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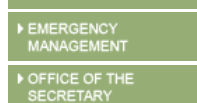


Product Approval

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FL #	FL4911-R2														
Application Type	Revision														
Code Version	2010														
Application Status	Approved														
Comments															
Archived	<input type="checkbox"/>														
Product Manufacturer	GAF														
Address/Phone/Email	1361 Alps Road Wayne, NJ 07470 (973) 872-4421 lindareith@trinityerd.com														
Authorized Signature	Beth McSorley lindareith@trinityerd.com														
Technical Representative	Beth McSarley														
Address/Phone/Email	1361 Alps Road - Bldg 11-1 Wayne, NJ 07470 (973) 872-4421 BMcSorley@gaf.com														
Quality Assurance Representative															
Address/Phone/Email															
Category	Roofing														
Subcategory	Waterproofing														
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input checked="" type="checkbox"/> Evaluation Report - Hardcopy Received														
Florida Engineer or Architect Name who developed the Evaluation Report	Robert Nieminen														
Florida License	PE-59166														
Quality Assurance Entity	Underwriters Laboratories Inc.														
Quality Assurance Contract Expiration Date	01/24/2013														
Validated By	John W. Knezevich, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received														
Certificate of Independence	FL4911_R2_COI_Trinity_ERD_CI - Nieminen.pdf														
Referenced Standard and Year (of Standard)	<table> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>ASTM D6083</td> <td>2005</td> </tr> <tr> <td>ASTM D6163</td> <td>2000</td> </tr> <tr> <td>ASTM D6164</td> <td>2005</td> </tr> <tr> <td>ASTM D6222</td> <td>2002</td> </tr> <tr> <td>FM 4474</td> <td>2004</td> </tr> <tr> <td>TAS 114</td> <td>2011</td> </tr> </tbody> </table>	Standard	Year	ASTM D6083	2005	ASTM D6163	2000	ASTM D6164	2005	ASTM D6222	2002	FM 4474	2004	TAS 114	2011
Standard	Year														
ASTM D6083	2005														
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FM 4474	2004														
TAS 114	2011														

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 12/14/2011
Date Validated 12/16/2011
Date Pending FBC Approval 12/21/2011
Date Approved 01/31/2012

Summary of Products		
FL #	Model, Number or Name	Description
4911.1	GAF Waterproofing Systems	Modified Bitumen and Liquid Applied Waterproofing Systems
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-627.5 Other: The design pressure herein relates to one specific system. Refer to ER Appendix for all systems and design pressures.		Installation Instructions FL4911 R2 II A1 er121411FINAL GAF WTRPRG FL4911-R2.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL4911 R2 AE er121411DRAFT GAF WTRPFG FL4911-R2.pdf Created by Independent Third Party: Yes

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[Contact Us](#) :: [Phone: 850-487-1824](#) [1940 North Monroe Street, Tallahassee FL 32399](#)

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Product Approval Accepts:





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

GAF
1361 Alps Road
Wayne, NJ 07470

Evaluation Report 01506.09.08-R1
FL4911-R2
Date of Issuance: 09/26/2008
Revision 1: 12/14/2011

SCOPE:

This Evaluation Report is issued under Rule 9N-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 product described herein has been designed to comply with the 2010 Florida Building Code.

DESCRIPTION: GAF Waterproofing Systems

LABELING: Each unit shall bear labeling in accordance with the requirements of 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.

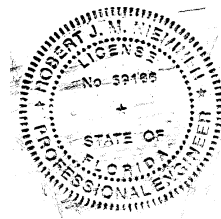
ADVERTISEMENT: The Evaluation Report number preceded by the words "TRINITY|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

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 4, plus a 2-page Appendix.

Prepared by:

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



The facimile seal appearing was authorized by Robert Nieminen, P.E. on 12/14/2011. 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. Exterior Research & Design, LLC. d/b/a 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. Exterior Research & Design, LLC. d/b/a 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 SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing

Sub-Category: Waterproofing

Compliance Statement: Waterproofing Systems, as produced by GAF, have 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>
1504.3.1	Wind	FM 4474	2004
1515.1.1	Wind	TAS 114	2011
1507.15.2	Physicals	ASTM D6083	2005
1507.11.2	Physicals	ASTM D6163	2000
1507.11.2	Physicals	ASTM D6164	2005
1507.11.2	Physicals	ASTM D6222	2002

