



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

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: Firestone EPDM Single Ply Roof Systems over Wood 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 revises NOA No. 18-0509.09 and consists of pages 1 through 10.
The submitted documentation was reviewed by Hamley Pacheco, P.E.



NOA No.: 19-0313.04
Expiration Date: 08/10/23
Approval Date: 03/19/20
Page 1 of 10

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Material:	EPDM
Deck Type:	Wood
Maximum Design Pressure:	-52.5 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>
FullForce EPDM	60 mil	ASTM D4637 Type I	Non-Reinforced EPDM membrane with a factory-applied pressure sensitive adhesive on the back side.
RubberGard MAX [®]	45, 60 & 75 mil	ASTM D4637 Type II	Polyester scrim reinforced EPDM membrane.
RubberGard MAX FR [®]	45, 60 & 75 mil	ASTM D4637 Type II	Fire Retardant Polyester scrim reinforced EPDM membrane .
RubberGard MAX PT [®]	45 & 60 mil	ASTM D4637 Type II	Polyester scrim reinforced EPDM membrane with integrated 3” pre-applied seam tape.
RubberGard Platinum [®]	90 mil	ASTM D4637 Type I	Non-Reinforced EPDM membrane.
RubberGard LS-FR [®]	45 & 60 mil	ASTM D4637 Type I	Fire Retardant Non-Reinforced EPDM membrane.
RubberGard LS-FR PT [®]	60 mil	ASTM D4637 Type I	Fire Retardant Non-Reinforced EPDM membrane with integrated 3” pre-applied seam tape.
RubberGard EcoWhite [®]	60 & 90 mil	ASTM D4637 Type I	Non-Reinforced, bi-laminate, white on black EPDM membrane.
RubberGard EcoWhite [®] PT	60 mil	ASTM D4637 Type I	Non-Reinforced, bi-laminate, white on black EPDM membrane with QuickSeam Tape.
EPDM FormFlash	various	ASTM D4811	Self-curing EPDM flashing
Reinforced Perimeter Fastening Strip	.045" x 6" x 100'	ASTM D4637	Non-dusted EPDM reinforced strip for non-penetrating base tie-in details
BA-2004 T	5 gallon pail	Proprietary	Neoprene based bonding adhesive
Single-Ply LVOC Bonding Adhesive	5 gal. pail	Proprietary	Solvent based bonding adhesive.
Single-Ply LVOC Bonding Adhesive 1168	5 gal. pail	Proprietary	Solvent based bonding adhesive.
Water Based Bonding Adhesive-P	5 gal. pail	Proprietary	Water based bonding adhesive.
Single-Ply QuickPrime Primer	3 gal. pail	Proprietary	Solvent based primer used to clean EPDM
EcoWhite [®] QuickSeam Splice Tape	3" x 100' 6" x 100'	Proprietary	Tape for field splicing



<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Splice Adhesive SA-1065	1 gallon and 5 gallon pails	Proprietary	Synthetic polymer based adhesive
QuickPrime Plus	1 gallon and 3 gallon pails	Proprietary	Primer used to clean and prime EPDM
Single-Ply LVOC Primer	1 gallon and 3 gallon pails	Proprietary	Primer used to clean and prime EPDM
QuickSeam Flashing	.080" x various widths x 100'	Proprietary	Semi-cured EPDM flashing laminated to cure seam tape
QuickSeam Batten Cover	.095" x various widths x 100'	Proprietary	Cured EPDM and a seam adhesive laminate
QuickSeam Joint Cover	.070" x 5.75" diameter	Proprietary	FormFlash with two layers of butyl/EPDM adhesive tape laminate
QuickSeam Tape	3" x 100'	Proprietary	Tape for field splicing
QuickSeam R.M.A. Strip	10" x 100'	Proprietary	Strip of RubberGard MAX with QuickSeam Tape for anchoring membrane to substrate
Splice Wash SW-100	5 gallon pail	Proprietary	Cleaning and prep solution for EPDM
Pourable Sealer S-10	.78 gallon, Part A .10 gallon, Part B	Proprietary	Two part polyurethane sealant

APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
ISO 95+ GL, ISO 95+ GL Tapered	Isocyanurate Insulation	Firestone Building Products Company, LLC USG Corp.
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	Georgia Pacific Gypsum LLC
DensDeck, DensDeck Prime	Silicon treated gypsum	Firestone Building Products Company, LLC
RESISTA and tapered	Polyisocyanurate foam core laminated to a coated fiberglass facer	Firestone Building Products Company, LLC
ISOGARD HD	Polyisocyanurate with a coated fiberglass facer	Firestone Building Products Company, LLC
ISOGARD HD Composite	Polyisocyanurate with a coated fiberglass facer composite insulation.	Firestone Building Products Company, LLC



APPROVED FASTENERS / ADHESIVES:

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 All-Purpose	Insulation and membrane fastener	Various	Firestone Building Products Company, LLC
2.	Firestone Heavy-Duty	Insulation and membrane fastener	Various	Firestone Building Products Company, LLC
3.	2" Metal Plate	Membrane seam attachment plate.	2" dia	Firestone Building Products Company, LLC
4.	Insulation Fastening Plate	Galvalume insulation plate	3" diameter	Firestone Building Products Company, LLC
5.	HD HailGard Fastener	Fastener for use with OSB and Firestone HailGard products	Various	Firestone Building Products Company, LLC
6..	V-Plate	Membrane seam attachment plate.	2¼" dia.	Firestone Building Products Company, LLC
7.	Metal Batten Bar	Galvalume AZ55 batten strip	10' long, 1" wide	Firestone Building Products Company, LLC
8.	Firestone Polymer Batten Strip	Polymer, corrosion –free, batten strip.	250' long, ¾" or 1" wide	Firestone Building Products Company, LLC



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Underwriters Laboratories, Inc.	R9516	UL790	07/17/13
Factory Mutual Research Corp.	1T7A3.AM	FM 4470	01/18/92
	1V6A9.AM	FM 4470	02/27/92
	1W3A4.AM	FM 4470	12/01/92
	2W6A2.AM	FM 4470	06/25/93
	2X9A8.AM	FM 4470	06/14/94
	3011282	FM 4470	08/08/02
	3019991	FM 4470	09/20/05
	3034561	FM 4470	12/08/08
	3036256	FM 4470	04/27/09
	3038442	FM 4470	11/18/10
	3038770	FM 4470	08/04/11
	3043994	FM 4470	02/15/12
	3045334	FM 4470	06/11/12
	3052559	FM 4470	03/04/15
	3063586	FM 4470	08/30/18
	PRI Construction Materials Technologies LLC	FBP-136-02-01	Physical Properties
FBP-162-02-01.1		Physical Properties	05/15/14
FBP-044-02-01.9		TAS 117-B/TAS 114-H/J	06/01/17
FBP-072-02-02		Physical Properties	06/25/18
FBP-281-02-02		ASTM D4637	10/18/18
Trinity ERD	F12260.02.09-2	TAS 114-D/ TAS 114-J	02/04/09
	F9240.03.09-R2	ASTM D4637	07/30/09
	F9240.11.08-R1	ASTM D4637	07/10/09
	F9240.07.08-R2	ASTM D4637	07/10/09
	F13260.08.09-1	ASTM D4637	08/07/09
	F45950.05.14	ASTM D4637	05/13/14



APPROVED ASSEMBLIES

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type II: Wood, Insulated

Deck Description: 19/32" or greater plywood or wood plank

System Type C(1): All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL		
Minimum 1.5" thick	1 or 2	1:2 ft ²
Minimum 2" thick	1 or 2 with 4	1:4 ft ²

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The 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.

