



BROWARD COUNTY BOARD OF RULES AND APPEALS ROOFING COMMITTEE

June 15, 2023
2 p.m.

ONE NORTH UNIVERSITY DRIVE
SUITE 3500-B
PLANTATION, FLORIDA 33324

PHONE: 954-765-4500
FAX: 954-765-4504

www.broward.org/codeappeals

2023 Voting Members

Chair

Mr. Daniel Lavrich, P.E., S.I., F.ASCE,
F.SEI
Structural Engineer

Vice-Chair

Mr. Gregg D'Attile,
Air Conditioning Contractor

Mr. Stephen E. Bailey, P.E.
Electrical Engineer

Mr. Sergio Pellecer,
Fire Service Professional

Mr. John Famularo,
Roofing Contractor

Mrs. Shalanda Giles Nelson,
General Contractor

Mr. Daniel Rourke,
Master Plumber

Ms. Lynn E. Wolfson,
Representative Disabled Community

Mr. Dennis A. Ulmer,
Consumer Advocate

Mr. John Sims,
Master Electrician

Mr. Ron Burr,
Swimming Pool Contractor

Mr. Abbas H. Zackria, CSI,
Architect

Mr. Robert A. Kamm, P.E.,
Mechanical Engineer

2023 Alternate Board Members

Mr. Steven Feller, P.E.,
Mechanical Engineer

Mr. Alberto Fernandez,
General Contractor

VACANT,
Roofing Contractor

Derek A. Wassink, P.E., R.A., S.I., S.T.S.2.,
Structural Engineer

Mr. Robert Taylor,
Fire Service

Mr. David Rice, P.E.,
Electrical Engineer

Mr. James Terry,
Master Plumber

Mr. David Tringo,
Master Electrician

Mr. Jeff Falkanger,
Architect

Board Attorney

Charles M. Kramer, Esq.

Board Administrative Director

Dr. Ana Barbosa

Virtual Zoom Meeting Information:
<https://broward-org.zoomgov.com/j/1604908824>
Meeting ID: 160 490 8824

1. Call to Order
2. Roll Call
3. Approval of Minutes – April 13, 2023
4. Business Topics:
 - a. Paint-Like Coating Placed on Top of Roof Membrane
 - b. Roof Uplift Calculations
5. Set next meeting date (if necessary)
6. Adjournment

Attachments:

1. HydroStop PremiumCoat System over Steel Decks [Item 4a(1)]
2. HydroStop PremiumCoat System over Recover Decks [Item 4a(2)]
3. GAF Roof Coating Maintenance Systems [Item 4a(3)]
4. HydroStop PremiumCoat Roof Maintenance Coating Systems [Item 4a(4)]
5. GAF Acrylic Coatings over Concrete Decks [Item 4a(5)]
6. Roof Uplift Calculations (Agenda Item 4b)

**BROWARD COUNTY BOARD OF RULES & APPEALS
ROOFING COMMITTEE MINUTES
APRIL 13, 2023**

Zoom Information:

<https://broward-org.zoomgov.com/j/1611145256?pwd=b0pieGtISWVmNGFRSWpsS0laLzBDZz09>

Meeting ID: 161 114 5256

1. A virtual meeting of the Board's Roofing Committee was held on Thursday, April 13, 2023, via Zoom. The meeting was called to order by Chairman Famularo at 2 p.m. The roll was called as follows.

2. Roll Call:

John Famularo, Chair
Guillermo Echezabal
Steve Festa
Ernest Fontan
Tim Graboski
Adam LeBlanc
Mary Beth Reed

3. Approval of Minutes – August 10, 2022

Mr. Fontan made a motion, and Mr. Lavrich seconded the motion to approve the August 10, 2022, minutes as submitted. The motion was carried out by a unanimous vote of 7-0.

4. Business Topics:

a. Tile Underlayment Exposure – extending time for underlayments that otherwise qualify as a roof and are UV resistant

Mr. Jack Morell, Chief Structural Code Compliance Officer, advised that Ms. Reed requested this item.

Ms. Reed asked for clarification on the limit for tile underlayment exposure. It was noted that the manufacturer's Notice of Acceptance is generally 180 days but if the manufacturer is agreeable to a longer period of time, that period would be acceptable. Mr. Graboski commented the question is whether it is listed in the engineering report that is substantiating the product approval, whether it is a Miami-Dade Notice of Acceptance (NOA) or a Florida Product Approval. In order to be used in Florida it would require a Florida Product Approval with HVHZ or Miami-Dade Notice of Acceptance (NOA). A lot of manufacturers do not have a Miami-Dade NOA. He asked if it does not provide in the Product Approval for an extended exposure time, would it default to 180 days. Ms. Reed felt it would be possible to get a letter from the manufacturer as to how long the underlayment could be exposed. Further discussion ensued wherein Mr. Michael Guerasio, Chief Structural Code Compliance Officer, confirmed if the Product

Approval or Notice of Acceptance specifies a lesser period of time, it would not be possible to default to 180 days. The Product Approval of NOA would have to be followed.

b. Roof to Wall Requirements for Roofing Contractors

Mr. Festa indicated that he raised this topic. He wanted clarification on how to handle situations where it is required to secure a licensed general contractor when it is over 15% of the project cost instead of working directly with the customer. Chairman Famularo indicated that for anything over \$300,000, an engineering report is required. Most houses are over \$300,000. If it is over 15% and the homeowner is agreeable, his roofing company hires the contractor who secures the permit and addresses the straps or nails. Mr. Graboski advised that working with the Florida Roofing and Sheet Metal Association, his company prepares a supplemental proposal for the wind mitigation with their cost for that part and has an engineer do the inspections. The homeowner signs as to agreement and that information is submitted with the roofing permit application. Mr. Festa did not think the roofing contractor should be involved and required to uphold this rule. It should be left with the homeowner who would be handling the hiring. Mr. Graboski agreed and indicated it was brought to the attention of the Florida Building Commission but unsuccessfully. The Office of Insurance Regulation was responsible for having this incorporated into the code. It is insurance driven.

c. City of Plantation Building Application Process Timeline

Mr. Festa indicated that he submitted a roofing permit application to the City of Plantation and had to wait six to eight weeks. There were no changes. Mr. Morell advised that he checked with the City of Plantation, and they contend that roofing permit applications are approved in three to five days. He asked that he be contacted if it happens again, and he will pursue it with the City of Plantation. In response to Chairman Famularo, Mr. Morell indicated that there is no current legislation concerning turnaround and this is an unusual occurrence. Mr. Festa offered to provide the permit number.

d. Third Party Video Inspection Providers Not Allowed in Broward County

Mr. Festa advised that he requested this be placed on the agenda. He believed that most of the state is onboard, but Broward is not.

Chairman Famularo detailed a virtual inspection process with which he was involved in Port St. Lucie last week. It was done by video at a scheduled appointment time.

Mr. Morell advised that a flat roof of 1500 square feet may be inspected virtually.

Mr. Lavrich asked who is taking responsibility for the inspection and whether the code is being met. He asked if it is the camera or the camera man. He asked if the camera man is a licensed inspector or licensed engineer. Mr. Festa indicated for the company with which he is familiar it is a licensed engineer doing the video. Mr. Lavrich commented that the video is not necessary if the licensed engineer is conducting the inspection. Mr. Festa clarified that his company employee is doing the video with the licensed engineer on the phone. Mr. LeBlanc felt it is not possible to see what is necessary to see through a cellular phone camera. Mr. Echezabal noted that a contractor representative of Citizens Property Insurance Corporation takes photos that are given the Citizens where a decision is made as to whether it is

insurable.

Dr. Ana Barbosa, Administrative Director, pointed out the wide range of inspections performed by a building department. There are only four where video would be acceptable. Staff does not advocate for virtual inspections. For every great money saving story, she could share three others where it did not work out.

Mr. Festa commented that one challenge is being able to reach and speak with inspectors, i.e., on-demand communication. There is an inspector staffing shortage. Some cities are not open five days a week. He agreed that there needs to be accountability and a standard. In Plantation he is required to call by noon on Wednesday in order to get an inspection before the weekend because the City of Plantation is not open on Fridays. He is interested in expeditiously securing jobs before any rainfall.

Mr. Echezabal commented that his company uses drones on occasion when just a quick inspection is needed. Sometimes someone from the company goes to the jobsite after-the-fact if there is any kind of discrepancy. It seems to be very popular.

Chairman Famularo commented that the roofing company can have the engineer perform the inspections. Mr. Festa explained the service he is speaking about is basically hiring a third party to conduct all of the inspections in lieu of the building department inspectors. The third party would report back the inspection results to the building department. Mr. LeBlanc said that would be a private provider arrangement which is entirely different than virtual inspections. A brief discussion followed about special inspectors and that there is a provision for that in the code. Mr. Lavrich noted that most high rises are handled by special inspectors because building department cannot handle that volume. Mr. Morell concurred. He went on to explain that arrangements have to be made with the building official and it is very possible to work it out.

Paint-Like Coating Placed on Top of Roof Membrane

Mr. Morell commented that the building officials meet every month. At the last meeting something was raised concerning a paint-like coating placed directly on top of the membrane of the roof. The question was whether a permit is required. Ms. Reed explained that there are two types of coating. There are fabric-reinforced systems that are liquid applied. In this case, it is a re-roof or a go-over and would require a permit. Then there are coatings that could be fabric reinforced, but most often they are not. Different areas have different rules. For instance, Miami requires a permit even for a coating. She did not know if a permit is required in Broward. If a permit is required and it is considered a re-roof or a go-over, a moisture survey and an uplift test would be necessary. There are Notice of Acceptances (NOA) for liquid-applied roofing and for just waterproofing coatings. Mr. Morell asked if Ms. Reed could provide the NOA information on each of the types. Mr. Morell felt the type that is tying membranes together would definitely need a permit. Chairman Famularo commented that the permit question is asked all of the time with respect to silicone coatings. Coating companies that are providing a warranty want to have a moisture test done. If moisture is detected in an area, his company then secures a permit for the repair of the area.

Mr. Festa questioned whether the insurance company would consider it a replacement

or maintenance and do they rely on the building department's ruling. Ms. Reed indicated that there is a lot of variation amongst the insurance industry. Chairman Famularo commented that on big jobs his company pulls a permit because it demonstrates to the insurance company work was done.

5. Set next meeting date

Ms. Reed was interested in hearing the decision about permitting for a coating versus liquid-applied roofing.

There was consensus to look for a meeting in sixty days. Wednesday or Thursday afternoon was preferable.

6. Adjournment – The meeting adjourned at 2:40 p.m.

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

GAF

**1 Campus Dr.
Parsippany, NJ 07054**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: HydroStop® PremiumCoat® System over Steel Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA 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 NOA renews and revises NOA No. 16-0308.04 and consists of pages 1 through 12.
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 18-0321.10
Expiration Date: 06/22/23
Approval Date: 06/28/18
Page 1 of 12

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Liquid Applied Roof System
Deck Type:	Steel
Material:	Elastomeric
Maximum Design Pressure:	-75 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
United Cleaning Concentrate	1 & 5 Gallon	Proprietary	Biodegradable cleaning agent with specific functional ingredients for degreasing and removing soils and biological residues for proper cleaning of roof surfaces.
Acrylex 400 Primer	2 & 5 Gallon	Proprietary	Primer used in direct to metal applications to stabilize and protect metal surfaces.
HydroStop® BarrierGuard® Waterproofing	2 & 5 Gallon	Proprietary	Priming and waterproofing compound for masonry surfaces.
SureBond Primer	2 & 5 Gallon	Proprietary	Acrylic primer used for sealing masonry, metal and chalky surfaces.
UniBase Primer	5 Gallon	Proprietary	Low viscosity, highly penetrating, acrylic polymer primer.
XR-2000 Primer	5 Gallon	Proprietary	Water-based Acrylic primer for Kynar coated metal
Lock-Down Primer	1 & 5 Gallon	Proprietary	Moisture-Cure Urethane Primer For Corrosion Protection On Metal Surfaces
FlexSeal™ Sealant	1 & 5 Gallon or 1 qt. Tube	TAS 139	Solvent-based, elastomeric sealant.
HydroStop® PremiumCoat® Foundation Coat	2 & 5 Gallon	Proprietary	Acrylic elastomeric waterproofing compound used as a base layer in the HydroStop® PremiumCoat® System.
HydroStop® PremiumCoat® Fabric	Rolls	Proprietary	Reinforcing fabric for the HydroStop® PremiumCoat® System and/or HydroStop® BarrierGuard® Waterproofing.
HydroStop® PremiumCoat® Butter Grade Flashing	2 & 5 Gallon	Proprietary	Acrylic elastomeric sealant for bridging gaps, filling voids and low lying roof areas.
United Coatings™ Roof Mate TCM Flashing	2 & 5 Gallon	TAS 139	Water based, high solids, elastomeric sealant.
United Coatings™ Roof Mate Liquid Fabric	5 & 55 Gallon	TAS 139	Water based, sprayable highly elastic flashing compound.



NOA No.: 18-0321.10
 Expiration Date: 06/22/23
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TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
HydroStop® PremiumCoat® Finish Coat	2 & 5 Gallon	ASTM D6083	Acrylic elastomeric waterproofing compound used as a top layer in the HydroStop® PremiumCoat® System.
HydroStop® TrafficCoat Deck Coating	2 & 5 Gallon	Proprietary	Acrylic elastomeric waterproofing compound used as a non-skid surfacing layer over the HydroStop® PremiumCoat® System.
GAF 2-Part Roofing Adhesive	1:1 Applicator	Proprietary	A two-part VOC free polyurethane foam adhesive
RUBEROID® Mop Smooth 1.5	39.37" (1 meter) Wide	ASTM D6164 Type 1S	Smooth surfaced mop applied SBS base or ply sheet reinforced with a polyester mat.
RUBEROID® 20 Smooth	39.37" (1 meter) Wide	ASTM D6163 Type 1S	SBS polymer-modified asphalt base or ply sheet reinforced with a fiberglass mat.
RUBEROID® HW Smooth	39.37" (1 meter) Wide	ASTM D6164 Type 1S	Smooth surfaced torch applied SBS base or ply sheet reinforced with a polyester mat.
RUBEROID® HW 25 Smooth	39.37" (1 meter) Wide	ASTM D6163 Type 1S	Smooth surfaced torch applied SBS base or ply sheet reinforced with a fiberglass mat.
Matrix™101 Premium SBS Membrane Adhesive	5 Gallon	ASTM D3019	Squeegee and spray grade modified asphalt adhesive for use in adhering sand surfaced SBS modified bitumen roofing membranes.

APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
EnergyGuard™ Polyiso Insulation	Polyiso Insulation	GAF
EnergyGuard™ Tapered Polyiso Insulation	Polyiso Insulation	GAF
SECUROCK® Gypsum-Fiber Roof Board	Gypsum Board	USG Corporation
Dens Deck® Prime	Gypsum Board	Georgia-Pacific Gypsum LLC



NOA No.: 18-0321.10
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APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1	Drill-Tec™ 3” Standard Steel Plate	Galvalume® coated steel stress plate for use with approved Drill-Tec™ fasteners.	3" Round	GAF
2	Drill-Tec™ 3” Steel Plate	Round Galvalume® steel stress plate with reinforcing ribs and recessed for use with Drill-Tec™ fasteners.	3" Round	GAF
3	Drill-Tec™ 3 in. Ribbed Galvalume Plate (Flat)	Round Galvalume® plated steel stress plate with reinforcing ribs for use with Drill-Tec™ fasteners.	3" Round	GAF
4	Drill-Tec™ AccuTrac® Flat Plate	A2-SS aluminized steel plate for use with Drill-Tec™ fasteners.	3" square; .017" thick	GAF
5	Drill-Tec™ AccuTrac® Recessed Plate	Galvalume® steel plate with recess for use with Drill-Tec™ fasteners.	3" square; .017" thick	GAF
6	Drill-Tec™ #12 Fastener	Phillips head, modified buttress thread, pinch point, carbon steel fastener for use in steel or wood decks. With CR-10 coating. Available with a pinch point or drill point.	#12 x 8" max. length, #3 Phillips head.	GAF
7	Drill-Tec™ #14 Fastener	Truss head, self-drilling, pinch point, high thread fastener for use in steel, wood or concrete decks.	#14 x 16" max. length, #3 Phillips head.	GAF
8	Drill-Tec™ ASAP 3S	Drill-Tec #12 Fastener with Drill-Tec 3" Standard Steel Plate.	See components	GAF



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Trinity ERD	GAF-SC10845.04.16	TAS 114	04/26/16
	G31360.03.10	ASTM D6164	03/31/10
	G34140.04.11-2	ASTM D6163	04/25/11
	G40630.01.14-1	ASTM D6164	01/06/14
	G40630.01.14-2A	ASTM D6164	01/07/14
PRI Construction Materials Technologies LLC	EATC-013-02-01	ASTM D3019	09/17/14
	GAF-369-02-01	ASTM C1289	10/22/12
	GAF-464-02-01	ASTM C1289	02/06/14
	GAF-629-02-01	ASTM C1289	03/01/16
	GAF-658-02-01	Proprietary	06/07/16
	GAF-659-02-01	Proprietary	06/03/16
	GAF-660-02-01	Proprietary	06/03/16
	GAF-661-02-01	Proprietary	06/03/16
	GAF-662-02-01	Proprietary	06/07/16
	GAF-664-02-01	Proprietary	06/03/16
	GAF-665-02-01	Proprietary	06/03/16
	GAF-667-02-01	TAS 139	07/01/16
	GAF-668-02-01	TAS 139	07/01/16
	GAF-671-02-01	TAS 139	07/01/16
	GAF-674-02-01	Proprietary	06/01/16
	GAF-675-02-01	Proprietary	06/01/16
	GAF-676-02-01	Proprietary	06/01/16
	GAF-678-02-01	Proprietary	07/14/16
	GAF-679-02-01	Proprietary	06/01/16
	GAF-680-02-01	Proprietary	06/01/16
FM Approvals	HSI-007-02-01	ASTM D6083	05/20/16
	HSI-009-02-01	ASTM D6083	05/20/16
	3029832	FM 4470	05/11/07
	3032811	FM 4470	12/11/08
	3038278	FM 4470	11/18/11
	3041005	FM 4470	03/31/11
	3041769	FM 4470	09/27/12
	3042905	FM 4470	01/10/12
	3044541	FM 4470	04/04/12
	3046081	FM 4470	02/13/13
	3047636	FM 4470	08/08/13
	3048496	FM 4470	12/19/13
	FM Letter	FM 4470	12/06/11
	FM 797-03825-267	FM 4470	07/14/08
	FM 797-09016-267	FM 4470	12/12/13
Underwriters Laboratories	R26758	UL 790	02/09/16

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies</u>	<u>Date</u>
Robert Nieminen, P.E.	Signed/Sealed Calculations	C(1), C(2), C(3)	04/26/16



NOA No.: 18-0321.10
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APPROVED ASSEMBLIES

Membrane Type: Liquid Applied Membrane

Deck Type 2I: Steel, Insulated

Deck Description: Min. 22 ga., Grade 33, Type B, 1.5 in. deep, wide rib steel deck secured 6 in. o.c. at each support with 5/8 in. dia. puddle welds. Supports are spaced maximum 72 in. o.c. The deck side laps are secured maximum 24 in. o.c. with Teks II screws.

This Tested Assembly has been analysed for allowable deck stress. See Evidence Submitted Table.

System Type C(1): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently fully adhered to insulation.

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer’s specifications. The following are minimum installation guidelines. Consult the manufacturer’s specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

One or more layers of the following insulations.

Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation Minimum 1.5” thick	1, 2, 3, 4, 5, 6, 7, 8	1:1.45 ft²

Note: Insulation shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Insulation Joint and Base Sheet Lap Treatment Note: Top insulation layer joints or base sheet laps shall be treated as follows. The insulation joints shall not be treated when the optional base sheet is present.

HydroStop® PremiumCoat® Foundation Coat is brush applied over all top insulation layer joints (when the optional base sheet is NOT present) or base sheet seams (when the optional base sheet is present) in a 6 in. width at a rate of 1.25 gal./sq. centered about each joint or seam. 6 in. wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal/sq.

Base Sheet: RUBEROID® Mop Smooth 1.5 or RUBEROID® 20 Smooth is adhered to the insulation with GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs/sq. The minimum 3 in. wide base sheet side laps are fully torch sealed or hot air welded.

OR

RUBEROID® 20 Smooth is adhered to the insulation with Matrix™ 101 Premium SBS Membrane Adhesive applied at 1.5 – 2.0 gal/sq. The minimum 3 in. wide base sheet side laps are fully torch sealed or hot air welded.



Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq.
HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq.
Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer's installation instructions.

**Maximum Design
Pressure:** -75 psf. (See General Limitation #7)



Membrane Type: Liquid Applied Membrane

Deck Type 2I: Steel, Insulated

Deck Description: Min. 22 ga., Grade 33, Type B, 1.5 in. deep, wide rib steel deck secured 6 in. o.c. at each support with 5/8 in. dia. puddle welds. Supports are spaced maximum 72 in. o.c. The deck side laps are secured maximum 24 in. o.c. with Tek's II screws.

This Tested Assembly has been analysed for allowable deck stress. See Evidence Submitted Table.

System Type C(2): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently fully adhered to insulation.

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

One or more layers of the following insulations.

Base Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation Minimum 1" thick	N/A	N/A
Top Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft²
Dens Deck® Prime Minimum ¼" thick	1, 3, 4, 6, 7, 8	1:1.45 ft ²

Note: All layers shall be simultaneously fastened; see top layer for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Insulation Joint and Base Sheet Lap Treatment Note: Top insulation layer joints or base sheet laps shall be treated as follows. The insulation joints shall not be treated when the optional base sheet is present.

HydroStop® PremiumCoat® Foundation Coat is brush applied over all top insulation layer joints (when the optional base sheet is NOT present) or base sheet seams (when the optional base sheet is present) in a 6 in. width at a rate of 1.25 gal./sq. centered about each joint or seam. 6 in. wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop PremiumCoat® Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal/sq.

Base Sheet: RUBEROID® 20 Smooth is adhered to the top insulation layer with Matrix™ 101 Premium SBS Membrane Adhesive applied at 1.5 – 2.0 gal/sq. The minimum 3 in. wide base sheet side laps are fully torch sealed or hot air welded.

(Optional)
OR
RUBEROID® HW Smooth or RUBEROID® HW 25 Smooth torch adhered to the top insulation layer within minimum 3" wide side laps.

OR
RUBEROID® Mop Smooth 1.5 or RUBEROID® 20 Smooth is adhered to the top insulation layer with GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs/sq. The minimum 3 in. wide base sheet side laps are fully torch sealed or hot air welded.



Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq.
HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq.
Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer's installation instructions.

**Maximum Design
Pressure:** -67.5 psf. (See General Limitation #7)



Membrane Type: Liquid Applied Membrane

Deck Type 2I: Steel, Insulated

Deck Description: Min. 22 ga., Grade 33, Type B, 1.5 in. deep, wide rib steel deck secured 6 in. o.c. at each support with 5/8 in. dia. puddle welds. Supports are spaced maximum 72 in. o.c. The deck side laps are secured maximum 24 in. o.c. with Tekes II screws.

This Tested Assembly has been analysed for allowable deck stress. See Evidence Submitted Table.

System Type C(3): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently fully adhered to insulation.

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

One or more layers of the following insulations.

Base Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation Minimum 1" thick	N/A	N/A
Top Insulation Layer: SECUROCK® Gypsum-Fiber Roof Board Minimum ¼" thick	1, 3, 4, 6, 7, 8	1:1.45 ft ²

Note: All layers shall be simultaneously fastened; see top layer for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Insulation Joint and Base Sheet Lap Treatment Note: Top insulation layer joints or base sheet laps shall be treated as follows. The insulation joints shall not be treated when the optional base sheet is present. HydroStop® PremiumCoat® Foundation Coat is brush applied over all top insulation layer joints (when the optional base sheet is NOT present) or base sheet seams (when the optional base sheet is present) in a 6 in. width at a rate of 1.25 gal./sq. centered about each joint or seam. 6 in. wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop PremiumCoat® Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal/sq.

**Base Sheet:
(Optional)** RUBEROID® 20 Smooth is adhered to the top insulation layer with Matrix™ 101 Premium SBS Membrane Adhesive applied at 1.5 – 2.0 ga./sq. The minimum 3 in. wide base sheet side laps are fully torch sealed or hot air welded.

OR

RUBEROID® HW Smooth or RUBEROID® HW 25 Smooth is torch adhered to the top insulation layer within minimum 3" wide side laps.

OR

RUBEROID® Mop Smooth 1.5 or RUBEROID® 20 Smooth is adhered to the top insulation layer with GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs/sq. The minimum 3 in. wide base sheet side laps are fully torch sealed or hot air welded.



- Membrane:** HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq.
HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq.
Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.
- Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer’s installation instructions.
- Maximum Design
Pressure:** -75 psf (See General Limitation #7)

MANUFACTURER’S REQUIREMENTS:

1. Contractor must be a GAF HydroStop® “Approved Applicator”, trained and familiar with the details and specifications published by the manufacturer. Proof of this qualification shall be provided in written form from the manufacturer.
2. Refer to GAF’s published installation instructions for detailed installation requirements and recommendations.



STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117; calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer.
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt and/or adhesives panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 18-0321.10
Expiration Date: 06/22/23
Approval Date: 06/28/18
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

GAF
1 Campus Dr.
Parsippany, NJ 07054

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: HydroStop® PremiumCoat® System over Recover Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA 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 NOA renews and revises NOA No. 16-0308.05 and consists of pages 1 through 21.
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 19-0226.06
Expiration Date: 05/27/24
Approval Date: 05/23/19
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ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Liquid Applied Membrane
Deck Type:	Recover
Material:	Elastomeric
Maximum Design Pressure:	See specific assemblies herein

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
United Cleaning Concentrate	1 & 5 Gallon	Proprietary	Biodegradable cleaning agent with specific functional ingredients for degreasing and removing soils and biological residues for proper cleaning of roof surfaces.
Acrylex 400 Multisurface Roof Primer	1 & 5 Gallon	Proprietary	Acrylic latex primer for use over metal, masonry and wood surfaces.
HydroStop® BarrierGuard® Waterproofing	2 & 5 Gallon	Proprietary	Priming and waterproofing compound for masonry surfaces.
SureBond Primer	2 & 5 Gallon	Proprietary	Acrylic primer used for sealing masonry, metal and chalky surfaces.
CleanAct Rinsable Primer	2 & 5 Gallon	Proprietary	Water based, rinseable primer used directly on rubber roof (EPDM) applications.
Adhere-It® II Primer	2 & 5 Gallon	Proprietary	Water based, rinseable primer used directly on rubber roof (EPDM) applications.
TPO Red Primer	5 Gallon	Proprietary	Solvent-based primer for TPO membranes.
UniBase Primer	5 Gallon	Proprietary	Low viscosity, highly penetrating, acrylic polymer primer.
XR-2000 Primer	5 Gallon	Proprietary	Water-based Acrylic primer for Kynar coated metal
Lock-Down Primer	1 & 5 Gallon	Proprietary	Moisture-Cure Urethane Primer For Corrosion Protection On Metal Surfaces
FlexSeal™ Sealant	1 & 5 Gallon or 1 qt. Tube	TAS 139	Solvent-based, elastomeric sealant.
HydroStop® PremiumCoat® Foundation Coat	2 & 5 Gallon	Proprietary	Acrylic elastomeric waterproofing compound used as a base layer in the PremiumCoat® System.



