

**GAF Waterproofing
(Includes Ruberoid® Plaza Deck)**

**Miami-Dade County
Notice of Acceptance (NOA)**

Updated: 6/07



*Quality You Can Trust...From
North America's Largest Roofing Manufacturer!™*

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**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**GAF Materials Corporation
1361 Alps Road
Wayne, NJ 07470**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Waterproofing

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 No. 02-0515.02 and consists of pages 1 through 8.
The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Waterproofing
Material: Modified Bitumen

Deck Type: Concrete
Maximum Design Pressure: -537.5 psf
Fire Classification: N/A

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Ruberoid 20	1.5 sq rolls	ASTM D6163, Type I, Grade S	SBS Modified, Torch-Applied Modified Bitumen Roof Membrane
Ruberoid 30	1.0 sq rolls	ASTM D6163, Type I, Grade G	SBS Modified, Torch-Applied Modified Bitumen Roof Membrane
Ruberoid 30FR	1.0 sq rolls	ASTM D6163, Type I, Grade G	SBS Modified, Torch-Applied Modified Bitumen Roof Membrane
Ruberoid Mop	1.0 sq rolls	ASTM D6164, Type I, Grade S or G	SBS Modified, Asphalt-Adhered Modified Bitumen Roofing Membrane
Ruberoid Mop 170FR	1.0 sq rolls	ASTM D6164, Type I, Grade G	SBS Modified, Asphalt-Adhered Modified Bitumen Roofing Membrane
Ruberoid Mop Plus	1.0 sq rolls	ASTM D6164, Type II, Grade G	SBS Modified, Asphalt-Adhered Modified Bitumen Roofing Membrane
Ruberoid Mop FR	1.0 sq rolls	ASTM D6164, Type II, Grade G	SBS Modified, Asphalt-Adhered Modified Bitumen Roofing Membrane
Ruberoid Torch Smooth	1.0 sq rolls	ASTM D6222, Type I, Grade S	APP Modified, Torch-Applied Modified Bitumen Roof Membrane
Ruberoid Torch Plus Smooth	1.0 sq rolls	ASTM D6222, Type II, Grade S	APP Modified, Torch-Applied Modified Bitumen Roof Membrane
Ruberoid Torch FR Smooth	0.75 sq rolls	ASTM D6222, Type I, Grade S	APP Modified, Torch-Applied Modified Bitumen Roof Membrane
Ruberoid Torch Flashing	10' X 32'9"		APP Modified, Torch-Applied Modified Bitumen Roof Membrane Flashing



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TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS

<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
INSTA-STIK	It is supplied in a pressurized cylinders with a net weight of 23 lbs., with a total unit weight of 30 lbs.		A single component moisture curing urethane foam adhesive designed to adhere various roof insulations to other insulations, to a concrete substrate, and to properly prepared build-up roof coverings.	Dow Chemical U.S.A.
Thin set Mortar	15 lb. Box, 25 & 50 Bags	ANSI A118.1 & A118.4	A bonding agent for tiles.	Custom Building Products
Portland Cement	94 lb. Bags	ASTM C 220	Type I Portland Cement.	Generic

EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Underwriters Laboratories, Inc.	Physical Properties ASTM D5147	File R1306 Project 99NK29257	03/16/00
Exterior Research & Design, LLC.	TAS 114	#18031.02LAB	07/01/02



APPROVED APPLICATIONS:

Deck Type 3(I):	Insulated Concrete Decks, Roof Plaza Decks, Parking Decks
Deck Description:	Min. 2500 psi, dual slab construction (roof plaza and parking decks)
System Type:	Ruberoid Membranes adhered directly to overlay board.
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	ASTM D-41 asphalt primer installed at the rate of 1-2 gallons per 100 square feet.
Insulation:	Min. 1.5" thick GAFTEMP Isotherm insulation adhered to deck with Insta-Stick Insulation Adhesive with a continuous ¾ to 1 inch minimum wide beads of adhesive spaced 12" on center.
Overlay Board:	Min. ½" thick G-P Gypsum Dens-Deck adhered to insulation with Insta-Stick Insulation Adhesive with a continuous ¾ to 1 inch minimum wide beads of adhesive spaced 12" on center, beads shall be perpendicular to bottom layer of insulations.
Base Ply(s):	One or more plies of Ruberoid Mop (Smooth) applied in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Ruberoid Torch (Smooth), torch applied according to manufacturer's application instructions.
Top Ply:	One ply of Ruberoid Mop (Smooth) applied in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Ruberoid Torch (Smooth), torch applied according to manufacturer's application instructions.
Membrane Flashing:	Membrane flashings shall consist of a minimum of two plies of Ruberoid Torch or Mop membrane. Penetration flashings must be a minimum of 8 inches above the top surface of the traffic surfacing and extend horizontally on the deck 4 inches and then 8 inches for the flashing base and cap plies respectively.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe 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.
Protection and/or Drainage Layer:	Install drainage board over top ply membrane
Surfacing:	Structural Concrete Slab, minimum 2500 psi, in compliance with applicable Building Code.



