</td></tr> <tr> <td>Power-driven metal cap</td><td>0.010-inch</td></tr> <tr> <td>Plastic cap</td><td>0.035-inch (outside edge thickness)</td></tr> </table>	<u>Cap Type</u>	<u>Minimum thickness</u>	Metal cap	32 ga. sheet metal	Power-driven metal cap	0.010-inch	Plastic cap	0.035-inch (outside edge thickness)
<u>Cap Type</u>	<u>Minimum thickness</u>								
Metal cap	32 ga. sheet metal								
Power-driven metal cap	0.010-inch								
Plastic cap	0.035-inch (outside edge thickness)								
FASTENING:	Grid pattern of 12-inches between the overlaps and 6-inch spacing at the overlaps, in accordance with FBC Table 1507.1.1.1 or Table R905.1.1.1 or FBC Section 1507.1.1.1(3) or R905.1.1.1(3).								
UNDERLAYMENT:	BASE PLY: (Optional) Roofnado AnchorDeck PSU self-adhering and back-nailed in accordance with the manufacturer's requirements. CAP PLY: LapLock AIB, Spyder PSU, Roofnado LapLock PSU HT, Roofnado LapLock HD60 or Roofnado AnchorDeck PSU self-adhering and back-nailed in accordance with the manufacturer's requirements.								
SURFACING:	FBC 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 dba ICC-ES \(QUA3504\)](#), (574) 773-7975, vbrown@icc-nta.org

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