



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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Gaco a div. of Firestone Building Products Company, LLC
200 4th Ave. South
Nashville, TN 37201

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: GacoRoofFoam™ over Wood Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city and state of manufacturing facility, 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. 18-1206.13 and consists of pages 1 through 7.

The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 23-0405.10
Expiration Date: 11/01/28
Approval Date: 11/02/23
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ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Spray Applied Polyurethane Roof System
<u>Materials:</u>	Polyurethane
<u>Deck Type</u>	Wood
<u>Maximum Design Pressure:</u>	-82.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
GacoRoofFoam™ 2733	2.5 to 3.0 lbs./ft ³ density	TAS 110	Polyurethane spray applied foam that utilizes an HFC blowing agent intended for roofing applications.
GacoFlex® A-31	3 coats, 3.75gal/100ft ² min. total	ASTM D6083	Acrylic one-component elastomeric coating
GacoFlex® S-21	1 or 2 coats, 1.5gal/100ft ² min. total	ASTM D6694	Silicone one-component, solvent-free, moisture-cured, elastomeric coating
GacoFlex® S-20	1 or 2 coats, 1.5gal/100ft ² min. total	ASTM D6694	Silicone one-component, solvent-free, moisture-cured, elastomeric coating
GacoFlex® S-42	1 or 2 coats, 1.25gal/100ft ² min. total	ASTM D6694	Silicone one-component, solvent-free, moisture-cured, elastomeric coating
GacoRoof® GR-16	1 or 2 coats, 2.0gal/100ft ² min. total	ASTM D6694	Silicone one-component elastomeric coating
GacoFlex® S-10	1 or 2 coats, 2.2gal/100ft ² min. total	ASTM D6694	Silicone one-component elastomeric coating
Firestone MB Base	36" x 108'	ASTM D4601	Fiberglass reinforced base sheet; asphalt coated on both sides.
Firestone SBS Premium Base	39.4" x 50'	ASTM D6163	Fiberglass reinforced SBS modified bitumen with sanded surfaces.

APPROVED INSULATIONS:**TABLE 2**

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
N/A	N/A	N/A

APPROVED FASTENERS:**TABLE 3**

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Firestone Insulation Fastening Plate	Insulation plate for use with Firestone Fasteners	3" round	Firestone Building Products Company, LLC.
2.	Firestone All-Purpose	Insulation and membrane fastener for the attachment of roofing insulation and base sheets	Various	Firestone Building Products Company, LLC.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
UL LLC	R5663	UL 790	09/20/23
FM Approvals	3023644	4470	02/02/07
	3052963	4470	10/21/14
Intertek	102219761MID-001	TAS 110 SPUF Physical Properties	07/22/15
	102206114MID-001	ASTM C273/D1622	07/22/15
PRI Construction Materials Technologies, LLC	GWI-043-02-01	ASTM D6694	01/19/18
	GWI-045-02-01	ASTM D6083	07/21/17
	GWI-042-02-01	ASTM D6694	01/09/18
	GWI-062-02-01	ASTM D6694	05/22/18
	GWI-044-02-01	ASTM D6694	01/09/18
	GWI-057-02-01.1	FM 4474 / TAS 114 J	08/16/18
	GWI-067-02-01	FM 4474 / TAS 114 C	04/03/19
	GWI-072-02-01	ASTM D562 / ASTM D1644	02/19/19
	GWI-071-02-01	ASTM D6694	9/12/19
	GWI-076-02-01	FM 4474 / TAS 114 J	04/03/19
	GWI-024-02-02	ASTM D6694	06/01/16
	GWI-026-02-01	ASTM D6694	12/11/15
	FBP-053-02-01 Rev 1	TAS 110 / ASTM D6163	10/08/12
	FBP-058-02-01	ASTM D 4601	11/28/11
	FBP-104-02-01.1	FM 4474 / TAS 114 J	06/19/13
NEMO ETC LLC	348T0093	ASTM D6163 / TAS 110	02/15/21
	4q-FBP-22-SSMBB-01.A	ASTM D6163	09/09/22

Deck Type 1:	Wood, Non-Insulated
Deck Description:	19/32" or greater plywood or wood plank
System Type E(1):	Sprayed polyurethane foam applied directly to base sheet attached to wood deck and covered with the specified Miami-Dade Approved roof coating.
Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than; #8 Ring shank nails spaced 6" o.c. at the field and the perimeter of the plywood sheet. With support members having a maximum spacing of 24" o.c. The above attachment method must be in addition to existing attachment.

