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**Product Approval**  
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 **Application Detail**

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FL #	FL21352-R1														
Application Type	Revision														
Code Version	2017														
Application Status	Approved														
Comments															
Archived	<input type="checkbox"/>														
Product Manufacturer	GAF														
Address/Phone/Email	1 Campus Drive Parispany, NJ 07054 (800) 766-3411 mstieh@gaf.com														
Authorized Signature	Michael Stieh mstieh@gaf.com														
Technical Representative															
Address/Phone/Email															
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 type="checkbox"/> Evaluation Report - Hardcopy Received														
Florida Engineer or Architect Name who developed the Evaluation Report	Zachary R. Priest														
Florida License	PE-74021														
Quality Assurance Entity	Intertek Testing Services NA, Inc. - QA Entity														
Quality Assurance Contract Expiration Date	12/31/2099														
Validated By	Locke Bowden <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received														
Certificate of Independence	<a href="#">FL21352_R1_COI_GAF16001.1_2017_FBC_Eval_Report_Waterproofing_Systems_final.pdf</a>														
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><b>Standard</b></th> <th><b>Year</b></th> </tr> </thead> <tbody> <tr> <td>ASTM D 6083</td> <td>2005</td> </tr> <tr> <td>ASTM G 155</td> <td>2005</td> </tr> <tr> <td>FM 4470</td> <td>2012</td> </tr> <tr> <td>FM 4474</td> <td>2011</td> </tr> <tr> <td>TAS 114(D)</td> <td>1995</td> </tr> <tr> <td>TAS 139</td> <td>1995</td> </tr> </tbody> </table>	<b>Standard</b>	<b>Year</b>	ASTM D 6083	2005	ASTM G 155	2005	FM 4470	2012	FM 4474	2011	TAS 114(D)	1995	TAS 139	1995
<b>Standard</b>	<b>Year</b>														
ASTM D 6083	2005														
ASTM G 155	2005														
FM 4470	2012														
FM 4474	2011														
TAS 114(D)	1995														
TAS 139	1995														
Equivalence of Product Standards Certified By															
Sections from the Code															

Product Approval Method Method 1 Option D

Date Submitted 10/10/2017  
 Date Validated 10/10/2017  
 Date Pending FBC Approval 10/17/2017  
 Date Approved 12/12/2017

**Summary of Products**

FL #	Model, Number or Name	Description
21352.1	Sealoflex Waterproofing Systems	Sealoflex liquid applied waterproofing
<b>Limits of Use</b> Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +0/-82.5 Other: See evaluation report for limits of use.		<b>Installation Instructions</b> <a href="#">FL21352_R1_II_GAF16001.1_2017 FBC Eval Report Waterproofing Systems final.pdf</a> Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL21352_R1_AE_GAF16001.1_2017 FBC Eval Report Waterproofing Systems final.pdf</a> Created by Independent Third Party: Yes

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**EVALUATION REPORT**

**FLORIDA BUILDING CODE, 6<sup>TH</sup> EDITION (2017)**

**Manufacturer:** GAF  
1 Campus Drive  
Parsippany, NJ 07054  
(800) 766-3411  
[www.gaf.com](http://www.gaf.com)

Issued October 9, 2017

**Quality Assurance:** Intertek Testing Services NA Inc. (QUA1673)

**SCOPE**

**Category:** Roofing  
**Subcategory:** Waterproofing  
**Code Sections:** 1504.3.1, 1504.7, 1507.10.2, 1507.15.2  
**Properties:** Wind Resistance, Impact, Physical Properties

**PRODUCT DESCRIPTION**

Use	Products	Description
Primers	Metal Etch Primer	A waterborne acrylic bound primer for use as a first coat on bare ferrous and galvanized metal surfaces.
	Rust-X 2020	A liquid applied polymer primer for use on surfaces where residual rust cannot be removed.
Reinforcements	Sealoflex Fabric	Non-woven polyester reinforcing fabric for use in Sealoflex roof systems
Liquid Applied Membrane	Sealoflex Finish Coat	Acrylic finish coat used in the Sealoflex System or Sealoflex Gravel Roof Recovery System
	Sealoflex Pink	Acrylic base and saturation coat used in the Sealoflex System or Sealoflex Gravel Roof Recovery System
Roof Coating over Liquid Applied Membrane	Coraflex	A resin bonded elastic stucco finish coat for use as a trafficable finish over the Sealoflex System.
	Wearcoat	A flat aqueous emulsion finish coat for use as a trafficable finish over the Sealoflex System.