Fire Barrier: Gypsum board, minimum thickness 1/2", placed between the deck and the insulation.

Membrane: Fully adhere RubberGard MAX, RubberGard MAX FR, RubberGard MAX PT, RubberGard Platinum, RubberGard LS-FR, RubberGard LS-FR PT, RubberGard EcoWhite or Rubber EcoWhite PT membrane to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive, or Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal.

Or

FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with factory applied pressure sensitive adhesive to primed top surface with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer.

Maximum Design Pressure: -45 psf. (See General Limitation #9)



Membrane Type: EPDM, Reinforced, Non-reinforced
Deck Type II: Wood, Insulated
Deck Description: 19/32" or greater plywood or wood plank
System Type C(2): All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Note: FR treated wood decks require minimum 1/4" thick DensDeck board placed under the insulation.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ISO 95+ GL, RESISTA Minimum 1.2" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below 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.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Plywood Minimum 19/32" thick	5	1:2.6 ft ²

Membrane: RubberGard Max[®], RubberGard Max FR[®], RubberGard Platinum[®], RubberGard LS-FR[®], RubberGard EcoWhite[®] or RubberGard EcoWhite PT EPDM membrane adhered with BA-2004 T, Single-Ply LVOC Bonding Adhesive, or Single-Ply LVOC Bonding Adhesive 1168 at a rate of 60 sq. ft./gal. Roof cover side laps are sealed with SA-1065 Splice Adhesive applied at a rate of 120 lineal feet per gallon after priming with Single-Ply LVOC Primer or QuickPrime Plus Primer and QuickSeam Tape.

Or

FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with factory applied pressure sensitive adhesive to primed top surface with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer.

Maximum Design Pressure: -45 psf. (See General Limitation #9)



Membrane Type: EPDM, Non-reinforced
Deck Type II: Wood, Insulated
Deck Description: 19/32" or greater plywood or wood plank
System Type C(3): All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/2" thick	1 with 4	1:1.6 ft²
ISO 95+ GL Minimum 2" thick	2 with 4	1:1.78 ft²

Note: All layers of insulation shall be simultaneously mechanically attached using the fastener density listed above. The 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.

Membrane: Firestone RubberGard EcoWhite or RubberGard EcoWhite PT EPDM membrane adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive, or Single-Ply LVOC Bonding Adhesive 1168 (except SECUROCK) at a rate of 60 sq. ft./gal.

Maximum Design Pressure: -45 psf. (See General Limitation #9)



Membrane Type: EPDM, Reinforced
Deck Type II: Wood, Insulated
Deck Description: 1⁹/₃₂" or greater plywood or wood plank
System Type D(1): Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ISO 95+ GL Minimum 1.3" thick	1 or 2 with 4	1:4 ft²

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane.

Fire Barrier: Gypsum board, minimum thickness 1/2", placed between the deck and the insulation.

Membrane: Mechanically attach any nominal 7 1/2' Reinforced RubberGard® EPDM membrane with Firestone All-Purpose or Firestone Heavy-Duty fasteners in 2" Metal Plates (or metal battens) 6" o.c. within the 7" wide side laps, or any nominal 10' Reinforced RubberGuard® EPDM membrane with Firestone All-Purpose or Heavy-Duty fasteners in metal batten only 6" o.c. with 7" side laps.

Or mechanically attach QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer Batten Strip or Metal Batten Bar and Firestone All-Purpose or Firestone Heavy-Duty fasteners along the batten strip or with 2" Metal Plates or V-Plates with Firestone All-Purpose or Firestone Heavy-Duty; fasteners shall be 6" o.c. within the QuickSeam R.M.A Strip spaced 7-1/2 ft. o.c. Any Reinforced Firestone RubberGard® EPDM membrane is adhered to each QuickSeam R.M.A. Strip.

Maximum Design Pressure: -52.5 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. 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, 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 Engineer, 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 and/or RAS 137. 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