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TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
HydroStop® PremiumCoat® Fabric	Rolls	Proprietary	Reinforcing fabric for the PremiumCoat® System and/or BarrierGuard®.
HydroStop® PremiumCoat® Butter Grade Flashing	2 & 5 Gallon	Proprietary	Acrylic elastomeric sealant for bridging gaps, filling voids and low lying roof areas.
HydroStop® PremiumCoat® Finish Coat	2 & 5 Gallon	ASTM D6083	Acrylic elastomeric waterproofing compound used as a top layer in the PremiumCoat® System.
HydroStop® TrafficCoat Deck Coating	2 & 5 Gallon	Proprietary	Acrylic elastomeric waterproofing compound used as a non-skid surfacing layer over the PremiumCoat® System.
GAF 2-Part Roofing Adhesive	1:1 Applicator	Proprietary	A two-part VOC free polyurethane foam adhesive
RUBEROID® Mop Smooth 1.5	39.37" (1 meter) Wide	ASTM D6164 Type 1S	Smooth surfaced mop applied SBS base or ply sheet reinforced with a polyester mat.
RUBEROID® 20 Smooth	39.37" (1 meter) Wide	ASTM D6163 Type 1S	SBS polymer-modified asphalt base or ply sheet reinforced with a fiberglass mat.
RUBEROID® HW Smooth	39.37" (1 meter) Wide	ASTM D6164 Type 1S	Smooth surfaced torch applied SBS base or ply sheet reinforced with a polyester mat.
RUBEROID® HW 25 Smooth	39.37" (1 meter) Wide	ASTM D6163 Type 1S	Smooth surfaced torch applied SBS base or ply sheet reinforced with a fiberglass mat.
Matrix™ 101 Premium SBS Membrane Adhesive	5 Gallon	ASTM D3019	Squeegee and spray grade modified asphalt adhesive for use in adhering sand surfaced SBS modified bitumen roofing membranes.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ Polyiso Insulation	Polyiso Insulation	GAF
EnergyGuard™ Tapered Polyiso Insulation	Polyiso Insulation	GAF
EnergyGuard™ Ultra Polyiso Insulation	Polyiso Insulation	GAF
EnergyGuard™ Ultra Tapered Polyiso Insulation	Polyiso Insulation	GAF
EnergyGuard™ RA Polyiso Insulation	Polyiso Insulation	GAF
Dens Deck® Roof Board	Gypsum Board	Georgia Pacific Gypsum, LLC
Dens Deck® Prime Roof Board	Gypsum Board	Georgia Pacific Gypsum, LLC



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APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1	Drill-Tec™ 3" Standard Steel Plate	Galvalume® coated steel stress plate for use with approved Drill-Tec™ fasteners.	3" Round	GAF
2	Drill-Tec™ 3" Steel Plate	Round Galvalume® steel stress plate with reinforcing ribs and recessed for use with Drill-Tec™ fasteners.	3" Round	GAF
3	Drill-Tec™ 3 in. Ribbed Galvalume Plate (Flat)	Round Galvalume® plated steel stress plate with reinforcing ribs for use with Drill-Tec™ fasteners.	3" Round	GAF
4	Drill-Tec™ AccuTrac® Flat Plate	A2-SS aluminized steel plate for use with Drill-Tec™ fasteners.	3" square; .017" thick	GAF
5	Drill-Tec™ AccuTrac® Recessed Plate	Galvalume® steel plate with recess for use with Drill-Tec™ fasteners.	3" square; .017" thick	GAF
6	Drill-Tec™ #12 Fastener	Phillips head, modified buttress thread, pinch point, carbon steel fastener for use in steel or wood decks. With CR-10 coating. Available with a pinch point or drill point.	#12 x 8" max. length, #3 Phillips head.	GAF
7	Drill-Tec™ #14 Fastener	Truss head, self-drilling, pinch point, high thread fastener for use in steel, wood or concrete decks.	#14 x 16" max. length, #3 Phillips head.	GAF
8	Drill-Tec™ ASAP 3S	Drill-Tec #12 Fastener with Drill-Tec 3" Standard Steel Plate.	See components	GAF



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Atlantic & Caribbean Roof Consulting, LLC	09-021	TAS 114	10/28/09
	09-022	TAS 114	10/29/09
	09-023	TAS 114	10/29/09
	11-004	TAS 114	03/21/11
	11-016	TAS 114	04/07/11
Trinity ERD	11-019	TAS 114	04/08/11
	4697.12.00-1	TAS 114	12/07/00
	GAF-SC10845.04.16	TAS 114	04/26/16
	G31360.03.10	ASTM D6164	03/31/10
	G34140.04.11-2	ASTM D6163	04/25/11
	G40630.01.14-1	ASTM D6164	01/06/14
	G40630.01.14-2A	ASTM D6164	01/07/14
	MCRF Letter 4697.12.00-1	TAS 105	05/09/16
	MCRF Letter GAF-SC10845.04.16	TAS 105	04/29/16
	GAF-SC13105.03.17-R1	ASTM D6164	03/23/17
PRI Construction Materials Technologies LLC	EATC-013-02-01	ASTM D3019	09/17/14
	GAF-369-02-01	ASTM C1289	10/22/12
	GAF-417-02-01	ASTM C1289	05/28/13
	GAF-464-02-01	ASTM C1289	02/06/14
	GAF-508-02-01	Proprietary	03/12/14
	GAF-559-02-03	TAS 117	10/16/14
	GAF-661-02-01	Proprietary	06/03/16
	GAF-665-02-01	Proprietary	06/03/16
	GAF-629-02-01	ASTM C1289	03/01/16
	GAF-654-02-01	TAS 114	05/19/16
	GAF-658-02-01	Proprietary	06/07/16
	GAF-659-02-01	Proprietary	06/03/16
	GAF-660-02-01	Proprietary	06/03/16
	GAF-662-02-01	Proprietary	06/07/16
	GAF-663-02-01	Proprietary	06/03/16
	GAF-664-02-01	Proprietary	06/03/16
	GAF-667-02-01	TAS 139	07/01/16
	GAF-668-02-01	TAS 139	07/01/16
	GAF-671-02-01	TAS 139	07/01/16
	GAF-674-02-01	Proprietary	06/01/16
	GAF-675-02-01	Proprietary	06/01/16
	GAF-676-02-01	Proprietary	06/01/16
	GAF-678-02-01	Proprietary	07/14/16
	GAF-679-02-01	Proprietary	06/01/16
	GAF-680-02-01	Proprietary	06/01/16
	GAF-687-02-01	ASTM C794	06/06/16
	GAF-688-02-01	ASTM C794	06/06/16
	GAF-693-02-01	ASTM D1876	06/22/16
	GAF-693-02-02	ASTM D1876	06/22/16



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
PRI Construction Materials Technologies LLC (cont'd)	GAF-777-02-01	ASTM D6083	09/18/17
	GAF-819-02-01	ASTM C1289	02/15/18
	HSI-007-02-01	ASTM D6083	05/20/16
	HSI-009-02-01	ASTM D6083	05/20/16
	HSI-010-02-01	ASTM D6083	03/25/11
	HSI-011-02-01	ASTM D6083	03/25/11
	QCP-018-02-01	TAS 114	11/14/14
FM Approvals	3000150	FM 4470	09/22/99
	3023606	FM 4470	10/18/06
	3029832	FM 4470	05/11/07
	3031350	FM 4470	09/27/07
	3032811	FM 4470	12/11/08
	3038278	FM 4470	11/18/11
	3041005	FM 4470	03/31/11
	3041769	FM 4470	09/27/12
	3042905	FM 4470	01/10/12
	3044541	FM 4470	04/04/12
	3045166	FM 4470	07/24/12
	3046081	FM 4470	02/13/13
	3047636	FM 4470	08/08/13
	3048496	FM 4470	12/19/13
	FM 797-03825-267	FM 4470	07/14/08
	FM 797-09016-267	FM 4470	12/12/13
	FM Letter	FM 4470	12/06/11
	FM Letter 3048066	FM4470	12/13/13
	FM RR204674	FM 4470	03/23/16
	UL LLC	R26758	UL 790

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies</u>	<u>Date</u>
Trinity ERD	SC10845.04.16, Table 3C	C(3), C(4), C(5)	04/26/16



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APPROVED ASSEMBLIES:

Membrane Type: Liquid Applied Membrane

Deck Type 7I: Recover, Insulated

System Type A(1): All layers of insulation are adhered to the existing roof. Membrane is subsequently fully adhered to the insulation.

Deck Description: Structural Concrete, Recover over an Existing Granular Surfaced Roof

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer’s specifications. The following are minimum installation guidelines. Consult the manufacturer’s specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

One or more layers of the following insulations.

Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft²
Dens Deck® Prime Minimum 1/4” thick	N/A	N/A

Note: Insulation is adhered with with OlyBond 500® or OlyBond 500® Green applied in ¾ - 1.0” wide ribbons spaced 12” o.c. Please refer to Roofing Application Standard (RAS) 117 for insulation attachment.

Insulation Joint Treatment Note: HydroStop® PremiumCoat® Foundation Coat is brush applied over all top insulation layer joints in a 6 in. width at a rate of 1.25 gal./sq. centered about each joint. 6 in. wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal./sq.

Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq.
HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq.
Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer’s installation instructions.

**Maximum Design
Pressure:** Meets -172.5 psf (See General Limitation #9)



Membrane Type: Liquid Applied Membrane

Deck Type 7I: Recover, Insulated

System Type A(2): All layers of insulation are adhered to the existing roof. Membrane is subsequently fully adhered to the insulation.

Deck Description: Structural Concrete, Recover over an Existing Granular Surfaced Roof System or Smooth Surfaced Built-Up Roof (BUR) System

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

One or more layers of the following insulations.

Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation Minimum 1" thick	N/A	N/A

Note: Insulation is adhered with OlyBond 500® or OlyBond 500® Green applied in 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard (RAS) 117 for insulation attachment.

Insulation Joint Treatment Note: HydroStop® PremiumCoat® Foundation Coat is brush applied over all top insulation layer joints in a 6 in. width at a rate of 1.25 gal./sq. centered about each joint. 6 in. wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal./sq.

Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq. HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq. Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer's installation instructions.

**Maximum Design
Pressure:** -160 psf (See General Limitation #9)



Membrane Type: Liquid Applied Membrane

Deck Type 7I: Recover, Insulated

System Type C(1): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently fully adhered to insulation.

Deck Description: Minimum 19/32" thick plywood secured 6" o.c. at panel end and intermediate supports with 8d ring shank nails to supports spaced maximum 24" o.c.

*The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 160 lbf. when tested with Drill-Tec™ #12 Fasteners or Drill-Tec #14 Fasteners installed through to the deck in accordance with TAS 105.

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

One or more layers of the following insulations.

Base Insulation Layer (Optional):

**EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation
Minimum 1" thick**

**Insulation Fasteners
(Table 3)**

**Fastener
Density/ft²**

N/A

N/A

Top Insulation Layer:

**Insulation Fasteners
(Table 3)**

**Fastener
Density/ft²**

Dens Deck®

Minimum 0.25" thick

1, 6, 7, 8

1:1.33 ft²

Note: All layers shall be simultaneously fastened; see top layer for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Insulation Joint Treatment Note: HydroStop® PremiumCoat® Foundation Coat is brush applied over all top insulation layer joints in a 6 in. width at a rate of 1.25 gal./sq. centered about each joint. 6 in. wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal./sq.

Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq.

HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq.

Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer's installation instructions.

Maximum Design

Pressure: -60 psf (See General Limitation #7)



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Membrane Type: Liquid Applied Membrane

Deck Type 7I: Recover, Insulated

System Type C(2): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently fully adhered to insulation.

Deck Description: Minimum 15/32" thick plywood secured 6" o.c. at panel end and intermediate supports with 8d ring shank nails to supports spaced maximum 24" o.c.

*The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 180 lbf. when tested with Drill-Tec™ #12 Fasteners or Drill-Tec #14 Fasteners installed through to the deck in accordance with TAS 105.

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

One or more layers of the following insulations.

Base Insulation Layer (Optional):	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation Minimum 1" thick	N/A	N/A
Top Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft²
Dens Deck® Prime Minimum 0.25" thick	1, 6, 7, 8	1:1.33 ft ²

Note: All layers shall be simultaneously fastened; see top layer for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Insulation Joint Treatment Note: HydroStop® PremiumCoat® Foundation Coat is brush applied over all top insulation layer joints in a 6 in. width at a rate of 1.25 gal./sq. centered about each joint. 6 in. wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal./sq.

Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq. HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq. Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer's installation instructions.

**Maximum Design
Pressure:** -67.5 psf (See General Limitation #7)



- Membrane Type:** Liquid Applied Membrane
- Deck Type 7I:** Recover, Insulated
- System Type C(3):** All layers of insulation are mechanically attached to roof deck. Membrane is subsequently fully adhered to insulation.
- Deck Description:** Structural Concrete or Min. 22 ga., Grade 33, Type B, 1.5 in. deep, wide rib steel deck secured to supports spaced maximum 72 in. o.c. **The thickness of the existing roof assembly as measured from the top of the steel deck ribs to the surface of the roof cover shall be minimum 1”.**
 *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 218 lbf. when tested with Drill-Tec™ #12 Fasteners (steel deck only) or Drill-Tec™ #14 Fasteners (steel or structural concrete deck) installed through to the deck in accordance with TAS 105.
This Tested Assembly has been analysed for allowable deck stress. See Evidence Submitted Table.

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer’s specifications. The following are minimum installation guidelines. Consult the manufacturer’s specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

One or more layers of the following insulations.

Insulation Layer:	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation Minimum 1.5” thick	1, 2, 3, 4, 5, 6, 7, 8	1:1.45 ft²

Note: Insulation shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Insulation Joint and Base Sheet Lap Treatment Note: Top insulation layer joints or base sheet laps shall be treated as follows. The insulation joints shall not be treated when the optional base sheet is present. HydroStop® PremiumCoat® Foundation Coat is brush applied over all top insulation layer joints (when the optional base sheet is NOT present) or base sheet seams (when the optional base sheet is present) in a 6 in. width at a rate of 1.25 gal./sq. centered about each joint or seam. 6 in. wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal/sq.