All General and System Limitations apply.

Anchor Sheet:	One ply of Firestone MB Base sheet, mechanically fastened to the deck as described below:
Fastening:	Attach anchor sheet using approved 1-5/8" Firestone All Purpose Fasteners and Insulation Fastening Plates spaced 12" o.c. in the 3" side laps and 12" o.c. in two staggered rows in the field of the sheet.
Surface Preparation:	Substrate shall be free of loose dirt, grease, oil or other contaminants prior to priming or foam application. Remove all loose dirt or debris by use of compressed air, vacuum or brooming. No washing shall be permitted. Oil, grease, release agents or other contaminants shall be removed with proper cleaning solutions.
Polyurethane Foam Application:	GacoRoofFoam™ 2733 shall be applied uniformly over the entire surface at the specified thickness in compliance with the requirements set forth in Roofing Application Standard RAS 109, but in no case shall it be less than 1 in. thick. The sprayed polyurethane foam shall be feathered at the edges to produce a smooth transition.
Protective Coating Application:	GacoFlex® A-31, GacoFlex® S-21, GacoFlex® S-20, GacoRoof® GR-16, GacoFlex® S-10 or GacoFlex® S-42 shall be applied according to the coating manufacturer's current published application instructions. Polyurethane foam surface shall be free of moisture, dust, debris, oils, tars, grease or other materials that will impair adhesion of the protective coverings. Any damage or defects to the polyurethane foam surface shall be repaired prior to the coating application. The coating shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the coatings, the polyurethane foam shall be inspected for UV degradation.
Maximum Design Pressure:	-67.5 psf. (See General Limitation #7.)

Deck Type 1:	Wood, Non-Insulated
Deck Description:	19/32" or greater plywood or wood plank
System Type E(2):	Sprayed polyurethane foam applied directly to base sheet attached to wood deck and covered with the specified Miami-Dade Approved roof coating.
Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than; #8 Ring shank nails spaced 6" o.c. at the field and the perimeter of the plywood sheet. With support members having a maximum spacing of 24" o.c. The above attachment method must be in addition to existing attachment.

All General and System Limitations apply.

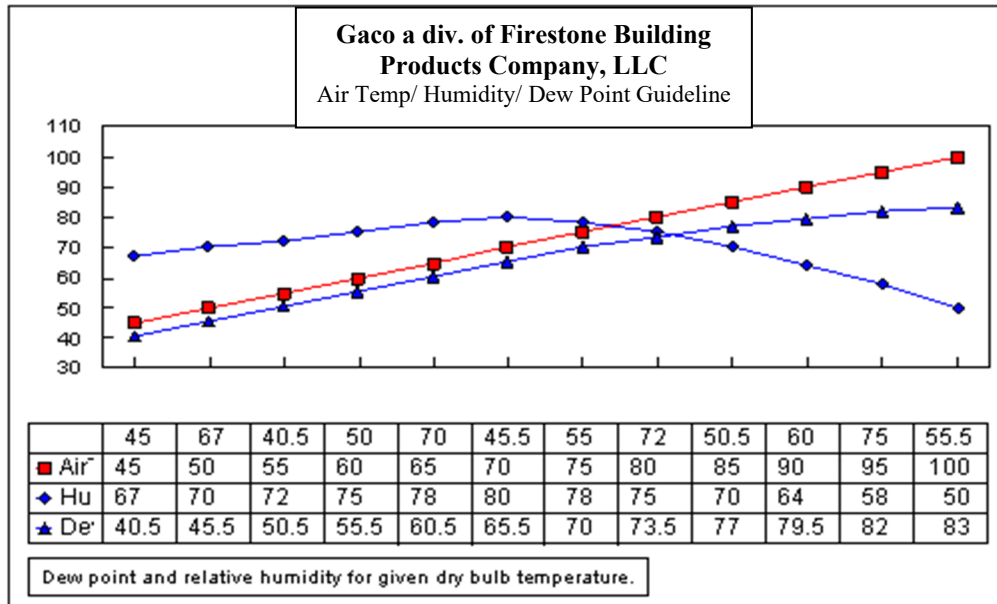
Anchor Sheet:	One ply of Firestone SBS Premium Base sheet, mechanically fastened to the deck as described below:
Fastening:	Attach anchor sheet using approved 0.120" x 1-1/4" ring shank roofing nails with 1-5/8" diameter, 32 ga. tin tabs spaced 6" o.c. in the 3.5" side laps and 6" o.c. in three staggered rows in the field of the sheet.
Surface Preparation:	Substrate shall be free of loose dirt, grease, oil or other contaminants prior to priming or foam application. Remove all loose dirt or debris by use of compressed air, vacuum or brooming. No washing shall be permitted. Oil, grease, release agents or other contaminants shall be removed with proper cleaning solutions.
Polyurethane Foam Application:	GacoRoofFoam™ 2733 shall be applied uniformly over the entire surface at the specified thickness in compliance with the requirements set forth in Roofing Application Standard RAS 109, but in no case shall it be less than 1 in. thick. The sprayed polyurethane foam shall be feathered at the edges to produce a smooth transition.
Protective Coating Application:	GacoFlex® A-31, GacoFlex® S-21, GacoFlex® S-20, GacoRoof® GR-16 GacoFlex® S-10 or GacoFlex® S-42 shall be applied according to the coating manufacturer's current published application instructions. Polyurethane foam surface shall be free of moisture, dust, debris, oils, tars, grease or other materials that will impair adhesion of the protective coverings. Any damage or defects to the polyurethane foam surface shall be repaired prior to the coating application. The coating shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the coatings, the polyurethane foam shall be inspected for UV degradation.
Maximum Design Pressure:	-82.5 psf. (See General Limitation #7.)