**REFERENCES**

<u>Entity</u>	<u>Report No.</u>	<u>Standards (Year)</u>
Applied Research Laboratories of South FL (TST3619)	29053-UD1	Adhesion performance
FM Approvals (TST1867)	3023963	FM 4470 (2012); FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	SOF-007-02-01	ASTM D 6083 (2005e01)
PRI Construction Materials Technologies (TST5878)	SOF-025-02-01	ASTM D 6083 (2005e01)
PRI Construction Materials Technologies (TST5878)	SOF-027-02-01	ASTM D 6083 (2005e01)
PRI Construction Materials Technologies (TST5878)	SOF-028-02-01	FM 4474(B) (2011); TAS 114(D) (1995)
PRI Construction Materials Technologies (TST5878)	SOF-033-02-01	Physical Properties
PRI Construction Materials Technologies (TST5878)	SOF-034-02-01	ASTM D 6083 (2005e01)
PRI Construction Materials Technologies (TST5878)	SOF-034-02-02	ASTM D 6083 (2005e01)
PRI Construction Materials Technologies (TST5878)	SOF-035-02-01	TAS 139 (1995)
PRI Construction Materials Technologies (TST5878)	SOF-035-02-02	TAS 139 (1995)
PRI Construction Materials Technologies (TST5878)	SOF-036-02-01	ASTM D 794 (2001); ASTM D 903
PRI Construction Materials Technologies (TST5878)	SOF-037-02-01	ANSI A118.4
PRI Construction Materials Technologies (TST5878)	SOF-038-02-01	ASTM D 6083 (2005e01)
PRI Construction Materials Technologies (TST5878)	SOF-039-02-01	ASTM D 6083 (2005e01); ASTM G 155 (2005a)
Trinity ERD (TST6049)	4210.04.98-1	Adhesion performance
Trinity ERD (TST6049)	4210.06.02	FM 4470 (2012)
Trinity ERD (TST6049)	4223.08.02	FM 4470 (2012)
Trinity ERD (TST6049)	4223.02.03	FM 4470 (2012)
Trinity ERD (TST6049)	4233.08.04	Physical Properties
Trinity ERD (TST6049)	4234.05.05	FM 4470 (2012); FM 4474 (2011)
Trinity ERD (TST6049)	4235.05.05-1	FM 4470 (2012); FM 4474 (2011)
Trinity ERD (TST6049)	4235.05.05-2	FM 4470 (2012); FM 4474 (2011)
Trinity ERD (TST6049)	4234.10.05	FM 4470 (2012); FM 4474 (2011)
Trinity ERD (TST6049)	4213.09.00-1R	FM 4470 (2012); FM 4474 (2011)
Trinity ERD (TST6049)	S30750.03.10-R1	ASTM D 6083 (2005e01)
Trinity ERD (TST6049)	S35600.11.11	ASTM D 6083 (2005e01)
Trinity ERD (TST6049)	S44670.04.13-R2	ASTM D 6083 (2005e01)

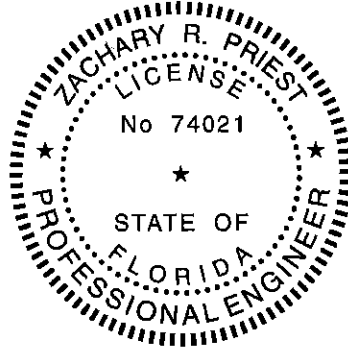
**LIMITATIONS**

1. This report is not for use in the HVHZ.
2. Fire classification is not within the scope of this evaluation.
3. The minimum roof slope shall be 1/4:12 for new construction.
4. The roof deck and the roof deck attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
5. Foam plastic insulation shall be installed in accordance with the FBC Section 2603.
6. Installation of the evaluated products shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
7. For assemblies containing mechanical attachment, the allowable uplift pressure for the selected roof system shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. For perimeter and corner roof zones 2 and 3, the attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in these areas. Commonly used standards include RAS 117, FM LPDS 1-29, or ANSI/SPRI WD-1.
8. Reroofing applications shall be examined in accordance with FBC Section 1511. For mechanically fastened systems, a field withdrawal resistance test (ANSI/SPRI FX-1 or TAS 105) shall be conducted by a qualified professional to ensure the fastener meets the minimum design load requirements of the system. For adhered systems, a field uplift resistance test (ASTM E 907, FM LPDS 1-52, ANSI/SPRI IA-1, or TAS 124) shall be conducted to confirm conformance of the existing to the minimum design loads.
9. For assemblies containing fully adhered or ribbon adhered attachment, or where extrapolation of the roof system is not permitted, the *MDP* for the selected roof system shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16 without augmentation.
10. The AHJ may require integrity flood testing (ASTM D 5957) or Electric Field Vector Mapping testes of all waterproofing systems prior to placement of the overburden material. Testing, if required, should be conducted by a qualified design professional.
11. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

**COMPLIANCE STATEMENT**

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The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 6<sup>th</sup> Edition (2017) as evidenced in the referenced documents submitted by the named manufacturer.