- Base Sheet:** RUBEROID® Mop Smooth 1.5 or RUBEROID® 20 Smooth is adhered to the insulation with GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs/sq. The minimum 3” wide base sheet side laps are fully hot air welded.
- (Optional)**
- OR**
- RUBEROID® 20 Smooth is adhered to the insulation with Matrix™ 101 Premium SBS Membrane Adhesive applied at 1.5 – 2.0 gal/sq. The minimum 3” wide base sheet side laps are fully hot air welded.



Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq.
HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq.
Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer's installation instructions.

**Maximum Design
Pressure:** -75 psf (See General Limitation #7)



Membrane Type: Liquid Applied Membrane

Deck Type 7I: Recover, Insulated

System Type C(4): All layers of insulation mechanically attached to roof deck. Top insulation layer joints prepared per note below. HydroStop® PremiumCoat® System applied to insulation.

Deck Description: Structural Concrete or Min. 22 ga., Grade 33, Type B, 1.5 in. deep, wide rib steel deck secured to supports spaced maximum 72 in. o.c. **The thickness of the existing roof assembly as measured from the top of the steel deck ribs to the surface of the roof cover shall be minimum 1”.**

* The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 196 lbf. when tested with Drill-Tec™ #12 Fasteners (steel deck only) or Drill-Tec™ #14 Fasteners (steel or structural concrete deck) installed through to the deck in accordance with TAS 105.

This Tested Assembly has been analysed for allowable deck stress. See Evidence Submitted Table.

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer’s specifications. The following are minimum installation guidelines. Consult the manufacturer’s specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

One or more layers of the following insulations.

Base Insulation Layer (Optional):

**EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation
Minimum 1” thick**

**Insulation Fasteners
(Table 3)**

**Fastener
Density/ft²**

N/A

N/A

Top Insulation Layer:

**Insulation Fasteners
(Table 3)**

**Fastener
Density/ft²**

**Dens Deck® Prime
Minimum ¼” thick**

1, 3, 4, 6, 7, 8

1:1.45 ft²

Note: All layers shall be simultaneously fastened; see top layer for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Insulation Joint and Base Sheet Lap Treatment Note: Top insulation layer joints or base sheet laps shall be treated as follows. The insulation joints shall not be treated when the optional base sheet is present.

HydroStop® PremiumCoat® Foundation Coat is brush applied over all top insulation layer joints (when the optional base sheet is NOT present) or base sheet seams (when the optional base sheet is present) in a 6 in. width at a rate of 1.25 gal./sq. centered about each joint or seam. 6 in. wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal/sq.



**Base Sheet:
(Optional)**

RUBEROID® 20 Smooth is adhered to the top insulation layer with Matrix™ 101 Premium SBS Membrane Adhesive applied at 1.5 – 2.0 gal/sq. The minimum 3” wide base sheet side laps are fully hot air welded.

OR

RUBEROID® HW Smooth or RUBEROID® HW 25 Smooth torch adhered to the top insulation layer within minimum 3” wide side laps.

OR

RUBEROID® Mop Smooth 1.5 or RUBEROID® 20 Smooth is adhered to the top insulation layer with GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs/sq. The minimum 3 in. wide base sheet side laps are fully hot air welded.

Membrane:

HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq.

HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq.

Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)**

HydroStop® TrafficCoat Deck Coating applied per manufacturer’s installation instructions.

**Maximum Design
Pressure:**

-67.5 psf (See General Limitation #7)



Membrane Type: Liquid Applied Membrane

Deck Type 7I: Recover, Insulated

System Type C(5): All layers of insulation mechanically attached to roof deck. Top insulation layer joints prepared per note below. HydroStop® PremiumCoat® System applied to insulation.

Deck Description: Structural Concrete or Min. 22 ga., Grade 33, Type B, 1.5 in. deep, wide rib steel deck secured to supports spaced maximum 72 in. o.c. **The thickness of the existing roof assembly as measured from the top of the steel deck ribs to the surface of the roof cover shall be minimum 1”.**

* The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 218 lbf. when tested with Drill-Tec™ #12 Fasteners (steel deck only) or Drill-Tec™ #14 Fasteners (steel or structural concrete deck) installed through to the deck in accordance with TAS 105.

This Tested Assembly has been analysed for allowable deck stress. See Evidence Submitted Table.

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer’s specifications. The following are minimum installation guidelines. Consult the manufacturer’s specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

One or more layers of the following insulations.

Base Insulation Layer (Optional):

	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation Minimum 1” thick	N/A	N/A
Top Insulation Layer: SECUROCK® Gypsum-Fiber Roof Board Minimum ¼” thick	1, 3, 4, 6, 7, 8	1:1.45 ft²

Note: All layers shall be simultaneously fastened; see top layer for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Insulation Joint and Base Sheet Lap Treatment Note: Top insulation layer joints or base sheet laps shall be treated as follows. The insulation joints shall not be treated when the optional base sheet is present.

HydroStop® PremiumCoat® Foundation Coat is brush applied over all top insulation layer joints (when the optional base sheet is NOT present) or base sheet seams (when the optional base sheet is present) in a 6 in. width at a rate of 1.25 gal./sq. centered about each joint or seam. 6 in. wide HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat. The fabric is then saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at 1.25 gal/sq.



Base Sheet: (Optional) RUBEROID® 20 Smooth is adhered to the top insulation layer with Matrix™ 101 Premium SBS Membrane Adhesive applied at 1.5 – 2.0 gal/sq. The minimum 3” wide base sheet side laps are fully hot air welded.

OR

RUBEROID® HW Smooth or RUBEROID® HW 25 Smooth is torch adhered to the top insulation layer within minimum 3” wide base sheet side laps.

OR

RUBEROID® Mop Smooth 1.5 or RUBEROID® 20 Smooth is adhered to the top insulation layer with GAF 2-Part Roofing Adhesive applied in a spatter pattern at 3.75 lbs/sq. The minimum 3” wide base sheet side laps are fully hot air welded.

Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq.

HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq.

Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer’s installation instructions.

**Maximum Design
Pressure:** -75 psf (See General Limitation #7)



Membrane Type: Liquid Applied Membrane

Deck Type 7: Recover, Non-Insulated

System Type F(1): HydroStop® PremiumCoat® System applied to SPUF

Deck Description: Structural Concrete, Recover, min. 1” thick Spray Polyurethane Foam (SPUF) applied over an existing Smooth Built-Up Roof (BUR)

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer’s specifications. The following are minimum installation guidelines. Consult the manufacturer’s specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq. HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq. Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer’s installation instructions.

**Maximum Design
Pressure:** -237.5 psf (See General Limitation #9)



Membrane Type: Liquid Applied Membrane
Deck Type 7: Recover, Non-Insulated
System Type F(2): HydroStop® PremiumCoat® System applied to SPUF

Deck Description: Recover over an Existing Spray Polyurethane Foam Roof (SPUF)

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq. HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq. Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer's installation instructions.

**Maximum Design
Pressure:** (As determined by TAS 124)

Membrane Type: Liquid Applied Membrane
Deck Type 7: Recover, Non-Insulated
System Type F(3): HydroStop® PremiumCoat® System applied to existing TPO
Deck Description: Recover over an Existing TPO Roof System

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

Primer: TPO Red Primer is applied at 0.5 gal./sq.
Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq. HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq. Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer's installation instructions.

**Maximum Design
Pressure:** (As determined by TAS 124)



Membrane Type: Liquid Applied Membrane
Deck Type 7: Recover, Non-Insulated
System Type F(4): HydroStop® PremiumCoat® System applied to existing PVC
Deck Description: Recover over an Existing PVC Roof System

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq. HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq. Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer's installation instructions.

**Maximum Design
Pressure:** (As determined by TAS 124)

Membrane Type: Liquid Applied Membrane
Deck Type 7: Recover, Non-Insulated
System Type F(5): HydroStop® PremiumCoat® System applied to existing EPDM
Deck Description: Recover over an Existing EPDM Roof System

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq. HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq. Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer's installation instructions.

**Maximum Design
Pressure:** (As determined by TAS 124)



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Membrane Type: Liquid Applied Membrane

Deck Type 7: Recover, Non-Insulated

System Type F(6): HydroStop® PremiumCoat® System applied to existing BUR or modified bitumen roof cover.

Deck Description: Recover over an Existing Built-Up Roof (BUR) or Modified Bitumen Roof

HydroStop® PremiumCoat® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

All General and System Limitations apply.

Membrane: HydroStop® PremiumCoat® Foundation Coat is brush applied at a minimum rate of 1.25 gal./sq.

HydroStop® PremiumCoat® Fabric is embedded in the wet HydroStop® PremiumCoat® Foundation Coat base coat within 4 in. wide seams and is saturated with additional HydroStop® PremiumCoat® Foundation Coat brush applied at a minimum rate of 1.25 gal./sq.

Two (2) or more coats of HydroStop® PremiumCoat® Finish Coat are applied at a minimum rate of 0.75 gal./sq. per coat.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating applied per manufacturer's installation instructions.

**Maximum Design
Pressure:** (As determined by TAS 124)

MANUFACTURER'S REQUIREMENTS:

1. Contractor must be a GAF HydroStop® "Approved Applicator", trained and familiar with the details and specifications published by the manufacturer. Proof of this qualification shall be provided in written form from the manufacturer.
2. Refer to GAF's published installation instructions for detailed installation requirements and recommendations.
3. HydroStop® TrafficCoat Deck Coating is required for traffic bearing surfaces: All pedestrian traffic areas shall be coated with HydroStop® TrafficCoat Deck Coating as non-skid surfacing.

RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.
2. All assemblies listed herein shall be installed in compliance with the applicable sections of FBC 1521. Uplift performance of assemblies bonded to existing roofing system shall be verified per 1521.10. Uplift performance of assemblies mechanically attached through existing roofing system shall be verified per 1521.11.



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GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer.
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt and/or adhesives panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant
(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).
(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

GAF
1 Campus Dr.
Parsippany, NJ 07054

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Roof Coating Maintenance Systems

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA 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 NOA revises NOA No.19-0325.08 and consists of pages 1 through 18.
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 20-0130.07
Expiration Date: 04/01/24
Approval Date: 05/07/20
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ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Cement-Adhesive-Coatings
Material: Elastomeric

SCOPE:

This approves “United Coatings™ Roof Maintenance Systems” as a maintenance roof coating system as manufactured by GAF, as described in this Notice of Acceptance, designed to comply with the Florida Building Code and the High Velocity Hurricanes Zone of the Florida Building Code.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Container Sizes</u>	<u>Test Specification</u>	<u>Product Description</u>
United Cleaning Concentrate <i>Manufacturing Location #4</i>	1 & 5 Gallon	Proprietary	Biodegradable cleaning agent with specific functional ingredients for degreasing and removing soils and biological residues for proper cleaning of roof surfaces.
Acrylex 400 Primer <i>Manufacturing Location #1 & #2</i>	1 & 5 Gallon	Proprietary	Acrylic latex primer for use over metal, masonry and wood surfaces.
Acrylex 400 Multisurface Roof Primer <i>Manufacturing Location #1 & #2</i>	1 & 5 Gallon	Proprietary	Acrylic latex primer for use over metal, masonry and wood surfaces.
CleanAct Rinsable Primer <i>Manufacturing Location #7</i>	2 & 5 Gallon	Proprietary	Water based, rinseable primer used directly on rubber roof (EPDM) applications.
SureBond Primer <i>Manufacturing Locations #1 & #2</i>	2 & 5 Gallon	Proprietary	Acrylic primer used for sealing masonry, metal and chalky surfaces.
UniBase Primer <i>Manufacturing Location #1 & #2</i>	5 Gallon	Proprietary	Low viscosity, highly penetrating, acrylic polymer primer.
TPO Red Primer <i>Manufacturing Location #3</i>	5 Gallon	Proprietary	Solvent-based primer for TPO membranes. May be used interchangeably with Topcoat TPO Red Primer.
XR-2000 Primer <i>Manufacturing Location #3</i>	5 Gallon	Proprietary	Water-based Acrylic primer for Kynar coated metal.
Lock-Down Primer <i>Manufacturing Location #5</i>	1 & 5 Gallon	Proprietary	Moisture-Cure urethane primer for corrosion protection on metal surfaces.
Epoxy Primer <i>Manufacturing Location #1 & #2</i>	1 & 5 Gallon	Proprietary	Single component epoxy primer/sealer designed to penetrate and seal porous surfaces.
United Coatings™ Roof Mate™ Butter Grade Flashing <i>Manufacturing Location #1</i>	2 & 5 Gallon	Proprietary	Water based, high solids elastomeric sealant.
United Coatings™ Roof Mate™ Spray Grade Flashing <i>Manufacturing Location #3</i>	2 & 5 Gallon	TAS 139	Water based, high solids elastomeric sealant.



