



EXTERIOR RESEARCH & DESIGN, LLC.

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EVALUATION REPORT

Eagle Roofing Products Florida LLC.
1575 East Country Road 470
Sumterville, FL 33585
(800) 400-3245

Evaluation Report E1322.09.06-R4
FL7473-R7
Date of Issuance: 02/24/2009
Revision 4: 08/14/2017

SCOPE:

This Evaluation Report 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 and Florida Building Code, Residential Volume. The products described herein have been evaluated for compliance with the **6th Edition (2017) Florida Building Code (NON-HVHZ)** sections noted herein.

DESCRIPTION: Eagle Roof Tiles

LABELING: Labeling shall be 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.

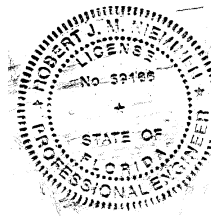
ADVERTISEMENT: The Evaluation Report number preceded by the words "Evaluated by Robert Nieminen, P.E." may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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 08/14/2017. 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.
5. This is a building code evaluation. Neither Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING SYSTEM EVALUATION:

1. SCOPE:

Product Category: Roofing

Sub-Category: Roofing Tiles

Compliance Statement: Eagle Roof Tiles, as produced by Eagle Roofing Products Florida LLC, have demonstrated compliance with the following sections of the 6th Edition (2017) Florida Building Code (NON-HVHZ) 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>
1507.3.5, R905.3.5	Physical Properties	ASTM C1492	2003(2009)
1507.3.7, R905.3.7	Attachment Requirements	FRSA/TRI April 2012 (04-12)	2012
1504.2.1.1	Overturning Moment	SSTD 11	1997

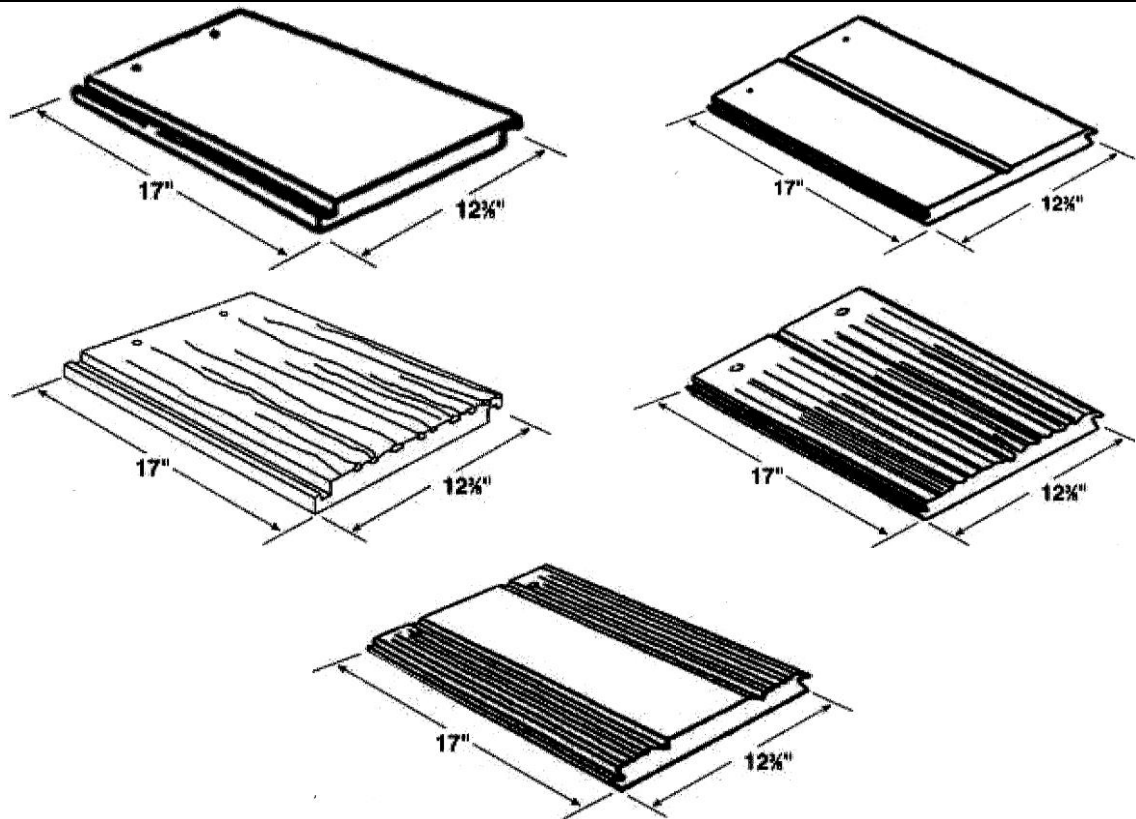
3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ATL (TST 3782)	Physical Properties	RT0310.01-17	03/15/2017
ATL (TST 3782)	Physical Properties	RT0310.02-17	03/15/2017
ATL (TST 3782)	Physical Properties	RT0310.03-17	03/15/2017
Tile Roof Institute	SSTD 11	Membership Letter	11/29/2005
ATI (QUA 1844)	Quality Assurance	Inspection Report	06/07/2017

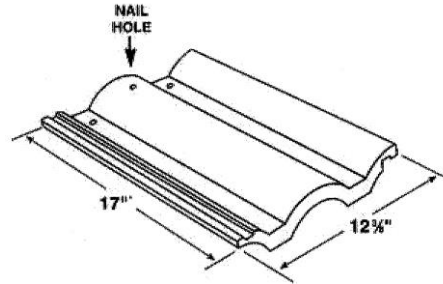
4. PRODUCT DESCRIPTION:

