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)

East Coast Metals, Inc.
7905 W. 20th Avenue
Hialeah, FL 33014
(305) 885-9991

PEER-ECM-001.A.R6
FL5374-R7
Date of Issuance: 09/03/2008
Revision 6: 10/19/2023

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 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** sections noted herein.

DESCRIPTION: TRIMLOCK and TRIMLOCK PLUS Hip & Ridge Anchor

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

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.

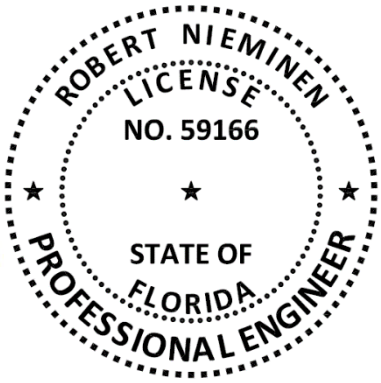
INSPECTION: Upon request, a copy of this entire PEER shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This PEER consists of pages 1 through 9.

Prepared by:

Digitally signed by Robert Nieminen
Date: 2023.10.19 '12:20:08 -04'00

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: Roofing Accessories that are an Integral Part of the Roofing System
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: TRIMLOCK and TRIMLOCK PLUS, as produced by **East Coast Metals**, 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
1504.2.1.1	Overturning resistance	SBCCI SSTD 11
1507.3.7	Installation, non-HVHZ	FRSA/TRI Manual
1518.8.1	Installation, HVHZ	RAS 118, 119 & 120
1523.6.5.2.2	Static uplift resistance	TAS 101

3. REFERENCES:

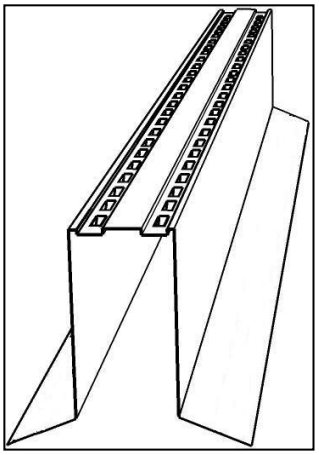
Entity	Examination	Reference	Date
ERD (TST6049)	Static Uplift Resistance	E42730.08.13	08/23/2013
ERD (TST6049)	Static Uplift Resistance	ECM-SC6795.12.14-1	02/27/2015
ERD (TST6049)	Static Uplift Resistance	ECM-SC6795.12.14-2	02/27/2015
Florida TEC (TST7393)	TAS 101	S10-628R	10/27/2010
NEMO (TST6049)	Tensile adhesion	4i-ECM-20-SSCRT	09/29/2020
NEMO (TST6049)	Static Uplift Resistance	4c-ECM-23-LSOTM-01.A	10/18/2023
PRI (TST5878)	TAS 101	ECM-001-02-01	09/21/2001
PRI (TST5878)	TAS 101	ECM-003-02-01	06/13/2008
PRI (TST5878)	TAS 101	ECM-004-02-01	06/13/2008
PRI (TST5878)	TAS 101	ECM-005-02-01	06/13/2008
PRI (TST5878)	TAS 101	ECM-006-02-01	06/13/2008
PRI (TST5878)	TAS 101	ECM-007-02-01	06/13/2008
PRI (TST5878)	TAS 101	ECM-008-02-01	06/13/2008
East Coast Metals	Metal Specs	Mill Certifications	Various
Intertek/ATI (QUA1844)	Quality Control	Participation Letter	03/11/2015
Intertek/ATI (QUA1844)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

4.1 **TRIMLOCK:**

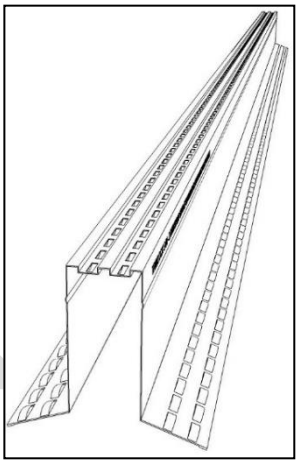
Pre-formed metal channel designed for use as a hip and ridge base to which roof tiles are bonded in FBC Approved roof tile adhesive. **TRIMLOCK** is characterized by its profiled and perforated upper horizontal flange designed to receive and allow for interlock with the overlying tile adhesive.