A handwritten signature in black ink, appearing to read "Zachary R. Priest". Below the signature is a small digital stamp that reads "Digitally signed by Zachary R. Priest" and "STATE OF FLORIDA".

2017.10.09  
17:20:45  
-04'00'

Zachary R. Priest, P.E.  
Florida Registration No. 74021  
Organization No. ANE9641

**CERTIFICATION OF INDEPENDENCE**

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CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

**APPENDICES**

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- 1) APPENDIX A – Installation (2 pages)
- 2) APPENDIX B – Nomenclature and Approved Assemblies (4 pages)

**APPENDIX A**

**INSTALLATION**

Note - Refer to the **APPROVED ASSEMBLIES** section of this report within Appendix B for specific installation details of a selected roof system.

Unless otherwise specified in this report the following installation details shall be met for the named products:

Component	Product	Installation Detail
Fastener/Plates	GAF Drill-Tec 3" Ribbed Galvalume Plates (Flat)	For use with GAF Drill-Tec #14 Fasteners
	GAF Drill-Tec 3" Standard Steel Plates	For use with GAF Drill-Tec #14 Fasteners
	GAF Drill-Tec #14 Fastener	Min. 3/4-inch penetration through the wood deck; Min. penetration 1-inch into concrete deck
	SFS Intec Dekfast #14	Min. 3/4-inch penetration through the wood deck; Min. penetration 1-inch into concrete deck
	SFS Intec Dekfast Galvalume Steel Hex	For use with Dekfast #14
Cellular Lightweight Concrete	Min. 200 psi Mearlcrete	In accordance with the published manufacturer's installation instructions; Minimum 2-inch thick with optional 1" thick EPS holey board (1 lbs/ft <sup>3</sup> ). The listed compressive strength shall be the minimum at 28 days after placement.
	Min. 200 psi Elastizell	
	Min. 200 psi Celcore	
	Min. 250 psi Cellular Lightweight Concrete	
Insulation/Coverboard	Dow STYROFOAM 60 High Load 60	Min. 1/2-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft
	Georgia-Pacific DensDeck	Min. 1/4-inch thick; Adhered boards shall be a maximum 4 ft. x 4 ft.
	National Gypsum Permabase Cement Board	
Insulation Adhesives	3M CR-20	Ribbon adhered in 2 1/2 to 3 1/2-inch wide ribbons spaced 12-inchs o.c.
	Hot Asphalt	ASTM D 312; Fully adhered within the EVT range at a rate of 25-30 lbs/100 ft <sup>2</sup>
	Dow Insta-Stik Roofing Adhesive	Ribbon adhered in 3/4 to 1-inch wide ribbons spaced 12-inchs o.c.
Surfacing	Coraflex	In accordance with the manufacturer's installation instructions.
	Wearcoat	
Waterproofing Systems	Sealoflex System	Sealoflex Pink applied throughout the surface at a rate of 1.70 gal/sq with Sealoflex Fabric laid into the wet base coat providing 4 in. wide laps followed by a saturation coat applied at a min rate of 0.80 gal/sq and allowed to dry. Sealoflex Finish Coat is applied in two equal coats at a min combined rate of 1.40 gal/sq. The first coating of Sealoflex Finish Coat must dry prior to applying the second coating. Insulation joints, if present, are treated as follows prior to application of the first foundation coat: Sealoflex Pink applied at 1.70 gal/sq at all insulation joints and 6 in. wide Sealoflex Fabric is placed over the joints followed by a saturation coat of Sealoflex Pink applied at a min rate of 0.80 gal/sq.

**NOMENCLATURE**

The following naming conventions are utilized to specify products in the **APPROVED ASSEMBLIES** section of this report. Refer to the nomenclature below when deciphering the allowable products for use in the selected roof system. Installation requirements shall be as noted in the **APPROVED ASSEMBLIES** and **INSTALLATION** section of this report.