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TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Container Sizes</u>	<u>Test Specification</u>	<u>Product Description</u>
United Coatings™ Roof Mate™ Liquid Fabric <i>Manufacturing Location #3</i>	5 & 55 Gallon	TAS 139	Water based, high elasticity flashing compound.
United Coatings™ Roof Mate™ Fabric <i>Manufacturing Location #6</i>	4", 6" and 12" wide Rolls	Proprietary	3 oz./yd ² polyester reinforcing fabric
FlexSeal™ Sealant <i>Manufacturing Location #3</i>	1 & 5 Gallon or 1 Quart	TAS 139	Solvent-based elastomeric sealant.
United Coatings™ Diathon® Base Coat <i>Manufacturing Locations #1 & #2</i>	5 & 55 Gallon	Proprietary	Acrylic elastomer base coating for use over spray polyurethane foam.
United Coatings™ Diathon® Roof Coating <i>Manufacturing Locations #1 & #2</i>	5 & 55 Gallon	ASTM D6083	Acrylic elastomer top coating for use over spray polyurethane foam in conjunction with United Coatings™ Diathon® Base Coat.
United Coatings™ Roof Mate™ Base Coat <i>Manufacturing Locations #1 & #2</i>	5 & 55 Gallon	Proprietary	Acrylic elastomer base coating for use over approved substrates.
United Coatings™ Roof Mate™ Top Coat <i>Manufacturing Locations #1 & #2</i>	5 & 55 Gallon	ASTM D6083	Acrylic elastomer top coating for use over approved substrates in conjunction with United Coatings™ Roof Mate Base Coat.
United Coatings™ Roof Mate™ MB Plus Coating <i>Manufacturing Location #3</i>	5 & 55 Gallon	Proprietary	Water based, low VOC primer used to block asphalt bleed through.
United Coatings™ Roof Mate™ TCM Coating <i>Manufacturing Location #3</i>	1, 5 & 55 Gallon	ASTM D6083	A premium acrylic, water based elastomeric membrane system used to protect various types of roofing surfaces.
United Coatings™ SurfaceSeal SB Roof Coating <i>Manufacturing Location #3</i>	5 & 55 Gallon	ASTM D6083	Solvent based, sprayable thermoplastic rubber sealant used to protect and restore aged roof surfaces and to increase a roof's reflectivity.
FireOut™ Fire Barrier Coating <i>Manufacturing Location #3</i>	5 & 55 Gallon	Proprietary	Low VOC, water based fire barrier coating.
Unisil Primer (A & B) <i>Manufacturing Location #8</i>	5 gal.	Proprietary	A two component, 1 to 1 ratio, water-based epoxy primer
United Coatings™ RoofShield® I.S. Coating <i>Manufacturing Locations #2</i>	55 Gallon	ASTM D6083	A two-part acrylic polymer dispersion system.



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MANUFACTURING LOCATIONS:

1. Phoenix, AZ
2. Charleston, SC
3. Walpole, MA
4. Olympia, WA
5. Richmond, MO
6. Spartanburg, SC
7. Fountain Inn, SC
8. Brookfield, WI

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>	
PRI Construction Materials Technologies LLC	GAF-306-02-01	Proprietary	05/19/11	
	GAF-499-02-01	ASTM D6083	05/19/16	
	GAF-500-02-01	ASTM C794	05/19/16	
	GAF-508-02-01	Proprietary	03/12/14	
	GAF-661-02-01	Proprietary	06/03/16	
	GAF-498-02-01	ASTM D6083	09/16/16	
	GAF-658-02-01	Proprietary	06/07/16	
	GAF-659-02-01	Proprietary	06/03/16	
	GAF-660-02-01Rev1	Proprietary	06/16/17	
	GAF-661-02-01	Proprietary	06/02/16	
	GAF-662-02-01	Proprietary	06/07/16	
	GAF-663-02-01	Proprietary	06/03/16	
	GAF-665-02-01	Proprietary	06/03/16	
	GAF-664-02-01	Proprietary	06/03/16	
	GAF-666-02-01	Proprietary	05/31/16	
	GAF-667-02-01	TAS 139	07/01/16	
	GAF-668-02-01	TAS 139	07/01/16	
	GAF-669-02-01	Proprietary	07/06/16	
	GAF-671-02-01	TAS 139	07/01/16	
	GAF-672-02-01	Proprietary	07/06/16	
	GAF-673-02-01Rev1	Proprietary	06/16/17	
	GAF-689-02-01	ASTM C794	06/22/16	
	GAF-690-02-01	ASTM C794	06/22/16	
	GAF-691-02-01	ASTM C794	06/22/16	
	GAF-692-02-01	ASTM C794	06/22/16	
	GAF-694-02-01	ASTM D1876	06/22/16	
	GAF-694-02-02	ASTM D1876	06/22/16	
	GAF-694-02-03	ASTM D1876	06/22/16	
	GAF-754-02-01	Proprietary	06/16/17	
	GAF-762-02-01	Proprietary	06/16/17	
	GAF-712-02-01	Proprietary	07/21/16	
	GAF-778-02-01	ASTM D6083	10/13/17	
	GAF-906-02-01	Proprietary	01/25/19	
	GAF-907-02-01	Proprietary	01/25/19	
	GAF-908-02-01	Proprietary	01/25/19	
	UCMC-013-02-01	ASTM D6083	05/19/16	
	UCMC-014-02-01	ASTM D6083	05/19/16	
	NEMO etc.	4p-GAF-19-SSLAP-01.A-R1	ASTM D6083	08/13/19



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APPLICATION INSTALLATION PROCEDURES:

COATING APPLICATIONS:

Substrate: New or existing galvanized Metal Roof System

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer: Acrylex 400 Primer or Acrylex 400 Multisurface Roof Primer applied at 0.5 gal./sq.
(Optional)

Base Coat: United Coatings™ Roof Mate™ Base Coat is applied at a minimum rate of 1.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Primer: Acrylex 400 Primer or Acrylex 400 Multisurface Roof Primer applied at 0.5 gal./sq.
(Optional)

Base Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Primer: Acrylex 400 Primer or Acrylex 400 Multisurface Roof Primer applied at 0.33 gal./sq.
(Optional)

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.

Substrate: New smooth Built-Up Roof (BUR)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating applied at 0.5 gal./sq.

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.



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Substrate: New or existing smooth Built-Up Roof (BUR)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Substrate: New granulated Built-Up Roof (BUR)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof Coating applied at 1.0 gal./sq.

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.



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Substrate: New or existing granulated Built-Up Roof (BUR)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat: United Coatings™ Roof Mate™ Base Coat or United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat: (Optional) United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat: (Optional) United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Substrate: Existing granulated Built-Up Roof (BUR)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner: United Cleaning Concentrate is applied in strict accordance with GAF's published installation instructions

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof Coating applied at 1.0 gal./sq.

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal/sq.



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Substrate: New or existing Spray Polyurethane Foam Roof (SPUF)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer’s specifications. The following are installation guidelines. Consult the manufacturer’s published installation instructions or Technical Representative for detailed installation requirements.

Base Coat: United Coatings™ Diathon® Base Coat is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat(s): 1 - 2 coats of United Coatings™ Diathon® Roof Coating is (are) applied at a minimum rate of 1.0 gal./sq. per coat.

Finish Coat: United Coatings™ Diathon® Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Substrate: New smooth SBS

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer’s specifications. The following are installation guidelines. Consult the manufacturer’s published installation instructions or Technical Representative for detailed installation requirements.

Base Coat United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof Coating applied at 0.5 gal./sq.

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.

Substrate: Existing smooth SBS

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer’s specifications. The following are installation guidelines. Consult the manufacturer’s published installation instructions or Technical Representative for detailed installation requirements.

Cleaner: United Cleaning Concentrate is applied in strict accordance with GAF’s published installation instructions.

Base Coat: United Coatings™ Roof Mate™ Base Coat is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat: (Optional) United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

OR

Cleaner: United Cleaning Concentrate is applied in strict accordance with GAF’s published installation instructions.

Base Coat United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof Coating applied at 0.5 gal./sq.

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.



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Substrate: New or existing smooth SBS

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating or United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.



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Substrate: New or existing Granulated SBS

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat: United Coatings™ Roof Mate™ Base Coat or United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat: (Optional) United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: (Optional) United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: (Optional) United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating or United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Cleaner: United Cleaning Concentrate is applied in strict accordance with GAF's published installation instructions.

Primer: United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof Coating applied at 1.0 gal./sq.

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.



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Substrate: New Granulated SBS

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner: United Cleaning Concentrate is applied in strict accordance with GAF's published installation instructions.

Primer: (optional) United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof Coating applied at 1.0 gal./sq.

Finish Coat United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.

Substrate: New Granulated APP

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer: (optional) United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.

Substrate: Existing Granulated APP

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner: United Cleaning Concentrate is applied in strict accordance with GAF's published installation instructions.

Primer: United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Surface Seal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.

Substrate: New or existing smooth APP

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat: United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat: (Optional) United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.00 gal./sq.

Finish Coat: United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating or United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.



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Substrate: New or existing Granulated APP

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating or United Coatings™ Roof Mate TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ MB Plus Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.00 gal./sq.

OR

Base Coat: United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.00 gal./sq.

Intermediate Coat: United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.00 gal./sq.
(Optional)

Finish Coat: United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating, or United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.00 gal./sq.



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Substrate: Existing smooth APP

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner: United Cleaning Concentrate is applied in strict accordance with GAF's published installation instructions.

Primer: United Coatings™ Roof Mate™ MB Plus Coating is applied at 0.5 gal./sq.

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.

Substrate: New or existing EPDM

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner: CleanAct Rinsable Primer is applied in strict accordance with GAF's published installation instructions.

Base Coat: United Coatings™ Roof Mate™ Base Coat is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: (Optional) United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 0.5 gal./sq.

Intermediate Coat: (Optional) United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating or United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Substrate: New EPDM

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer: CleanAct Rinsable Primer is applied at 0.2 gal./sq.

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.



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Substrate: New or existing TPO

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer: TPO Red Primer applied at 0.5 gal./sq.

Base Coat: United Coatings™ Roof Mate™ Base Coat is applied at a minimum rate of 1.0 gal./sq.

**Intermediate Coat:
(Optional)** United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Primer: TPO Red Primer applied at 0.5 gal./sq.

**Base Coat:
(Optional)** United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

**Intermediate Coat:
(Optional)** United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

**Base Coat:
(Optional)** United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 0.5 gal./sq.

**Intermediate Coat:
(Optional)** United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Finish Coat: United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating or United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

Substrate: New TPO

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer: TPO Red Primer is applied at 0.25 gal./sq. or United Coatings™ SurfaceSeal SB Roof Coating is applied at 0.5 gal./sq.

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.



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Substrate: New or existing PVC

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Base Coat: United Coatings™ Roof Mate™ Base Coat is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Intermediate Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Substrate: New PVC

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer: Unisil Primer (A & B) is applied at a rate of 0.33 gal./sq.
(Optional)

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.

Substrate: Existing Hypalon (CSPE)

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Cleaner: United Cleaning Concentrate is applied in strict accordance with GAF's published installation instructions.

Base Coat: United Coatings™ Roof Mate™ Base Coat is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.



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Substrate: **Structural Concrete**

All General Limitations Apply.

Application on Concrete shall not be as a roof system or a waterproofing system see General Limitation #1.

All GAF products shall be installed in accordance with the manufacturer's specifications. The following are installation guidelines. Consult the manufacturer's published installation instructions or Technical Representative for detailed installation requirements.

Primer: Epoxy Primer applied at 0.4 gal./sq.
(Optional) OR

SureBond Primer applied at 0.4 gal./sq.

Base Coat: United Coatings™ Roof Mate™ Base Coat is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ Roof Mate™ TCM Coating is applied at a minimum rate of 1.0 gal./sq.

OR

Base Coat: United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.

Intermediate Coat: United Coatings™ SurfaceSeal SB Roof Coating is applied at a minimum rate of 1.0 gal./sq.
(Optional)

Finish Coat: United Coatings™ SurfaceSeal SB Roof Coating, United Coatings™ Roof Mate™ TCM Coating
or United Coatings™ Roof Mate™ Top Coat is applied at a minimum rate of 1.0 gal./sq.

OR

Primer: SureBond Primer is applied at 0.4 gal./sq.
(optional)

Finish Coat: United Coatings™ RoofShield® I.S. applied at 3.0 gal./sq.



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FIRE BARRIER APPLICATION

Substrate: Wood Deck

System Type: Fire barrier for use under mechanically secured anchor sheets, insulations or roofing membranes.

All General Limitations Apply.

All GAF products shall be installed in accordance with the manufacturer’s specifications. The following are installation guidelines. Consult the manufacturer’s published installation instructions or Technical Representative for detailed installation requirements.

Fire Barrier: FireOut™ Fire Barrier Coating is designed to provide fire barrier protection over wood decks. Apply at a rate of 1 gal./sq. Allow to dry prior to application of roof cover. Consult a current Approved Roofing Materials Directory for applicable fire ratings.

***See General Limitation #3.**



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BUILDING PERMIT REQUIREMENTS:

1. This Notice of Acceptance.
2. Any other documents required by the Building Official or applicable Building Code in order to properly evaluate the installation of this system.
3. Approved Applicator Certificate (designated by GAF) listing the contractor & approved applicator's name.