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST6049)	TAS 114	18031.07.02	07/24/2002
ERD (TST6049)	TAS 114	18026.03.02-R2	12/05/2007
ERD (TST6049)	TAS 114	G6040.03.07-R1	12/06/2007
FM Approvals (TST1867)	FM 4470/4474	3015619	03/15/2006
Miami-Dade (CER1592)	HVHZ compliance	10-0329.01	08/04/2010
Miami-Dade (CER1592)	HVHZ compliance	07-0424.09	06/21/2007
MTI (TST2508)	Physical Properties	EX14A3A	02/26/2004
PRI (TST5878)	Physical Properties	GAF-054-02-01	07/11/2004
PRI (TST5878)	Physical Properties	GAF-087-02-01	09/26/2005
PRI (TST5878)	Physical Properties	GAF-110-02-01	02/15/2006
PRI (TST5878)	Physical Properties	GAF-122-02-01	05/07/2006
PRI (TST5878)	Physical Properties	GAF-084-02-01	05/07/2006
PRI (TST5878)	Physical Properties	GAF-082-02-01	05/07/2006
PRI (TST5878)	Physical Properties	GAF-065-02-01	12/14/2006
UL (TST1740)	Physical Properties	99NK29257	03/16/2000
UL (QUA1743)	Quality Assurance	R1306, Inspection Report	09/20/2011
UL (QUA1743)	Quality Assurance	R14948, Inspection Report	04/29/2011

4. PRODUCT DESCRIPTION:

This Evaluation Report covers GAF Waterproofing Systems installed in accordance with GAF published installation instructions and the Limitations / Conditions of Use herein. The following products make up the subject systems.

Type	Product	Specification		
		Reference	Grade	Type
Base/Ply Membrane:	Ruberoid TORCH Smooth	ASTM D6163	S	I
Cap Membranes:	Ruberoid MOP Smooth	ASTM D6163	S	I

Table 1B: Products for GAF TOPCOAT Waterproofing Systems			
Type	Product	Specification	Use
Liquid Applied	TOPCOAT CRT	ASTM D6083	Waterproofing
	TOPCOAT Elastomeric Membrane	ASTM D6083	Waterproofing
	TOPCOAT Surface Seal SB	ASTM D6083	Waterproofing
	TOPCOAT Topester Fabric	N/A	Reinforcement
	TOPCOAT Flashing Grade	TAS 139	Flashing
	TOPCOAT Liquid Fabric Flashing Grade	N/A	Flashing
	TOPCOAT SB-900	N/A	Flashing
	TOPCOAT Flexseal	TAS 139	Flashing/Detailing
	TOPCOAT Fastener Grade	N/A	Detailing
	TOPCOAT MP-300	N/A	Primer
	TOPCOAT XR-2000	N/A	Primer
	TOPCOAT Precote	N/A	Primer
	TOPCOAT One-Step	N/A	Primer
	TOPCOAT WALLCOTE Block Primer	N/A	Primer
	TOPCOAT WALLCOTE Flashing Sealant	N/A	Sealant

5. LIMITATIONS:

- 5.1 This Evaluation Report is not for use in HVHZ.
- 5.2 Refer to a current Roofing Materials Directory for fire ratings of this product.
- 5.3 Unless otherwise noted in Appendix 1, roof decking and its attachment shall be specified and installed to meet project design criteria to the satisfaction of the AHJ.
- 5.4 For assemblies with all components fully bonded in place, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems
- 5.5 For bonded insulation or membrane over existing substrates in a re-roof (tear off) installation, the existing deck shall be examined for compatibility. If any surface conditions exist that bring system performance into question, field uplift testing in accordance with ASTM E907, FM LPDS 1-52, ANSI/SPRI IA-1 or TAS 124 shall be conducted on mock-ups of the proposed new waterproofing assembly.
- 5.6 Metal edge attachment (except gutters), shall be designed and installed for wind loads in accordance with FBC Chapter 16 and tested for resistance in accordance with ANSI/SPRI ES-1 or RAS 111, except the basic wind speed shall be determined from FBC Figure 1609.
- 5.7 The AHJ may require integrity flood testing (ASTM D5957) or Electric Field Vector Mapping tests of all waterproofing systems prior to placement of the overburden material. Testing, if required by the AHJ, should be conducted by a qualified design professional.
- 5.8 All products in the roof assembly shall have quality assurance audit in accordance with the FBC and F.A.C. Rule 9N-3.

6. INSTALLATION:

- 6.1 GAF Waterproofing Systems shall be installed in accordance with GAF published installation instructions by contractors Approved by GAF , subject to the Limitations / Conditions of Use noted herein. Flashing and detailing shall be in accordance with GAF published installation instructions using GAF specified materials to establish a watertight condition.



6.2 System attachment requirements for wind load resistance are set forth in Appendix 1. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind loads.

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 9N-3 QA requirements.