TRIMLOCK is available in 119-3/8-inch (± 3/8") length by 3, 3.5, 4, 5, 6 or 7-inch (± 3/8-inch) heights with 1.5-inch (± 1/16-inch) deck-flanges.



4.2 **TRIMLOCK PLUS:**

Pre-formed metal channel designed for use as a hip and ridge base to which roof tiles are bonded in FBC Approved roof tile adhesive. **TRIMLOCK PLUS** is characterized by its profiled and perforated upper horizontal flange designed to receive and allow for interlock with the overlying tile adhesive and its perforated deck flanges, designed for installation atop the roof underlayment via placement in FBC Approved roof tile adhesive, which flows-through and interlocks with the underlying adhesive.



TRIMLOCK PLUS is available in 119-3/8-inch (± 3/8") length by 3, 3.5, 4, 5, 6 or 7-inch (± 3/8-inch) heights with 1.5-inch (± 1/16-inch) deck-flanges.

4.4 **TRIMLOCK** and **TRIMLOCK PLUS** are fabricated of the following metals:

- Galvalume Steel: Min. 0.019 ± 0.002-inch, ASTM A792, AZ55, min. 35 KSI.
- Aluminum: Min. 0.032 ± 0.002-inch, ASTM B209, 3003-H14, min. 21 KSI.
- Stainless Steel: Min. 0.019 ± 0.002-inch, ASTM A240/A480, T304, min. 35 KSI.

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 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.

5.3 This PEER does not include evaluation of fire classification. Refer to **FBC 1505** or **R902** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.

5.4 This PEER does not include evaluation of roof edge termination.

5.5 Allowable uplift performance limitations are set forth in Sections 5.6 and 5.7 for FBC NON-HVHZ and FBC HVHZ jurisdictions, respectively. The following tile adhesive paddy-placement nomenclature is referenced therein.

5.5.1 **"INDEPENDENT" paddy placement:** Each individual tile is bonded to the hip & ridge anchor in its own, single foam paddy or continuous foam ribbon; tile head laps are not bonded. Allowable performance data for "INDEPENDENT" paddy placement has a 2 to 1 margin of safety applied to ultimate performance

5.5.2 **"INTERDEPENDENT" paddy placement:** Each individual tile is bonded to the hip & ridge anchor in a foam paddy, and a second foam paddy bonds the tile head lap, or two tiles are bonded to the hip & ridge anchor using a single foam paddy. Allowable performance data for "INTERDEPENDENT" paddy placement has a 4 to 1 margin of safety applied to ultimate performance.

5.6 NON-HVHZ JURISDICTIONS:

5.6.1 Refer to the **FRSA/TRI Manual 7th Edition (Table 1H or 1G)** for the design pressure requirement of the project.

5.6.2 The **Allowable Uplift (psf)** of the selected configuration from Table 1A or 1B shall meet or exceed the **design pressure requirement (psf)**.

The requisite Margin of Safety has already been applied.

TABLE 1A: PERFORMANCE LIMITATIONS – NON-HVHZ
INDEPENDENT PADDY PLACEMENT (SECTION 5.5.1)

HIP & RIDGE ANCHOR		TILE	ADHESIVE			ALLOWABLE UPLIFT (PSF)
DESIGN	METAL TYPE		BY	NAME	PLACEMENT	
ONE-COMPONENT TILE ADHESIVES						
TRIMLOCK or TRIMLOCK PLUS	Aluminum	Clay	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	161
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	137
			ICP	APOC Polyset RTA-1	2x12-inch	171
		Concrete	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	126
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	189
			ICP	APOC Polyset RTA-1	2x12-inch	186
	Galvalume®	Clay	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	133
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	202
			ICP	APOC Polyset RTA-1	2x12-inch	202
		Concrete	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	134
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	142
			ICP	APOC Polyset RTA-1	2x12-inch	142
	Stainless Steel	Clay	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	118
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	125
			ICP	APOC Polyset RTA-1	2x12-inch	125
		Concrete	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	116
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	133
			ICP	APOC Polyset RTA-1	2x12-inch	133
TWO-COMPONENT TILE ADHESIVES						
TRIMLOCK or TRIMLOCK PLUS	Aluminum	Clay	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	237
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	175
		Concrete	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	250
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	222
	Galvalume®	Clay	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	197
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	197
		Concrete	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	156
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	156
	Stainless Steel	Clay	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	170
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	170
		Concrete	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	186
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	186

