



EXTERIOR RESEARCH & DESIGN, LLC.
 Certificate of Authorization #9503
 353 CHRISTIAN STREET, UNIT #13
 OXFORD, CT 06478
 PHONE: (203) 262-9245
 FAX: (203) 262-9243

EVALUATION REPORT

East Coast Metals, Inc.
 2301 West 8 Lane
 Hialeah, FL 33010

Evaluation Report E10240.08.08
FL5374-R1
Date of Issuance: 09/03/2008

SCOPE:

This Evaluation Report is issued under Rule 9B-72 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 and Florida Building Code, Residential Volume. The products described herein have been designed to comply with the 2004 and 2007 Florida Building Code.

DESCRIPTION: Trim Lock Hip and Ridge Metal

LABELING: Each unit shall bear labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

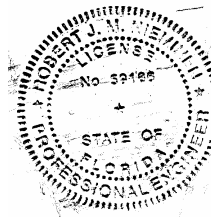
ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report 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 Evaluation Report consists of pages 1 through 5.

Prepared by:

Robert J.M. Nieminen, P.E.
 Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 09/03/2008. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client.

CERTIFICATION OF INDEPENDENCE:

1. Trinity|ERD 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. Trinity|ERD 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 evaluation reports 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.

ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Roofing Accessories that are an Integral Part of the Roofing System
Compliance Statement: Trim Lock, as produced by East Coast Metals, has demonstrated compliance with the following sections of the Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1523.6.5.2.2	Static Uplift Resistance	TAS 101	1995

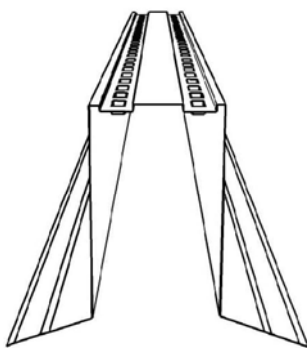
3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
PRI	TAS 101	ECM-003-02-01	06/13/2008
PRI	TAS 101	ECM-004-02-01	06/13/2008
PRI	TAS 101	ECM-005-02-01	06/13/2008
PRI	TAS 101	ECM-006-02-01	06/13/2008
PRI	TAS 101	ECM-007-02-01	06/13/2008
PRI	TAS 101	ECM-008-02-01	06/13/2008
Florida Building Code	Attachment Requirements	FRSA/TRI 07320/8-05	08/2005
Florida Building Code	Attachment Requirements	RAS 118, 119 and 120	1995
Architectural Testing	Quality Control	Participation Letter	09/21/2005

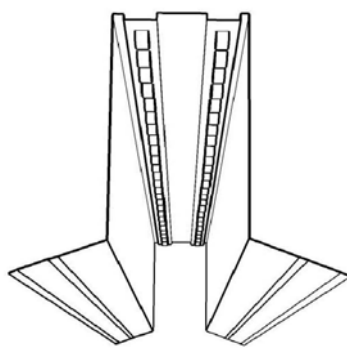
4. PRODUCT DESCRIPTION:

4.1 Trim Lock is a 26 ga., ASTM A653 (G-90) 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.

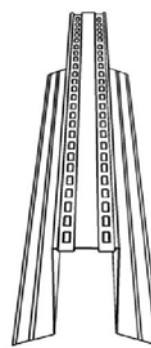
4.1.1 Trim Lock is available in 119-3/8" ($\pm 3/8"$) length by 3", 4", 5" or 6" ($\pm 3/8"$) heights with 1 1/2" ($\pm 1/16"$) deck-flanges.



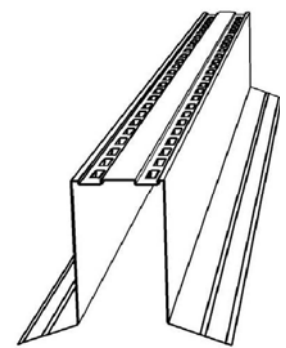
Front View



Bottom View



Top View



Side View

5. LIMITATIONS:

- 5.1 For HVHZ jurisdictions, refer to FBC RAS 118, Drawing 13, Detail 3; RAS 119, Drawing 12, Detail 3; or RAS 120, Drawing 15, Detail 3.
- 5.1.1 For HVHZ jurisdictions, installations are limited to projects having a required uplift resistance (F_r)¹ not greater than the following values.
 - “Interdependent” paddy placement means each individual tile is bonded to the Trim Lock in a foam paddy, and a second foam paddy bonds the tile head lap.
 - “Independent” paddy placement means each individual tile is bonded to the Trim Lock in its own, single foam paddy; tile head laps are not bonded.