GENERAL LIMITATIONS:

1. **GAF products are not approved as and shall not be used as a Roof or Waterproofing System as required by the Florida Building Code Chapter 15 HVHZ.**
2. GAF products shall only be used as a roof or exterior maintenance coating over the substrates specified herein in accordance with Chapter 15 of the Florida Building Code.
3. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire rating of this product.
4. GAF products shall not be applied in inclement weather conditions.
5. The products listed herein are components of roof assemblies and are approved for use with roof assemblies that list any of the products listed herein as part of their Roof Assembly Notice of Acceptance.
6. All products listed herein shall have an unannounced follow-up quality control program from an approved listing agency. Follow up test results shall be made available to Miami-Dade Product Control upon request.
7. GAF products shall not be applied over prepared roofing; i.e., asphalt shingles, fiber-cement shingles, quarry slate, cement or clay roof tile, metal shingles, wood shingles or shakes.
8. Change in materials, use, or manufacture of any of the products listed herein shall be cause for termination of this Notice of Acceptance.
9. GAF products shall be applied in accordance with manufacturer's published application instructions. Refer to GAF's published installation instructions for detailed installation requirements and recommendations.
10. The use of a reinforcing fabric in a maintenance coating is only to enhance the coating's ability to deliver efficient and long term performance through the protection of the underlying roof system and in this particular use does not become a roof system itself.
11. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
12. All approved products listed herein shall be labeled in compliance with TAS 121 and shall bear the imprint or identifiable marking of the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



END OF THIS ACCEPTANCE



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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

GAF
1 Campus Dr.
Parsippany, NJ 07054

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: HydroStop® PremiumCoat® Roof Maintenance Coating Systems.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA 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 NOA renews and revises NOA No. 17-0808.07 and consists of pages 1 through 14.
The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Cement-Adhesive-Coatings
Material: Elastomeric

SCOPE:

This approves “**HydroStop® PremiumCoat® Roof Maintenance Coating Systems**” as a roof maintenance coating system as manufactured by GAF, as described in this Notice of Acceptance, designed to comply with the Florida Building Code and the High Velocity Hurricanes Zone of the Florida Building Code.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Container Size</u>	<u>Test Specification</u>	<u>Product Description</u>
United Cleaning Concentrate (UCC) <i>Manufacturing Location #4</i>	2 & 5 Gallon	Proprietary	Biodegradable cleaning agent with specific functional ingredients for degreasing and removing soils and biological residues for proper cleaning of roof surfaces.
United Cleaning Concentrate <i>Manufacturing Location #4</i>	2 & 5 Gallon	Proprietary	Biodegradable cleaning agent with specific functional ingredients for degreasing and removing soils and biological residues for proper cleaning of roof surfaces.
CleanAct Rinsable Primer <i>Manufacturing Location #7</i>	2 & 5 Gallon	Proprietary	Water based, rinseable primer used directly on rubber roof (EPDM) applications.
HydroStop® BarrierGuard® Waterproofing <i>Manufacturing Location #1, 2</i>	2 & 5 Gallon	Proprietary	Priming and waterproofing compound for masonry surfaces.
HydroStop® BarrierGuard® Surface Coating <i>Manufacturing Location #1, 2</i>	2 & 5 Gallon	Proprietary	Priming and waterproofing compound for masonry surfaces.
SureBond Primer <i>Manufacturing Locations #1 & #2</i>	2 & 5 Gallon	Proprietary	Acrylic primer used for sealing masonry, metal and chalky surfaces.
UniBase Primer <i>Manufacturing Location #1, 2</i>	5 Gallon	Proprietary	Low viscosity, highly penetrating, acrylic primer for modified bitumen, BUR and previously coated surfaces that also acts as an excellent asphalt bleed blocker.
TPO Red Primer <i>Manufacturing Location #3</i>	5 Gallon	Proprietary	Solvent-based primer for TPO membranes.
XR-2000 Primer <i>Manufacturing Location #3</i>	5 Gallon	Proprietary	Water-based Acrylic primer for Kynar coated metal.
Kymax™ Primer <i>Manufacturing Location #3</i>	5 Gallon	Proprietary	Water-based Acrylic primer for Kynar coated metal.



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<u>Product</u>	<u>Container Size</u>	<u>Test Specification</u>	<u>Product Description</u>
Lock-Down Primer <i>Manufacturing Location #5</i>	1 & 5 Gallon	Proprietary	Moisture-cure urethane primer for corrosion protection on metal surfaces.
Acrylex 400 Primer <i>Manufacturing Location #1 & 2</i>	1 & 5 Gallon	Proprietary	Acrylic latex primer for use over metal, masonry and wood surfaces.
Acrylex 400 Multisurface Roof Primer <i>Manufacturing Location #1, 2</i>	1 & 5 Gallon	Proprietary	Acrylic latex primer for use over metal, masonry and wood surfaces.
FlexSeal™ Sealant <i>Manufacturing Location #3</i>	1 & 5 Gallon or 1 qt. Tube	TAS 139	Solvent-based, elastomeric sealant.
HydroStop® PremiumCoat® Foundation Coat <i>Manufacturing Locations #1 & #2</i>	2 & 5 Gallon	Proprietary	Acrylic elastomeric waterproofing compound used as a base layer in the HydroStop® PremiumCoat® System.
Premium Acrylic HydroStop® Base Coat <i>Manufacturing Locations #1 & #2</i>	2 & 5 Gallon	Proprietary	Acrylic elastomeric waterproofing compound used as a base layer in the HydroStop® PremiumCoat® System.
HydroStop® PremiumCoat® Fabric <i>Manufacturing Location #6</i>	Rolls	Proprietary	Reinforcing fabric for the HydroStop® PremiumCoat® System.
Premium Fabric <i>Manufacturing Location #6</i>	Rolls	Proprietary	Reinforcing fabric for the HydroStop® PremiumCoat® System.
HydroStop® HydroCap Fastener Fabric <i>Manufacturing Location #6</i>	Box	Proprietary	4 in. diameter, non-woven, stitch bonded polyester fabric disc with center cut hole for flashing exposed fasteners in the HydroStop® PremiumCoat® System.
Metal Fastener Fabric <i>Manufacturing Location #6</i>	Box	Proprietary	4 in. diameter, non-woven, stitch bonded polyester fabric disc with center cut hole for flashing exposed fasteners in the HydroStop® PremiumCoat® System.
HydroStop® PremiumCoat® Butter Grade Flashing <i>Manufacturing Location #2</i>	2 & 5 Gallon	TAS 139	Acrylic elastomeric sealant for bridging gaps, filling voids and low lying roof areas.
Premium Brush-Grade Acrylic Flashing <i>Manufacturing Location #2</i>	2 & 5 Gallon	TAS 139	Acrylic elastomeric sealant for bridging gaps, filling voids and low lying roof areas.
HydroStop® PremiumCoat® FinishCoat <i>Manufacturing Locations #1 & #2</i>	2 & 5 Gallon	ASTM D6083	Acrylic elastomeric waterproofing compound used as a top layer in the HydroStop® PremiumCoat® System.
Premium Acrylic HydroStop® Top Coat <i>Manufacturing Locations #1 & #2</i>	2 & 5 Gallon	ASTM D6083	Acrylic elastomeric waterproofing compound used as a top layer in the HydroStop® PremiumCoat® System.



<u>Product</u>	<u>Container Size</u>	<u>Test Specification</u>	<u>Product Description</u>
HydroStop® TrafficCoat Deck Coating <i>Manufacturing Locations #1</i>	2 & 5 Gallon	Proprietary	Acrylic elastomeric waterproofing compound used as a non-skid surfacing layer over the HydroStop® PremiumCoat® System.
TrafficCoat Pedestrian Surface Coating <i>Manufacturing Locations #1</i>	2 & 5 Gallon	Proprietary	Acrylic elastomeric waterproofing compound used as a non-skid surfacing layer over the HydroStop® PremiumCoat® System.

MANUFACTURING LOCATIONS:

1. Charleston, SC
2. Phoenix, AZ
3. Walpole, MA
4. Olympia, WA
5. Richmond, MO
6. Spartanburg, SC
7. Fountain Inn, SC



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EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
FM Approvals	3000150	FM 4470	09/22/99
	3023606	FM 4470	10/18/06
	3046086	FM 4470	01/18/13
	RR204674	FM 4470	03/23/16
Trinity ERD	SC10845.04.16	TAS 114	04/26/16
UL LLC	R6935	UL790	03/15/18
PRI Construction Materials Technologies, LLC	HSI-009-02-01	ASTM D6083	05/20/16
	GAF-508-02-01	Proprietary	03/12/14
	GAF-658-02-01	Proprietary	06/07/16
	GAF-659-02-01	Proprietary	06/03/16
	GAF-660-02-01Rev1	Proprietary	06/16/17
	GAF-661-02-01	Proprietary	06/03/16
	GAF-662-02-01	Proprietary	06/07/16
	GAF-663-02-01	Proprietary	06/03/16
	GAF-664-02-01	Proprietary	06/03/16
	GAF-665-02-01	Proprietary	06/03/16
	GAF-671-02-01	TAS 139	06/07/16
	GAF-674-02-01Rev1	Proprietary	06/16/17
	GAF-675-02-01Rev1	Proprietary	06/16/17
	GAF-671-02-01	Proprietary	06/01/16
	GAF-676-02-01	Proprietary	06/01/16
	GAF-677-02-01	Proprietary	06/01/16
	GAF-678-02-01	TAS 139	07/14/16
	GAF-679-02-01	Proprietary	06/01/16
	GAF-680-02-01Rev1	Proprietary	06/19/17
	GAF-687-02-01	ASTM C794	06/06/16
	GAF-688-02-01	ASTM C794	06/06/16
	GAF-693-02-01	ASTM 1876	06/22/18
	GAF-754-02-01	Proprietary	06/19/17
GAF-762-02-01	Proprietary	06/19/17	
GAF-777-02-01	ASTM D6083	09/15/17	
GAF-906-02-01	Proprietary	01/25/19	
GAF-907-02-01	Proprietary	01/25/19	
376T0048	Proprietary	01/25/19	
376T0077	Proprietary	06/16/20	



APPROVED SUBSTRATES:

Substrate: Existing Galvanized Metal Roof Panel System

All Limitations apply.

HydroStop® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

Preparation: The surface shall be clean, sound and dry prior to application HydroStop® coating. All surface preparation shall be in compliance with the coating manufacturer's published application instructions and current Miami-Dade County Product Control Notice of Acceptance.

Base Coat: HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, shall be applied to the entire substrate at a minimum rate of 1.25 gal./sq. with approved roof brushes.

**Fabric & Coat:
(Optional)** Embed HydroStop® PremiumCoat® Fabric, or Premium Fabric, into the wet HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, base coat within minimum 4" wide seams and then saturate the HydroStop® PremiumCoat® Fabric, or Premium Fabric, with HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, applied at a minimum rate of 1.25 gal./sq. with approved roof brushes.

Flashing: At all seams, joints or laps embed a single layer of HydroStop® PremiumCoat® Fabric, or Premium Fabric, in the wet HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, overlapping fabric seams a minimum of 4".

On all exposed fasteners, embed a 6 x 6 in. piece of HydroStop® PremiumCoat® Fabric, or Premium Fabric, or a HydroStop® HydroCap Fastener Fabric, or Metal Fastener Fabric, into the wet HydroStop® PremiumCoat® Foundation Coat or Premium Acrylic HydroStop® Base Coat base coat.

Fully saturate all HydroStop® PremiumCoat® Fabric, or Premium Fabric, and HydroStop® HydroCap Fastener Fabric, or Metal Fastener Fabric, with additional HydroStop® PremiumCoat® Foundation Coat or Premium Acrylic HydroStop® Base Coat applied at a minimum rate of 1.25gal./sq.

Flashing details for all penetrations, seams, laps, exposed fasteners and transitions shall be in accordance with GAF's published installation instructions.

Finish Coats: HydroStop® PremiumCoat® FinishCoat or Premium Acrylic HydroStop® Top Coat shall be applied in two or more coats. Each coat shall be applied at a minimum rate of 0.75 gal./sq. Each coat shall be allowed to dry prior to application of subsequent coats.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating, TrafficCoat Pedestrian Surface Coating, HydroStop® BarrierGuard® Surface Coating, or HydroStop® BarrierGuard® Waterproofing applied per manufacturer's installation instructions.



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Substrate: Existing Built-Up Roof (BUR) or Modified Bitumen Roof

All Limitations apply.

HydroStop® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

Preparation: The surface shall be clean, sound and dry prior to application HydroStop® coating. All surface preparation shall be in compliance with the coating manufacturer's published application instructions and current Miami-Dade County Product Control Notice of Acceptance.

Base Coat: HydroStop® PremiumCoat® Foundation Coat or Premium Acrylic HydroStop® Base Coat shall be applied to the entire substrate at a minimum rate of 1.25 gal./sq. with approved roof brushes.

Fabric & Coat: Embed HydroStop® PremiumCoat® Fabric, or Premium Fabric, into the wet HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, base coat within minimum 4" wide seams and then saturate the HydroStop™ PremiumCoat® Fabric, or Premium Fabric, with HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, applied at a minimum rate of 1.25 gal./sq. with approved roof brushes.

Flashing: Flashing details for all penetrations, seams, laps and transitions shall be in accordance with GAF's published installation instructions.

Finish Coats: HydroStop® PremiumCoat® FinishCoat, or Premium Acrylic HydroStop® Top Coat, shall be applied in two or more coats. Each coat shall be applied at a minimum rate of 0.75 gal./sq. Each coat shall be allowed to dry prior to application of subsequent coats.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating, TrafficCoat Pedestrian Surface Coating, HydroStop® BarrierGuard® Surface Coating, or HydroStop® BarrierGuard® Waterproofing applied per manufacturer's installation instructions.



Substrate: New or Existing Smooth SBS Modified Bitumen Roof

All Limitations apply.

HydroStop® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

- Preparation:** The surface shall be clean, sound and dry prior to application HydroStop® coating. All surface preparation shall be in compliance with the coating manufacturer's published application instructions and current Miami-Dade County Product Control Notice of Acceptance.
- Base Coat:** HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, shall be applied to the entire substrate at a minimum rate of 1.25 gal./sq. with approved roof brushes.
- Fabric & Coat:** Embed HydroStop® PremiumCoat® Fabric, or Premium Fabric, into the wet HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, base coat within minimum 4" wide seams and then saturate the HydroStop™ PremiumCoat® Fabric, or Premium Fabric, with HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, applied at a minimum rate of 1.25 gal./sq. with approved roof brushes.
- Flashing:** Flashing details for all penetrations, seams, laps and transitions shall be in accordance with GAF's published installation instructions.
- Finish Coats:** HydroStop® PremiumCoat® FinishCoat, or Premium Acrylic HydroStop® Top Coat, shall be applied in two or more coats. Each coat shall be applied at a minimum rate of 0.75 gal./sq. Each coat shall be allowed to dry prior to application of subsequent coats.
- Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating, TrafficCoat Pedestrian Surface Coating, HydroStop® BarrierGuard® Surface Coating, or HydroStop® BarrierGuard® Waterproofing applied per manufacturer's installation instructions.



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Substrate: New or Existing Spray Applied Polyurethane Foam

All Limitations apply.

HydroStop® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

Preparation: The surface shall be clean, sound and dry prior to application of the coating. All surface preparation shall be in compliance with the coating manufacturer's published application instructions and current Miami-Dade County Product Control Notice of Acceptance.