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Deck Type 3: Non-Insulated, Concrete Decks, Roof Plaza Decks, Parking Decks

Deck Description: Min. 2500 psi, dual slab construction (roof plaza and parking decks)

System Type: Ruberoid Membranes adhered directly to substrate

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

Primer: ASTM D-41 asphalt primer installed at the rate of 1-2 gallons per 100 square feet.

Base Ply(s): One or more plies of Ruberoid Mop (Smooth) applied in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Matrix 102 Select SBS Adhesive (Ruberoid Modified Bitumen Adhesive) at 1-2 gallons/square or Ruberoid Torch (Smooth), torch applied according to manufacturer's application instructions.

Top Ply: One ply of Ruberoid Mop (Smooth) applied in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. asphalt or Matrix 102 Select SBS Adhesive (Ruberoid Modified Bitumen Adhesive) at application rate of 1-2 gal/sq. or Ruberoid Torch, torch applied according to manufacturer's application instructions.

Membrane Flashing: Membrane flashings shall consist of a minimum of two plies of Ruberoid Torch or Mop membrane. Penetration flashings must be a minimum of 8 inches above the top surface of the traffic surfacing and extend horizontally on the deck 4 inches and then 8 inches for the flashing base and cap plies respectively.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. 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.

Protection and/or Drainage Layer: Install drainage board over top ply membrane

Surfacing: Structural Concrete Slab, minimum 2500 psi, in compliance with applicable Building Code.



Deck Type 3:	Non-Insulated, Concrete Decks, Roof Plaza Decks, Parking Decks
Deck Description:	Min. 2500 psi
System Type:	Tile Finish over Ruberoid Mop
Substrate Preparation:	All surfaces must be dry, smooth, free of depressions, voids, and protrusions, and clean and free of any non-compatible curing compounds, foam release agents and other surface contaminants. Substrate shall be smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
Primer:	ASTM D-41 asphalt primer installed at the rate of 1-2 gallons per 100 square feet.
Base Ply(s):	One or more plies of Ruberoid Mop (Smooth) applied in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Top Ply:	One ply of Ruberoid Mop (Smooth) applied in approved asphalt in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane Flashing:	Membrane flashings shall consist of a minimum of two plies of Ruberoid Torch or Mop membrane. Penetration flashings must be a minimum of 8 inches above the top surface of the traffic surfacing and extend horizontally on the deck 4 inches and then 8 inches for the flashing base and cap plies respectively.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water may be maintained for a period longer than 24 hours if desired.
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.
Surfacing:	Exterior grade ceramic plaza deck walking tiles (Maximum size of 12" x 12" and minimum 1/2" thick), tiles shall be embedded into Custom Building Products thin-set mortar applied with a 1/4" 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:	-447.5 psf (See General Limitation #9.)



Deck Type 3: Non-Insulated, Concrete Decks, Roof Plaza Decks, Parking Decks

Deck Description: Min. 2500 psi

System Type: Tile Finish over Ruberoid Torch

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

Primer: ASTM D-41 asphalt primer installed at the rate of 1-2 gallons per 100 square feet.

Base Ply(s): One or two plies of Ruberoid Torch (Smooth), torch applied according to manufacturer's application instructions.

Top Ply: One ply of Ruberoid Torch (Smooth), torch applied according to manufacturer's application instructions.

Membrane Flashing: Membrane flashings shall consist of a minimum of two plies of Ruberoid Torch or Mop membrane. Penetration flashings must be a minimum of 8 inches above the top surface of the traffic surfacing and extend horizontally on the deck 4 inches and then 8 inches for the flashing base and cap plies respectively.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. Water maybe 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.

Surfacing: Exterior grade ceramic plaza deck walking tiles (Maximum size of 12" x 12" and minimum 1/2" thick), tiles shall be embedded into Custom Building Products thin-set mortar or thin set/latex mix mortar applied with a 1/4" 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: -537.5 psf (See General Limitation #9.)



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 shall be provided to the Building Official for review at time of final inspection.
3. Contractor shall be approved by GAF Materials Corporation, Inc.
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. 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 with 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.)**

END OF THIS ACCEPTANCE



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