TABLE 1A (CONTINUED): PERFORMANCE LIMITATIONS – NON-HVHZ INDEPENDENT PADDY PLACEMENT (SECTION 5.5.1)						
HIP & RIDGE ANCHOR		TILE	ADHESIVE			ALLOWABLE UPLIFT (PSF)
DESIGN	METAL TYPE		BY	NAME	PLACEMENT	
TRIMLOCK	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete	DAP	Touch 'n Seal StormBond 2 Two-Component Roof Tile Adhesive	Continuous ribbon	173
			ICP	APOC Polyset AH-160 (HFC)	Continuous ribbon	173
TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete	DAP	Touch 'n Seal StormBond 2 Two-Component Roof Tile Adhesive	Continuous ribbon	178
			ICP	APOC Polyset AH-160 (HFC)	Continuous ribbon	178

TABLE 1B: PERFORMANCE LIMITATIONS – NON-HVHZ INTERDEPENDENT PADDY PLACEMENT (SECTION 5.5.2)						
HIP & RIDGE ANCHOR		TILE	ADHESIVE			ALLOWABLE UPLIFT (PSF)
DESIGN	METAL TYPE		BY	NAME	PLACEMENT	
ONE-COMPONENT TILE ADHESIVES						
TRIMLOCK	Galvalume® or stainless steel	Clay or Concrete	DuPont	TILE BOND™ Roof Tile Adhesive	One 1 x 10-inch paddy to metal and one 1 x 4-inch paddy at overlap	152
TRIMLOCK	Aluminum	Clay or Concrete				82
TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete				82
TRIMLOCK	Galvalume® or stainless steel	Clay or Concrete	DAP	Touch 'n Seal StormBond Roof Tile Adhesive	One 1.5-inch wide continuous ribbon to metal and one 1.75-inch wide paddy at overlap	148
TRIMLOCK	Aluminum	Clay or Concrete				61
TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete				61
TRIMLOCK	Galvalume® or stainless steel	Clay or Concrete	ICP	APOC Polyset RTA-1	One 2 x 7-inch paddy to metal and one 2 x 7-inch paddy at overlap	110
TRIMLOCK	Aluminum	Clay or Concrete				93
TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete				93
TWO-COMPONENT TILE ADHESIVES						
TRIMLOCK or TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete	DAP	Touch 'n Seal StormBond 2 Two-Component Roof Tile Adhesive	One 2 x 7-inch paddy to metal and one 2 x 7-inch paddy at overlap	98
TRIMLOCK or TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete	ICP	APOC Polyset AH-160 (HFC)	One 2 x 7-inch paddy to metal and one 2 x 7-inch paddy at overlap	98

5.7 HVHZ JURISDICTIONS (e.g., Broward and Miami-Dade Counties):

5.7.1 **TRIMLOCK** is prescriptive by Roofing Application Standard RAS 118, 119 and 120, and the data in Tables 2A and 2B is not required.

5.7.2 **TRIMLOCK PLUS:**

Refer to **Roofing Application Standard** **RAS 127** for the **Moment Resistance, M_r** requirement (for Moment Based Systems) or the **Uplift Resistance, F_r** requirement (for Uplift Based Systems) of the project.

For Moment Based Analysis: The **Attachment Resistance, Mf (ft-lbf)** of the selected configuration from Table 2A or 2B shall meet or exceed the **Moment Resistance, M_r (ft-lbf)** requirement.

or

For Uplift Based Analysis: The **MCRF, F' (lbf)** of the selected configuration from Table 2A or 2B shall meet or exceed the **Uplift Resistance, F_r (lbf)** requirement.

The requisite Margin of Safety has already been applied.

TABLE 2A: PERFORMANCE LIMITATIONS – HVHZ
INDEPENDENT PADDY PLACEMENT (SECTION 5.5.1)

HIP & RIDGE ANCHOR		TILE	ADHESIVE			ALLOWABLE PERFORMANCE	
DESIGN	METAL TYPE		BY	NAME	PLACEMENT	MOMENT BASED M_F (FT-LBF)	MCRF F' (LBF)
ONE-COMPONENT TILE ADHESIVES							
TRIMLOCK or TRIMLOCK PLUS	Aluminum	Clay	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	204	164
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	174	140
			ICP	APOC Polyset RTA-1	2x12-inch	217	175
		Concrete	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	169	158
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	255	238
			ICP	APOC Polyset RTA-1	2x12-inch	250	233
	Galvalume®	Clay	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	168	135
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	256	206
			ICP	APOC Polyset RTA-1	2x12-inch	256	206
		Concrete	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	181	169
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	192	179
			ICP	APOC Polyset RTA-1	2x12-inch	192	179
	Stainless Steel	Clay	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	149	120
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	159	128
			ICP	APOC Polyset RTA-1	2x12-inch	159	128
		Concrete	DAP	Touch 'n Seal Storm Bond Low GWP Adhesive	2x12-inch	157	146
			DuPont	TILE BOND™ Roof Tile Adhesive	2x12-inch	179	167
			ICP	APOC Polyset RTA-1	2x12-inch	179	167