Base Coat: HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, shall be applied to the entire substrate at a minimum rate of 1.25 gal./sq. with approved roof brushes.

Fabric & Coat: Embed HydroStop® PremiumCoat® Fabric, or Premium Fabric, into the wet HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, base coat within minimum 4" wide seams and then saturate the HydroStop® PremiumCoat® Fabric, or Premium Fabric, with HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, applied at a minimum rate of 1.25 gal./sq. with approved roof brushes.

Flashing: Flashing details for all penetrations, seams, laps and transitions shall be in accordance with GAF's published installation instructions.

Finish Coat: HydroStop® PremiumCoat® FinishCoat, or Premium Acrylic HydroStop® Top Coat, shall be applied in two or more coats. Each coat shall be applied at a minimum rate of 0.75 gal./sq. Each coat shall be allowed to dry prior to application of subsequent coats.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating, TrafficCoat Pedestrian Surface Coating, HydroStop® BarrierGuard® Surface Coating, or HydroStop® BarrierGuard® Waterproofing applied per manufacturer's installation instructions.



Substrate: New or Existing Single-Ply Membrane: PVC

All Limitations apply.

HydroStop® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

- Preparation:** The surface shall be clean, sound and dry prior to application of the coating. All surface preparation shall be in compliance with the coating manufacturer's published application instructions and current Miami-Dade County Product Control Notice of Acceptance.
- Base Coat:** HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, shall be applied to the entire substrate at a minimum rate of 1.25 gal./sq. with approved roof brushes.
- Foundation Coat:** Apply HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, to fully saturate existing substrate at a maximum rate of 40 ft² per gallon providing a minimum of 25 mils thickness. Fully embed HydroStop® PremiumCoat® Fabric, or Premium Fabric, while coating is still wet keeping a minimum 4 inch fabric overlap. Fabric must be completely embedded in the Foundation Coat and allowed to dry.
- Fabric and Coat:** Embed HydroStop® PremiumCoat® Fabric, or Premium Fabric, into the wet HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat within minimum 4" wide seams and then saturate the HydroStop® PremiumCoat® Fabric, or Premium Fabric, with HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, applied at a minimum rate of 1.25 gal./sq. with approved roof brushes.
- Flashing:** Flashing details for all penetrations, seams, laps and transitions shall be in accordance with GAF's published installation instructions.
- Finish Coat:** HydroStop® PremiumCoat® FinishCoat, or Premium Acrylic HydroStop® Top Coat, shall be applied in two or more coats. Each coat shall be applied at a minimum rate of 0.75 gal./sq. Each coat shall be allowed to dry prior to application of subsequent coats.
- Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating, TrafficCoat Pedestrian Surface Coating, HydroStop® BarrierGuard® Surface Coating, or HydroStop® BarrierGuard® Waterproofing applied per manufacturer's installation instructions.



Substrate: New or Existing Single-Ply Membrane: TPO

All Limitations apply.

HydroStop® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

Preparation: The surface shall be clean, sound and dry prior to application of the coating. All surface preparation shall be in compliance with the coating manufacturer's published application instructions and current Miami-Dade County Product Control Notice of Acceptance.

Primer: Membrane shall be primed with TPO Red Primer applied at 0.5 gal./sq.

Base Coat: HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, shall be applied to the entire substrate at a minimum rate of 1.25 gal./sq. with approved roof brushes.

Fabric & Coat: Embed HydroStop® PremiumCoat® Fabric, or Premium Fabric, into the wet HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, base coat within minimum 4" wide seams and then saturate the HydroStop® PremiumCoat® Fabric, or Premium Fabric, with HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, applied at a minimum rate of 1.25 gal./sq. with approved roof brushes.

Flashing: Flashing details for all penetrations, seams, laps and transitions shall be in accordance with GAF's published installation instructions.

Finish Coat: HydroStop® PremiumCoat® FinishCoat, or Premium Acrylic HydroStop® Top Coat, shall be applied in two or more coats. Each coat shall be applied at a minimum rate of 0.75 gal./sq. Each coat shall be allowed to dry prior to application of subsequent coats.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating, TrafficCoat Pedestrian Surface Coating, HydroStop® BarrierGuard® Surface Coating, or HydroStop® BarrierGuard® Waterproofing applied per manufacturer's installation instructions.



Substrate: Existing Single-Ply Membrane: Hypalon (CSPE)

All Limitations apply.

HydroStop® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

Preparation: The surface shall be clean, sound and dry prior to application of the coating (**membrane is cleaned with United Cleaning Concentrate applied per manufacturer's published installation instructions**). All surface preparation shall be in compliance with the coating manufacturer's published application instructions and current Miami-Dade County Product Control Notice of Acceptance.

Base Coat: HydroStop® PremiumCoat® Foundation Coat or Premium Acrylic HydroStop® Base Coat, shall be applied to the entire substrate at a minimum rate of 1.25 gal./sq. with approved roof brushes.

Fabric and Coat: Embed HydroStop® PremiumCoat® Fabric, or Premium Fabric, into the wet HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, base coat within minimum 4" wide seams and then saturate the HydroStop® PremiumCoat® Fabric, or Premium Fabric, with HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, applied at a minimum rate of 1.25 gal./sq. with approved roof brushes.

Flashing: Flashing details for all penetrations, seams, laps and transitions shall be in accordance with GAF's published installation instructions.

Finish Coat: HydroStop® PremiumCoat® FinishCoat, or Premium Acrylic HydroStop® Top Coat shall be applied in two or more coats. Each coat shall be applied at a minimum rate of 0.75 gal./sq. Each coat shall be allowed to dry prior to application of subsequent coats.

**Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating, TrafficCoat Pedestrian Surface Coating, HydroStop® BarrierGuard® Surface Coating, or HydroStop® BarrierGuard® Waterproofing applied per manufacturer's installation instructions.



Substrate: New or Existing Single-Ply Membrane: EPDM

All Limitations apply.

HydroStop® products shall be installed in accordance with the manufacturer's specifications. The following are minimum installation guidelines. Consult the manufacturer's specifications or Technical Representative for specific/complete installation instructions.

- Preparation:** The surface shall be clean, sound and dry prior to application of the coating. All surface preparation shall be in compliance with the coating manufacturer's published application instructions and current Miami-Dade County Product Control Notice of Acceptance.
- Primer:** Existing EPDM roofing membrane shall be primed with CleanAct Rinseable Primer or Adhere-It® II Primer in strict accordance with the manufacturer's published application instructions.
- Base Coat:** HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, shall be applied to the entire substrate at a minimum rate of 1.25 gal./sq. with approved roof brushes.
- Fabric and Coat:** Embed HydroStop® PremiumCoat® Fabric, or Premium Fabric, into the wet HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, base coat within minimum 4" wide seams and then saturate the HydroStop® PremiumCoat® Fabric, or Premium Fabric, with HydroStop® PremiumCoat® Foundation Coat, or Premium Acrylic HydroStop® Base Coat, applied at a minimum rate of 1.25 gal./sq. with approved roof brushes.
- Flashing:** Flashing details for all penetrations, seams, laps and transitions shall be in accordance with GAF's published installation instructions.
- Finish Coat:** HydroStop® PremiumCoat® FinishCoat, or Premium Acrylic HydroStop® Top Coat shall be applied in two or more coats. Each coat shall be applied at a minimum rate of 0.75 gal./sq. Each coat shall be allowed to dry prior to application of subsequent coats.
- Surfacing:
(Optional)** HydroStop® TrafficCoat Deck Coating, TrafficCoat Pedestrian Surface Coating, HydroStop® BarrierGuard® Surface Coating, or HydroStop® BarrierGuard® Waterproofing applied per manufacturer's installation instructions.



BUILDING PERMIT REQUIREMENTS:

1. This Notice of Acceptance.
2. Any other documents required by the Building Official or applicable Building Code in order to properly evaluate the installation of this system.
3. Approved Applicator Certificate (designated by GAF) listing the contractor & approved applicator's name.

GENERAL LIMITATIONS:

1. **HydroStop® PremiumCoat® System products are not approved as and shall not be used as a Roof or Waterproofing System as required by the Florida Building Code Chapter 15 HVHZ.**
2. The HydroStop® PremiumCoat® System shall only be used as a roof or exterior maintenance coating over the substrates specified herein in accordance with Chapter 15 of the Florida Building Code.
3. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
4. Contractor must be a GAF HydroStop® "Approved Applicator", trained and familiar with the details and specifications published by the manufacturer. The proper application and installation of all HydroStop® products shall be the sole responsibility of the contractor.
5. HydroStop® PremiumCoat® System shall be applied in accordance with manufacturer's published application instructions. Refer to GAF's published installation instructions for detailed installation requirements and recommendations.
6. HydroStop® products shall not be applied in inclement weather conditions.
7. Approved primer is required on all unprotected iron and steel and previously painted surfaces.
8. The HydroStop® PremiumCoat® System shall not be applied over prepared roofing, i.e., asphalt shingles, fiber-cement shingles, quarry slate, cement or clay roof tile, metal shingles, wood shingles or shakes.
9. The HydroStop® PremiumCoat® System shall not be applied over gravel surfaces.
10. The HydroStop® PremiumCoat® System shall not be covered with stone chips, screeds, tiles or soil.
11. The use of a reinforcing fabric in a maintenance coating is only to enhance the coating's ability to deliver efficient and long term performance through the protection of the underlying roof system and in this particular use does not become a roof system itself.
12. All products listed herein shall have an unannounced follow-up quality control program from an approved listing agency. Follow up test results shall be made available to Miami-Dade Product Control upon request.
13. Change in materials, use, or manufacture of any of the products listed herein shall be cause for termination of this Notice of Acceptance.
14. The products listed herein are components of roof assemblies and are approved for use with roof assemblies that list any of the products listed herein as part of their Roof Assembly Notice of Acceptance.
15. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
16. All approved products listed herein shall be labeled in compliance with TAS 121 and shall bear the imprint or identifiable marking of the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

MIAMI-DADE COUNTY
APPROVED

END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY
APPROVED

NOA No.: 21-0105.10
Expiration Date: 06/21/26
Approval Date: 04/29/21
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 315-2599
www.miamidade.gov/economy

GAF

1 Campus Drive
Parsippany, NJ 07054

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Acrylic Coatings over Concrete Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA 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 NOA renews and revises NOA No. 18-0119.11 consists of pages 1 through 8.

The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 22-1129.03
Expiration Date: 02/28/28
Approval Date: 03/16/23
Page 1 of 8

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Waterproofing Systems
Deck Type: Concrete
Material: Elastomeric
Maximum Design Pressure: -607.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
TOPCOAT® Elastomeric Roofing Membrane	1, 5 or 55gal.	ASTM D6083	An acrylic, water based elastomeric membrane system designed to protect various types of roofing surfaces.
GAF Surface Seal SB (formerly TOPCOAT® Surface Seal SB)	5 or 55gal	ASTM D6083	Solvent based sprayable thermoplastic rubber sealant designed to protect various types of roofing surfaces.
GAF Bleed-Block Acrylic Base Coat (Formerly TOPCOAT® MB Plus)	5 or 55gal.	Proprietary	Water based low VOC primer designed to block asphalt bleed-through.
TOPCOAT® XR-2000	5 or 55 gal.	Proprietary	Primer for pre-finished metal: (e.g., Kynar).
GAF Spray-Grade Acrylic Flashing (Formerly TOPCOAT® Flashing Spray Grade)	1, 5 gal. or 1qt tube	TAS-139	Water-based flashing compound.
GAF Flexseal Sealant	1, 5 gal. or 1qt tube	TAS 139	Solvent based flashing compound for gutters and other detailing.
GAF FireOut™ Fire Barrier Coating	5 or 55gal	Proprietary	Low VOC, water-based fire barrier coating.

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS

TABLE 2

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Ceramic Tiles	12" x 12" x ½"	ASTM C902	Ceramic plaza deck walking tiles, 5% water absorption max.	Generic
Portland Cement	15 lb. Box, 25 & 50 Bags	ANSI A118.4	A polymer modified Portland Cement.	Custom Building Products



NOA No.: 22-1129.03
 Expiration Date: 02/28/28
 Approval Date: 03/16/23
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EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name</u>	<u>Date</u>
Exterior Research & Design, LLC	G6040.03.07	TAS 114-D	03/19/07
	18026.03.02-2-R2	TAS 114-D	12/05/07
PRI Construction Materials Technologies, LLC	GAF-498-02-01	ASTM D 6083	09/16/16
	GAF-499-02-01	ASTM D 6083	03/12/14
	GAF-500-02-01	ASTM D 6083	03/12/14
	GAF-658-02-01	Proprietary	06/06/16
	GAF-667-02-01	TAS 139	07/01/16
	GAF-671-02-01	TAS 139	06/30/16
	GAF-676-02-01	Proprietary	05/31/16
	376T0038	TAS 114-D	01/09/20
376T0270	Proprietary	01/14/22	
FM Approvals	3015619	FM 4470	03/15/05
UL LLC	R1306	UL 790	03/05/23



NOA No.: 22-1129.03
 Expiration Date: 02/28/28
 Approval Date: 03/16/23
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APPROVED APPLICATIONS:

- Deck Type 3:** Concrete Decks, Non-Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type F(1):** Fully Adhered liquid applied waterproofing system.

All General Limitations apply.

All GAF Acrylic Products shall be installed in accordance with manufacturer’s specifications. The following are minimum installation guidelines. Consult the GAF Liquid-Applied Roofing Manual or Technical Service for specific/complete installation instructions.

Substrate Preparation: The TOPCOAT® Elastomeric Roofing Membrane system is to be applied over structural concrete only with a minimum slope of ¼":12". Concrete roof substrate must be completely cured and dry before application of TOPCOAT® products. Substrate should not pond water for a period longer than 48 hours.