4.1 **ASTM C1492, Type III (Low Profile):**

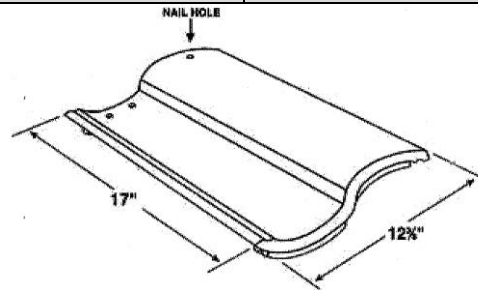
BEL AIR



4.2	ASTM C1492, Type II (Medium Profile):	MALIBU
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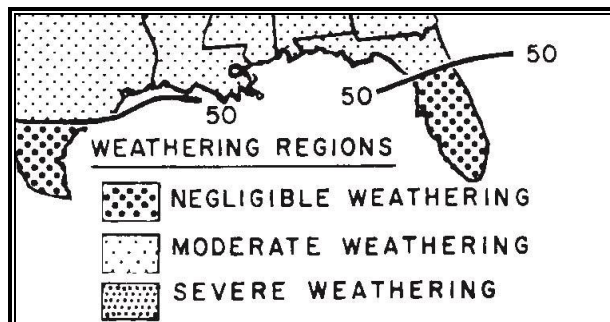


4.3	ASTM C1492, Type I (High Profile):	CAPISTRANO
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5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither Trinity|ERD nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in FBC HVHZ jurisdictions.
- 5.3 Fire classification is not part of this evaluation; refer to **FBC 1505.2, Exception 2** (for non-combustible deck) or listing by an approved testing agency for fire rating of this product.
- 5.4 Underlayment shall be that approved by **Eagle Roofing Products, LLC**, which holds Florida Product Approval for use with tile roofing systems. The underlayment Product Approval shall specify allowable method(s) of tile installation (mechanical attachment, mortar-set and/or adhesive-set) for use with the specific underlayment. For mortar-set or adhesive-set tile roofing applications, the underlayment Product Approval shall specify attachment methods for the underlayment system to resist wind uplift design loads in accordance with **Table 1A of FRSA/TRI April 2012 (04-12)**.
- 5.5 This Evaluation Report is limited to use on projects in areas subjected to weathering indices of 50 or less (negligible weathering), as outlined in **Figure 1 of ASTM C1492-03¹**, reproduced below for reference.



- 5.6 All products in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**.

6. INSTALLATION:

- 6.1 **Eagle Roof Tiles** may be mechanically fastened, mortar-set or adhesive-set. Installation shall comply with manufacturer's current published instructions, but not less than the requirements of **FBC 1507.3** and the **FRSA/TRI Florida High Wind Concrete and Clay Tile Installation Manual**.
- 6.2 Underlayment shall be installed in accordance with **FRSA/TRI April 2012 (04-12)** or the underlayment manufacturer's current Product Approval. For mortar-set or adhesive-set tile roofing applications, the underlayment current Product Approval shall specify attachment methods for the underlayment system to resist wind uplift design loads in accordance with **Table 1A of FRSA/TRI April 2012 (04-12)**.
- 6.3 Tile Attachment:
- 6.3.1 Mechanically Attached Tile:
Wind load resistance shall be in accordance with **Table 3 of FRSA/TRI April 2012 (04-12)** to resist the Uplift Moment determined in **Table 2A or 2B of FRSA/TRI April 2012 (04-12)** or **FBC 1609.5.3**.
- 6.3.2 Mortar-Set Tile:
Wind load resistance shall be in accordance with **Table 2A or 2B of FRSA/TRI April 2012 (04-12)** or **FBC 1609.5.3** in conjunction with the mortar manufacturer's Product Approval.
- 6.3.3 Adhesive-Set Tile:
Wind load resistance shall be in accordance with **Table 2A or 2B of FRSA/TRI April 2012 (04-12)** or **FBC 1609.5.3** in conjunction with the adhesive manufacturer's current Product Approval. Refer to the current version of the referenced Florida Product Approval for paddy-placement details and performance data.

TILE ADHESIVES FOR ADHESIVE-SET TILE SYSTEMS		
<u>Manufacturer</u>	<u>Product(s)</u>	<u>Florida Product Approval</u>
<u>DAP Foam, Inc.</u>	<u>"Touch N' Seal Storm Bond"</u>	<u>FL14506</u>
	<u>"Touch N' Seal Storm Bond 2"</u>	<u>FL21374</u>
<u>Dow Chemical</u>	<u>"TILE BOND™"</u>	<u>FL22525</u>
<u>ICP Adhesives & Sealants, Inc.</u>	<u>"Polyset® AH-160"</u>	<u>FL6332</u>

- 6.3.4 Hip and Ridge Tile:
Tile shall be installed in accordance with **FRSA/TRI April 2012 (04-12)**. For hip and ridge tile installations atop hip and ridge metal, refer to the hip and ridge metal manufacturer's current Product Approval (e.g., FL5374) or test report in accordance with **SSTD 11** for allowable loads to resist those determined in accordance with **Table 1A of FRSA/TRI April 2012 (04-12)**.

7. LABELING:

- 7.1 Each unit shall bear the imprint or identifiable marking of the manufacturer's name or logo. Tile lots shall be labeled in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.



EAGLE FL

(LOCATED ON UNDERSIDE OF TILE)

(LOCATED ON FRONTSIDE OF TILE)

- 7.2 Tile not tested for freeze-thaw shall state clearly that the lot has not been tested for freeze-thaw acceptance on all lot tags or certification.

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:

Sumterville, FL

10. QUALITY ASSURANCE ENTITY:

Architectural Testing, Inc. – QUA1844; (717) 764-7700

- END OF EVALUATION REPORT -

ⁱ ASTM C1492-03, Standard Specification for Concrete Roof Tile, © ASTM International