9. QUALITY ASSURANCE ENTITY:

Underwriters Laboratories – QUA1743; (847) 664-3281

- THE TWO PAGES THAT FOLLOW FORM PART OF THIS EVALUATION REPORT -



The following notes apply to the systems outlined herein:

1. Decks shall be in accordance with FBC requirements to the satisfaction of the AHJ. Wind load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
2. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads shall expand as noted in the manufacturer's published instructions.
 - Hot asphalt (HA): Full Coverage at 25-30 lbs/square. If applying to concrete deck; deck shall be primed with ASTM D41 primer.
 - OlyBond 500 / OlyBond Green: Continuous ¾ to 1-inch wide ribbons, 12-inch o.c. using OMG PaceCart or SpotShot applicator.
 - 3M CR-20: Continuous 2½ to 3½-inch ribbons, 12" o.c.
3. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
4. The maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.
5. Unless otherwise noted, base and top ply membranes are designated as follows based on method of installation:

Reference	Layer	Membrane	Installation
AA	Base	Ruberoid MOP (Smooth)	Hot asphalt at 25 lbs/sq.
	Top	Ruberoid MOP (Smooth)	
HW	Base	Ruberoid TORCH (Smooth)	Heat welded
	Top	Ruberoid TORCH (Smooth)	
CA	Base	Ruberoid MOP (Smooth)	Matrix 102 Select SBS Adhesive (Ruberoid Modified Bitumen Adhesive) at 1 to 2 gallon/square
	Top	Ruberoid MOP (Smooth)	

6. **"MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609.1.5 for determination of design wind loads.**



TABLE 1A: NEW CONSTRUCTION or REROOF (Tear-Off) – CONCRETE DECKS

SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck	Prime	Base Insulation		Top Insulation		Waterproofing System		Wearing Course or Over Burden	MDP (psf)
			Type	Attach	Type	Attach	Base Ply(s)	Top Ply		
C-1.	Concrete	D41	Min. 1.5" GAFTEMP Isotherm	Hot asphalt, OlyBond 500 or CR-20	Min. ½" DensDeck	Hot asphalt, OlyBond 500 or CR-20	One or more HA or HW	HA or HW	Drainage Board and concrete topping slab	N/A

TABLE 1B: NEW CONSTRUCTION or REROOF (Tear-Off) – CONCRETE DECKS

SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER

System No.	Deck	Primer	Waterproofing System		Wearing Course or Over Burden	MDP (psf)
			Base Ply(s)	Top Ply		
C-2.	Concrete	ASTM D41	One or more HA, HW or CA	HA, HW or CA	Drainage Board and concrete topping slab	N/A
C-3.	Concrete	ASTM D41	One or more HA	HA	Exterior grade ceramic plaza deck walking tiles embedded in Custom Building Products thin-set mortar applied with a ¼" notched trowel in accordance with ANSI A108.5	-447.5
C-4.	Concrete	ASTM D41	One or more TA	TA	Exterior grade ceramic plaza deck walking tiles embedded in Custom Building Products thin-set mortar applied with a ¼" notched trowel in accordance with ANSI A108.5	-537.5
C-5.	Concrete	None	Two or more coats TOPCOAT CRT or TOPCOAT Elastomeric Membrane at 1.25 gallons/square per coat to min. wet mil thickness of 20 mils for each coat. Allow 24 hours to cure and inspect for and repair defects.	One or more finish coats TOPCOAT CRT or TOPCOAT Elastomeric Membrane at 1.75 gallons/square per coat to min. wet mil thickness of 28 mils per coat.	None	-576.0
C-6.	Concrete	None	Two or more coats TOPCOAT CRT or TOPCOAT Elastomeric Membrane at 1 gallons/square per coat to min. wet mil thickness of 16 mils for each coat. Allow 24 hours to cure and inspect for and repair defects.		Exterior grade ceramic plaza deck walking tiles embedded in Custom Building Products Polymer Modified Portland Cement applied with a ¼" notched trowel in accordance with ANSI A108.5	-607.5
C-7.	Concrete	None	Two or more coats TOPCOAT Surface Seal at 1 gallons/square per coat to min. wet mil thickness of 16 mils for each coat. Allow 24 hours to cure and inspect for and repair defects.		Exterior grade ceramic plaza deck walking tiles embedded in Custom Building Products Polymer Modified Portland Cement applied with a ¼" notched trowel in accordance with ANSI A108.5	-591.0
C-8.	Concrete	TOPCOAT WALLCOTE Block Prime at 0.5 gal/sq.	Two or more coats TOPCOAT Surface Seal at 1 gallons/square per coat to min. wet mil thickness of 16 mils for each coat. Allow 24 hours to cure and inspect for and repair defects.		Exterior grade ceramic plaza deck walking tiles embedded in Custom Building Products Polymer Modified Portland Cement applied with a ¼" notched trowel in accordance with ANSI A108.5	-627.5