Name	Definition
<i>As Tested</i>	Information provided to the report user based on the as tested condition of the roof system Designed by others in accordance with FBC requirements; <i>As Tested</i> deck construction details are described as follows:
<i>Wood Deck</i>	The following nomenclature is used to further describe the <i>As Tested</i> condition. T <#> Min. <#>-inch thick plywood L <#> Max. span of <#> inches N <#> S Min. #8 wood screw spaced <#>-inch o.c. N <#> R Min. 8d ring shank nails spaced <#>-inch o.c. N <#> C Min. 8d common nails spaced <#>-inch o.c.
<i>Deck Detail</i>	
<i>DensDeck</i>	Min. 1/4-inch Georgia-Pacific DensDeck
<i>Fastened</i>	For Wood Deck, any one of the following fastener plate combinations: GAF Drill-Tec #14 Fastener with GAF Drill-Tec 3" Standard Steel Plates GAF Drill-Tec #14 Fasteners with GAF Drill-Tec 3" Ribbed Galvalume Plates (Flat) Dekfast #14 Fasteners with Dekfast Hex plates
<i>Hot asphalt</i>	ASTM D 312, Type IV
<i>Insulation</i>	One or more layers or combinations of roofing insulation listed in this report or approved under rule 61G20-3, such as gypsum, perlite, polyisocyanurate, polystyrene, or wood fiberboard. Insulation shall be preliminarily secured unless otherwise noted.
<i>LWIC</i>	Poured-in-place Cellular Lightweight Concrete with encapsulated insulation board
<i>MDP</i>	Maximum Design Pressure
<i>Preliminarily Secured</i>	Fastened at minimum rate of 5 per 4 ft. x 8 ft. board or 4 per 4 ft. x 4 ft. board.

APPROVED ASSEMBLIES

The following notes shall be observed when using the roof system tables below.

1. MDPs were calculated using a 2:1 margin of safety per FBC Section 1504.9.
2. Refer to **LIMITATIONS** and **NOMENCLATURE** sections of this evaluation when using the table(s) below.
3. Refer to **INSTALLATION** section of this report for installation detail when the information is not explicitly stated for the selected roof system.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.

Roof System Numbers and Definitions	
W-A-#	Assemblies with All Layers Adhered over Wood Deck (New or Existing)
W-AM-#	Assemblies with Adhered Membranes over Insulated Wood Deck (New or Existing)

**Assemblies with Adhered Membranes over Wood Deck (New, Existing or Recover)**

System No.	Deck Detail	Joint Treatment	Waterproofing	Surfacing	MDP (psf)
W-A-1	T15/32, L24, N6R	Sealoflex Pink / 6-inch Sealoflex Fabric / Sealoflex Pink	Sealoflex System	Wearcoat or Coraflex	-60
W-A-2	T15/32, L24, N6S	Sealoflex Pink / 6-inch Sealoflex Fabric / Sealoflex Pink	Sealoflex System	Wearcoat or Coraflex	-85

**Assemblies with Adhered Membranes over Insulated Wood Deck (New or Existing)**

System No.	Deck Detail	Base Sheet	Base Sheet Attachment	Coverboard	Coverboard Attachment	Primer	Waterproofing	Surfacing	MDP (psf)
W-AM-1	T19/32, L24, N6R or N6C	PermaPly 28, GAFGLAS #75, Sopra-G or other ASTM D4601, Type II base sheet	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails attached 6-inches o.c. at 4-inch lap and 6-inches o.c. in three (3), equally spaced center rows	DensDeck	Fully bonded in Hot asphalt or Insta-Stik or CR-20 applied 6-inch o.c. over base sheet fastener rows		Sealoflex System	Wearcoat or Coraflex	-60

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.



Assemblies with Adhered Membranes over Insulated Wood Deck (New or Existing)									
System No.	Deck Detail	Base Sheet	Base Sheet Attachment	Coverboard	Coverboard Attachment	Primer	Waterproofing	Surfacing	MDP (psf)
W-AM-2	T19/32, L24, N6R or N6C	PermaPly 28, GAFGLAS #75, Sopra-G or other ASTM D4601, Type II base sheet	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails attached 6-inches o.c. at 4-inch lap and 6-inches o.c. in three (3), equally spaced center rows	PermaBase	Fully bonded in <i>Hot asphalt</i> or <i>Insta-Silk</i> or CR-20 applied 6-inch o.c. over base sheet fastener rows	-	Sealoflex System	Wearcoat or Coraflex	-60
W-AM-3	T19/32, L24, N6R or N6C	OPTIONAL <i>Insulation</i>	<i>Preliminarily Secured</i> or <i>secured with top layer</i>	DensDeck	Fastened at a rate of 1 per 1.33-ft <sup>2</sup>	-	Sealoflex System	Wearcoat or Coraflex	-60
W-AM-4	T19/32, L24, N6S	PermaPly 28, GAFGLAS #75, Sopra-G or other ASTM D4601, Type II base sheet	32 ga., 1-5/8-inch diameter tin caps with 11 ga. annular ring shank nails attached 6-inches o.c. at 4-inch lap and 6-inches o.c. in three (3), equally spaced center rows	PermaBase	Fully bonded in <i>Hot asphalt</i> or <i>Insta-Silk</i> or CR-20 applied 6-inch o.c. over base sheet fastener rows	-	Sealoflex System	Wearcoat or Coraflex	-82.5

END OF REPORT

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