Base Coat: Apply two or more coats of TOPCOAT® Elastomeric Roofing Membrane at a rate of 1.25 gallons per 100 square feet per coat to a wet mil thickness of 20 mils each coat. Allow 24 hours to dry and inspect base coat for defects. Correct unsatisfactory conditions prior to proceeding.

Finish Coat(s): Apply one or more finish coats of TOPCOAT® Elastomeric Roofing Membrane at a rate of 1.75 gallons per 100 square feet per coat to a wet mil thickness of 28 mils each coat. Allow 24 hours drying time prior to allowing foot traffic or inspection of roof surface.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water may be maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.

Maximum Design Pressure: -487.5 psf. (See General Limitation #9)



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Expiration Date: 02/28/28
Approval Date: 03/16/23
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Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F(2): Tile Finish over fully adhered liquid applied waterproofing system.

All General Limitations apply.

All GAF Acrylic Products shall be installed in accordance with manufacturer's specifications. The following are minimum installation guidelines. Consult the GAF Liquid-Applied Roofing Manual or Technical Service for specific/complete installation instructions.

Substrate Preparation: All surfaces must be dry, smooth, and free of depressions, voids protrusions; clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants.

Coatings: Apply two or more coats of GAF Surface Seal SB at a rate of 1 gallon per 100 square feet per coat to a wet mil thickness of 16 mils each coat. Allow 24 hours drying time prior to allowing foot traffic or inspection of roof surface. Inspect completed system for defects and correct as required.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water may be maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.

Surfacing: Exterior grade ceramic plaza deck walking tiles (Minimum size of 12" x 12" ½" thick), tiles shall be embedded into Custom Building Products Polymer modified Portland cement applied with a ¼" square notched trowel. Tiles should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable Building Code.

Maximum Design Pressure: -591 psf. (See General Limitation #9)



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Expiration Date: 02/28/28
Approval Date: 03/16/23
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Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F(3): Tile Finish over fully adhered liquid applied waterproofing system.

All General Limitations apply.

All GAF Acrylic Products shall be installed in accordance with manufacturer's specifications. The following are minimum installation guidelines. Consult the GAF Liquid-Applied Roofing Manual or Technical Service for specific/complete installation instructions.

Substrate Preparation: All surfaces must be dry, smooth, and free of depressions, voids protrusions; clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants.

Coatings: Apply three or more coats of TOPCOAT® Elastomeric Roofing Membrane at a rate of 1 gallon per 100 square feet per coat to a wet mil thickness of 16 mils each coat. Allow 24 hours drying time prior to allowing foot traffic or inspection of roof surface. Inspect completed system for defects and correct as required.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water may be maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.

Surfacing: Exterior grade ceramic plaza deck walking tiles (Minimum size of 12" x 12" ½" thick), tiles shall be embedded into Custom Building Products Polymer modified Portland cement applied with a ¼" square notched trowel. Tiles should then be carefully embedded in the mortar bed and tapped in place to insure full solid bearing. Tile shall be installed in accordance with applicable Building Code.

Maximum Design Pressure: -607.5 psf. (See General Limitation #9)



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Expiration Date: 02/28/28
Approval Date: 03/16/23
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Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F(4): Fully adhered liquid applied waterproofing system.

All General Limitations apply.

All GAF Acrylic Products shall be installed in accordance with manufacturer's specifications. The following are minimum installation guidelines. Consult the GAF Liquid-Applied Roofing Manual or Technical Service for specific/complete installation instructions.

Substrate Preparation: All surfaces must be dry, smooth, and free of depressions, voids protrusions; clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants.

Coatings: Apply three coats of GAF Surface Seal SB at a rate of 1 to 1.25 gallon per square per coat. Allow 24 hours drying time prior to allowing foot traffic or inspection of roof surface. Inspect completed system for defects and correct as required.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957 by an approved lab. Water may be maintained for a period longer than 24 hours if required.

Inspection: Contractor and a representative of the manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.

Maximum Design Pressure: -502.5 psf. (See General Limitation #9)



NOA No.: 22-1129.03
Expiration Date: 02/28/28
Approval Date: 03/16/23
Page 7 of 8

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Required integrity flood testing report in accordance with ASTM D5957 from an approved lab shall be provided to the Building Official for review at time of final inspection.
3. All work shall be performed by a Contractor licensed to do roofing/waterproofing and be a Manufacturer Trained 'Qualified Applicator' approved by GAF. GAF shall supply a list of approved applicators to the authority having jurisdiction.
4. Flashings shall be installed according to the manufacturer's published standard details and shall be submitted to the Building Official for review.
5. Contractor shall submit to the Building Official for review the system specifications and details. Submission of these documents, as well as the proper application and installation of all materials shall be the sole responsibility of the contractor.
6. Waterproofing Systems shall not be installed over lightweight insulating concrete.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and the wind load requirements of applicable Building Code.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
11. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule **61G20-3** of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 22-1129.03
Expiration Date: 02/28/28
Approval Date: 03/16/23
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Boral Roofing, LLC
7575 Irvine Center Drive, Suite 100
Irvine, CA 92618

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Barcelona 900 Concrete Roof Tile

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA 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 NOA revises NOA No.16-0711.01 and consists of pages 1 through 7.

The submitted documentation was reviewed by *Freddy Semino*



NOA No.: 18-0509.15
Expiration Date: 04/26/22
Approval Date: 06/28/18

3. LIMITATIONS:

- 3.1 Fire classification is not part of this acceptance.
- 3.2 For mortar or adhesive set tile applications, a static field uplift test in accordance with TAS 106 may require, refer to applicable building code.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Department of Regulatory and Economic Development – Product Control Section for review.
- 3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.

4. INSTALLATION

- 4.1 Barcelona 900 Concrete Roof Tile and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119, and RAS 120.
- 4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Barcelona 900	11.5	1.417	1.08

Table 2: Aerodynamic Multipliers - λ (ft ³)		
Tile Profile	λ (ft ³) Batten Application	λ (ft ³) Direct Deck Application
Barcelona 900	0.286	0.301

Table 3: Restoring Moments due to Gravity - M_g (ft-lbf)												
Tile Profile	2":12"		3":12"		4":12"		5":12"		6":12"		7":12" or greater	
	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck
Barcelona 900	6.19	7.07	6.19	7.00	6.19	6.90	6.06	6.76	5.92	6.60	5.76	6.42



NOA No.: 18-0509.15
 Expiration Date: 04/26/22
 Approval Date: 06/28/18

**Table 6: Attachment Resistance Expressed as a Moment M_f (ft-lbf)
for Two Paddy Adhesive¹ Set Systems**

Tile Profile	Tile Application	Minimum Attachment Resistance
Barcelona 900	Tile Bond™ One Component Roof Tile Adhesive	29.3 ²
	ICP Adhesives Polyset® AH-160 two-component foam	29.3 ³
	DAP Foam Touch N Seal StormBond® 2 Roof Tile Adhesive	66 ⁴

- 1 See manufactures component approval for installation requirements.**
2 TILE BOND™ Roof Tile Adhesive; Average weight per paddy 10.7 grams.
3 ICP Adhesives and Sealants, Inc.'s ICP Adhesives Polyset AH-160; Average weight per paddy 8 grams.
4 DAP Foam Touch N Seal StormBond® Roof Tile Adhesive Two-Component; Average weight per paddy 8 grams.

**Table 7: Attachment Resistance Expressed as a Moment - M_f (ft-lbf)
for Single Paddy Adhesive Set Systems**

Tile Profile	Tile Application	Minimum Attachment Resistance
Barcelona 900	ICP Adhesives Polyset® AH-160 two-component foam	66.5 ⁵
	ICP Adhesives Polyset® AH-160 two-component foam	38.7 ⁶
	DAP Foam Touch N Seal StormBond® 2	63 ⁷
	DAP Foam Touch N Seal StormBond® 2	82 ⁸

- 5 Large paddy placement of 63 grams**
6 Medium paddy placement of 24 grams
7 Medium paddy placement of 30 grams
8 Large paddy placement of 60 grams

**Table 8: Attachment Resistance Expressed as a Moment - M_f (ft-lbf)
for Mortar Set Systems**

Tile Profile	Tile Application	Attachment Resistance
Barcelona 900	Mortar Set ⁹	24.5

- 9 See specific mortar manufacturers Notice of Acceptance**





MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 315-2599
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

Ceramica La Escandella S.A.
Ctra. Novelda, km 2,5
03698 Agost (Alicante) SPAIN

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: La Escandella Barrel Clay Roof Tile

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA 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 NOA renews NOA # 13-0311.02 and consists of pages 1 through 5.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 18-0326.02
Expiration Date: 04/17/23
Approval Date: 05/24/18
Page 1 of 5

3. LIMITATIONS

- 3.1 Fire classification is not part of this acceptance.
- 3.2 For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with TAS 106.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Miami-Dade Product Control office for review.
- 3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
- 3.7 All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

4. INSTALLATION

- 4.1 La Escandella Barrel Clay Roof Tile and its components shall be installed in strict compliance with Roofing Application Standard RAS 120.
- 4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
La Escandella Barrel Clay Roof Tile	5.29	1.64	0.72

Table 6: Attachment Resistance Expressed as a Force - F (ft-lbf) for Single Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
La Escandella Barrel Clay Roof Tile	ICP Adhesive Polyset AH-160	186 ¹
1 Large paddy placement 47g for the Pan. Half the amount on each side for the cap tile.		



Florida Building Code 7th Edition (2020)
High-Velocity Hurricane Zone Uniform Permit Application Form

Section E (Tile Calculations)

For Moment based tile systems, choose either Method 1 or 2. Compare the values for M_r with the values from M_i . If the M_i values are greater than or equal to the M_r values, for each area of the roof, then the tile attachment method is acceptable.

NOA #:18-0509.15

Method 1 "Moment Based Tile Calculations Per RAS 127"

(Zone 1: $-57 \times \lambda \ 0.301 = -17.157$)	$- Mg: \ 6.76 = M_{r1} \ 23.917$	Product Approval $M_i \ 29.3$
(Zone 2e: $-57 \times \lambda \ 0.301 = -17.157$)	$- Mg: \ 6.76 = M_{r2e} \ 23.917$	Product Approval $M_i \ 29.3$
(Zone 2n: $-91 \times \lambda \ 0.301 = -27.391$)	$- Mg: \ 6.76 = M_{r2n} \ 34.151$	Product Approval $M_i \ 29.3$
(Zone 2r: $-91 \times \lambda \ 0.301 = -27.391$)	$- Mg: \ 6.76 = M_{r2r} \ 34.151$	Product Approval $M_i \ 29.3$
(Zone 3e: $-91 \times \lambda \ 0.301 = -27.391$)	$- Mg: \ 6.76 = M_{r3e} \ 34.151$	Product Approval $M_i \ 29.3$
(Zone 3r: $-128 \times \lambda \ 0.301 = -38.528$)	$- Mg: \ 6.76 = M_{r3r} \ 45.288$	Product Approval $M_i \ 29.3$

Method 2 "Simplified Tile Calculations Per Table Below"

Required Moment of Resistance (M_r) From Table Below _____ Product Approval M_i _____

Mean Roof Height Roof Slope	M_r required Moment Resistance*				
	15'	20'	25'	30'	40'
2:12	34.4	36.5	38.2	39.7	42.2
3:12	32.2	34.4	36.0	37.4	39.8
4:12	30.4	32.2	33.8	35.1	37.3
5:12	28.4	30.1	31.6	32.8	34.9
6:12	26.4	28.0	29.4	30.5	32.4
7:12	24.4	25.9	27.1	28.2	30.0

*Must be used in conjunction with a list of moment based tile systems endorsed by the Broward County Board of Rules and Appeals.

NOA 3:18-0326.02

Use Method 3. Compare the values for F_r with the values for F_r . If the F_r values are greater than or equal to the F_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 3 "Uplift Balance" ; Per RAS 127"
cos for a 4:12 pitch is 0.95

(Zone 1: $-57 \times L \ 1.64 = -93.5$)	$\times w: = -67.3$	$- W \ 5.29 \times \cos \ r \ 0.95 = F_{r1} \ -32.3$	Product Approval $F_r \ -186$
(Zone 2e: $-57 \times L \ 1.64 = -93.5$)	$\times w: = -67.3$	$- W \ 5.29 \times \cos \ r \ 0.95 = F_{r2e} \ -62.3$	Product Approval $F_r \ -186$
(Zone 2n: $-91 \times L \ 1.64 = -149.2$)	$\times w: = -107.4$	$- W \ 5.29 \times \cos \ r \ 0.95 = F_{r2n} \ -62.3$	Product Approval $F_r \ -186$
(Zone 2r: $-91 \times L \ 1.64 = -149.2$)	$\times w: = -107.4$	$- W \ 5.29 \times \cos \ r \ 0.95 = F_{r2r} \ -102.4$	Product Approval $F_r \ -186$
(Zone 3e: $-91 \times L \ 1.64 = -149.2$)	$\times w: = -107.4$	$- W \ 5.29 \times \cos \ r \ 0.95 = F_{r3e} \ -102.4$	Product Approval $F_r \ -186$
(Zone 3r: $-128 \times L \ 1.64 = -209.9$)	$\times w: = -151.1$	$- W \ 5.29 \times \cos \ r \ 0.95 = F_{r3r} \ -146.1$	Product Approval $F_r \ -186$

Where to Obtain Information		
Description	Symbol	Where to find
Design Pressure	Zones 1, 2e, 2n, 2r, 3e, 3r	From applicable table in RAS 127 or by an engineering analysis prepared by PE based on ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	(θ)	Job Site
Aerodynamic Multiplier	λ	Product Approval
Restoring Moment due to Gravity	M_g	Product Approval
Attachment Resistance	M_i	Product Approval
Required Moment Resistance	M_r	Calculated
Minimum Attachment Resistance	F'	Product Approval
Required Uplift Resistance	F_r	Calculated
Average Tile Weight	W	Product Approval
Tile Dimensions	L = length W = width	Product Approval

All calculations must be submitted to the building official at the time of permit application.