Table 1A: Minimum Characteristic Resistance Load – F' (lbf) Interdependent Foam-Paddy Placement					
Tile Type	Foam Adhesive	Foam Paddy Information			F' (lbf)
		Approx. Size (inch)	Approx. Weight (grams)	Placement	
Concrete	PolyPro AH160	2 x 4	9.7	Tile-to-metal, 3" from tile head	104
		4 x 2	9.7	Tile-to-tile at 3" tile headlap	
	Polyset ONE	2 x 4	6.0	Tile-to-metal, 3" from tile head	101
		4 x 1	4.7	Tile-to-tile at 3" tile headlap	
Clay	PolyPro AH160	2 x 4	9.7	Tile-to-metal, 3" from tile head	116
		4 x 2	9.7	Tile-to-tile at 3" tile headlap	
	Polyset ONE	2 x 4	6.0	Tile-to-metal, 3" from tile head	88
		4 x 1	4.7	Tile-to-tile at 3" tile headlap	

Table 1B: Minimum Characteristic Resistance Load – F' (lbf) Independent Paddy Placement					
Tile Type	Foam Adhesive	Foam Paddy Information			F' (lbf)
		Approx. Size (inch)	Approx. Weight (grams)	Placement	
Concrete	PolyPro AH160	2 x 7	38.3	Tile-to-metal, centered along tile length	199
Clay	PolyPro AH160	2 x 7	38.3	Tile-to-metal, centered along tile length	307

¹ Determined in accordance with Section 3 of RAS 127 / ASCE 7-05 for Zones 2 and 3.

5.2 For non-HVHZ jurisdictions, refer to the “Instructions for Hip and Ridge Attachment Sections” of the FRSA/TRI 07320/8-05.

5.2.1 For non-HVHZ installations are limited to projects having hip/ridge design pressure requirements² not greater than the following values. Refer to the tile adhesive manufacturer’s published installation instructions for Adhesive Paddy Placement details.

- “Interdependent” paddy placement means each individual tile is bonded to the Trim Lock in a foam paddy, and a second foam paddy bonds the tile head lap.
- “Independent” paddy placement means each individual tile is bonded to the Trim Lock in its own, single foam paddy; tile head laps are not bonded.

Table 2A: Maximum Design Pressure – (psf) Interdependent Foam-Paddy Placement					
Tile Type	Foam Adhesive	Foam Paddy Information			MDP (psf)
		Approx. Size (inch)	Approx. Weight (grams)	Placement	
Concrete	PolyPro AH160	2 x 4	9.7	Tile-to-metal, 3" from tile head	103
		4 x 2	9.7	Tile-to-tile at 3" tile headlap	
	Polysset ONE	2 x 4	6.0	Tile-to-metal, 3" from tile head	100
		4 x 1	4.7	Tile-to-tile at 3" tile headlap	
Clay	PolyPro AH160	2 x 4	9.7	Tile-to-metal, 3" from tile head	140
		4 x 2	9.7	Tile-to-tile at 3" tile headlap	
	Polysset ONE	2 x 4	6.0	Tile-to-metal, 3" from tile head	105
		4 x 1	4.7	Tile-to-tile at 3" tile headlap	

Table 2B: Maximum Design Pressure – (psf) Independent Paddy Placement					
Tile Type	Foam Adhesive	Foam Paddy Information			MDP (psf)
		Approx. Size (inch)	Approx. Weight (grams)	Placement	
Concrete	PolyPro AH160	2 x 7	38.3	Tile-to-metal, centered along tile length	197
Clay	PolyPro AH160	2 x 7	38.3	Tile-to-metal, centered along tile length	368

² Determined in accordance with FRSA/TRI 07320 Tables 2A through 2D and 3A through 3D.

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 AHJ.
- 6.2 Trim Lock 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.

7. LABELING:

Each unit shall bear a permanent print with the manufacturer's name, product size, lot number, date of manufactured, evaluation report number and state approval number, as well as any labeling requirements of the Accredited Quality Assurance Agency.

8. BUILDING PERMIT REQUIREMENTS:

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

9. MANUFACTURING PLANTS:

Hialeah, FL

10. QUALITY ASSURANCE ENTITY:

Architectural Testing, Inc. – QUA1844

- END OF EVALUATION REPORT -