TABLE 2A (CONTINUED): PERFORMANCE LIMITATIONS – HVHZ INDEPENDENT PADDY PLACEMENT (SECTION 5.5.1)							
HIP & RIDGE ANCHOR		TILE	ADHESIVE			ALLOWABLE PERFORMANCE	
DESIGN	METAL TYPE		BY	NAME	PLACEMENT	MOMENT BASED M_F (FT-LBF)	UPLIFT BASED F' (LBF)
TWO-COMPONENT TILE ADHESIVES							
TRIMLOCK or TRIMLOCK PLUS	Aluminum	Clay	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	300	242
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	222	179
		Concrete	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	336	314
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	298	278
	Galvalume®	Clay	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	249	201
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	249	201
		Concrete	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	210	196
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	210	196
TRIMLOCK or TRIMLOCK PLUS	Stainless Steel	Clay	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	216	174
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	216	174
		Concrete	DAP	Touch 'n Seal Storm Bond 2 Roof Tile Adhesive Low GWP	2x10-inch	251	234
			ICP	APOC Polyset AH-160 (HFC)	2x10-inch	251	234
TRIMLOCK	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete	DAP	Touch 'n Seal StormBond 2 Two-Component Roof Tile Adhesive	Continuous ribbon	171	159
			ICP	APOC Polyset AH-160 (HFC)	Continuous ribbon	171	159
TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete	DAP	Touch 'n Seal StormBond 2 Two-Component Roof Tile Adhesive	Continuous ribbon	177	165
			ICP	APOC Polyset AH-160 (HFC)	Continuous ribbon	177	165

TABLE 2B: PERFORMANCE LIMITATIONS – HVHZ INTERDEPENDENT PADDY PLACEMENT (SECTION 5.5.2)							
HIP & RIDGE ANCHOR		TILE	ADHESIVE			ALLOWABLE PERFORMANCE	
DESIGN	METAL TYPE		BY	NAME	PLACEMENT	MOMENT BASED M_F (FT-LBF)	UPLIFT BASED F' (LBF)
ONE COMPONENT TILE ADHESIVES							
TRIMLOCK	Galvalume® or stainless steel	Clay or Concrete	DuPont	TILE BOND™ Roof Tile Adhesive	One 1 x 10-inch paddy to metal and one 1 x 4-inch paddy at overlap	123	117
TRIMLOCK	Aluminum	Clay or Concrete				79	73
TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete				79	73

TABLE 2B: PERFORMANCE LIMITATIONS – HVHZ
INTERDEPENDENT PADDY PLACEMENT (SECTION 5.5.2)

HIP & RIDGE ANCHOR		TILE	ADHESIVE			ALLOWABLE PERFORMANCE	
DESIGN	METAL TYPE		BY	NAME	PLACEMENT	MOMENT BASED M_F (FT-LBF)	UPLIFT BASED F' (LBF)
TRIMLOCK	Galvalume® or stainless steel	Clay or Concrete	DAP	Touch 'n Seal StormBond Roof Tile Adhesive	One 1.5-inch wide continuous ribbon to metal and one 1.75-inch wide paddy at overlap	146	139
TRIMLOCK	Aluminum	Clay or Concrete				58	54
TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete				58	54
TRIMLOCK	Galvalume®, stainless steel	Clay or Concrete	ICP	APOC Polyset RTA-1	One 2 x 7-inch paddy to metal and one 2 x 7-inch paddy at overlap	99	94
TRIMLOCK	Aluminum	Clay or Concrete				90	84
TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete				90	84
TWO-COMPONENT TILE ADHESIVES							
TRIMLOCK or TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete	DAP	Touch 'n Seal StormBond 2 Two-Component Roof Tile Adhesive	One 2 x 7-inch paddy to metal and one 2 x 7-inch paddy at overlap	95	88
TRIMLOCK or TRIMLOCK PLUS	Galvalume®, Aluminum or Stainless Steel	Clay or Concrete	ICP	APOC Polyset AH-160 (HFC)	One 2 x 7-inch paddy to metal and one 2 x 7-inch paddy at overlap	95	88