Deck Type 1:	Wood, Non-Insulated
Deck Description:	19/32" or greater plywood or wood plank
System Type E(3):	Sprayed polyurethane foam applied directly to base sheet attached to wood deck and covered with the specified Miami-Dade Approved roof coating.
Deck Attachment:	In accordance with applicable Building Code, but in no case shall it be less than; #8 Ring shank nails spaced 6" o.c. at the field and the perimeter of the plywood sheet. With support members having a maximum spacing of 24" o.c. The above attachment method must be in addition to existing attachment.

All General and System Limitations apply.

Anchor Sheet:	One ply of Firestone MB Base sheet, mechanically fastened to the deck as described below:
Fastening:	Attach anchor sheet using approved 12 ga. x 1-1/4" ring shank roofing nails with 1-5/8" diameter, 32 ga. tin tabs spaced 9" o.c. in the 2" side laps and 9" o.c. in three staggered rows in the field of the sheet.
Surface Preparation:	Substrate shall be free of loose dirt, grease, oil or other contaminants prior to priming or foam application. Remove all loose dirt or debris by use of compressed air, vacuum or brooming. No washing shall be permitted. Oil, grease, release agents or other contaminants shall be removed with proper cleaning solutions.
Polyurethane Foam Application:	GacoRoofFoam™ 2733 shall be applied uniformly over the entire surface at the specified thickness in compliance with the requirements set forth in Roofing Application Standard RAS 109, but in no case shall it be less than 1 in. thick. The sprayed polyurethane foam shall be feathered at the edges to produce a smooth transition.
Protective Coating Application:	GacoFlex® A-31, GacoFlex® S-21, GacoFlex® S-20, GacoRoof® GR-16, GacoFlex® S-10 or GacoFlex® S-42 shall be applied according to the coating manufacturer's current published application instructions. Polyurethane foam surface shall be free of moisture, dust, debris, oils, tars, grease or other materials that will impair adhesion of the protective coverings. Any damage or defects to the polyurethane foam surface shall be repaired prior to the coating application. The coating shall be applied the same day as the foam when possible. If more than 72 hours elapse prior to the application of the coatings, the polyurethane foam shall be inspected for UV degradation.
Maximum Design Pressure:	-52.5 psf. (See General Limitation #7.)

TABLE 1
AMBIENT HUMIDITY APPLICATION LIMITS
SPRAYED POLYURETHANE FOAM



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. Spray polyurethane foam shall not be sprayed when ambient temperature is within 5 degrees of the dew point. Ambient humidity applications limits shall be as listed in Table 1 herein. Contractor shall monitor and record environmental conditions in the Job Log in compliance with RAS 109. Job Log shall be maintained at the job site and accessible to The Building Official.
3. Flashings and waterproof coverings for expansion joints shall be of compatible materials and according to the sprayed polyurethane foam manufacture's published literature.
4. Miscellaneous materials such as adhesives, elastomeric caulking compounds, metal, vents and drains shall be a composite part of the roof system and shall be compatible with the foam and coating.
5. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
6. 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.
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.)**

END OF THIS ACCEPTANCE