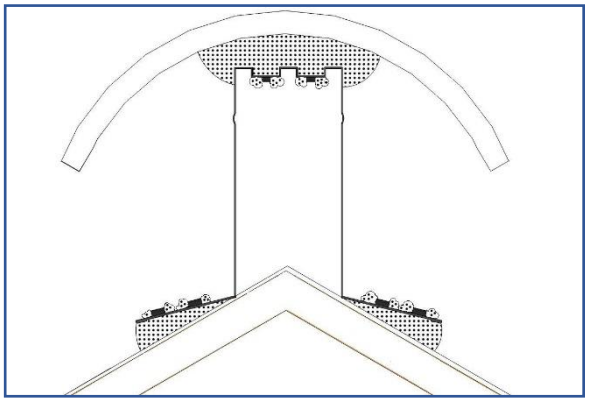
6. INSTALLATION:

6.1 The roof deck shall be minimum 15/32-inch plywood (non-HVHZ) or minimum 19/32-inch plywood (HVHZ) attached in accordance with FBC Chapter 23 to the satisfaction of the Authority Having Jurisdiction.

6.2 **TRIMLOCK** or **TRIMLOCK PLUS** shall be free of dust, debris, oils or other bond-breaking substance prior to placement of adhesive.

6.3 **TRIMLOCK** shall be installed using min. 11 ga. x 1¼-inch long x 3/8-inch head diameter galvanized annular ring shank nails spaced 6-inch o.c. along both deck-flanges. Fasteners shall be positioned ¾-inch from the outside edge of each deck-flange, set in a bed plastic roof cement. For FBC HVHZ, refer to Roofing Application Standard RAS 118, Drawing 13, Detail 3; RAS 119, Drawing 12, Detail 3; or RAS 120, Drawing 15, Detail 3.

6.4 **TRIMLOCK PLUS** shall be installed atop the Approved roof underlayment in continuous 2-inch wide ribbons of tile adhesive centered beneath each 1.5-inch wide deck flange. Place the **TRIMLOCK PLUS** into the wet adhesive and allow it to set-up prior to installation of roof tiles.



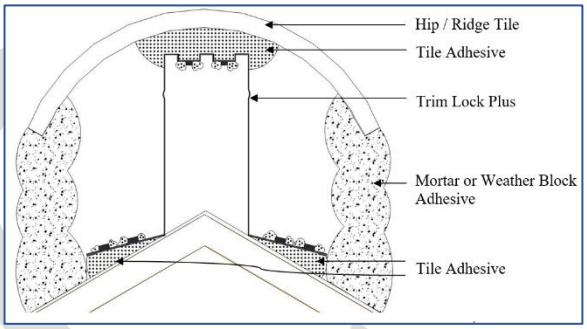
View of Tile Adhesive Placement for TRIMLOCK PLUS Installation

6.4.1 It is critical that the bond between the **TRIMLOCK PLUS**, the tile adhesive and the underlayment is not disturbed prior to or during placement of the ridge tiles.

6.4.2 Data herein for **TRIMLOCK PLUS** relates to installation over a TWO-PLY underlayment system, as detailed in the **FRSA/TRI Manual 7th Edition**, using a hot-asphalt-applied, ASTM D6380, Class M cap sheet (commonly called a '30/90 system').

Alternate underlayment systems are those having a current Florida Product Approval, Miami-Dade NOA or approved on a local-level by the Authority Having Jurisdiction, listed specifically for use with the selected Approved tile adhesive.

6.5 Tile shall be installed atop the hip & ridge anchor in accordance with the tile adhesive manufacturer's Approved, published installation instructions, subject to the Limitations of Use herein. The exposed edges shall be packed and pointed with Approved mortar or weather blocking adhesive in accordance with **FRSA/TRI Manual 7th Edition** or Roofing Application Standard RAS 118, RAS 119, RAS 120 requirements.



View of TRIMLOCK PLUS Installation after Weather Blocked

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:

Hialeah, FL

9. QUALITY ASSURANCE ENTITY:

Architectural Testing, Inc., an Intertek Company – QUA1844; (847) 718-6307; naura.alcheikh@intertek.com

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