

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

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 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 revises NOA No. 18-0509.12 and consists of pages 1 through 43. The submitted documentation was reviewed by Hamley Pacheco, P.E.

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ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Material:	EPDM
<u>Deck Type:</u>	Recover
Maximum Design Pressure:	See Specific Assemblies

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

Product	Dimensions	Test <u>Specifications</u>	Product <u>Description</u>
FullForce EPDM	60 mil	ASTM D4637	Non-Reinforced EPDM membrane
		Type I	with a factory-applied pressure sensitive adhesive on the back side.
RubberGard MAX [®]	45, 60 & 75 mil	ASTM D4637	Polyester scrim reinforced EPDM
	45 60 0 55 1	Type II	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	Polyester scrim reinforced EPDM
		Type II	membrane with integrated 3" pre-
RubberGard Platinum [®]	90 mil	ASTM D4637	applied seam tape. Non-Reinforced EPDM membrane.
RubberGard Flathlum	90 IIII	Type I	Non-Kennoleed Li Divi memorane.
RubberGard LS-FR [®]	45 & 60 mil	ASTM D4637	Fire Retardant Non-Reinforced
RubberGard LS-FR PT [®]	60 mil	Type I ASTM D4637	EPDM membrane. Fire Retardant Non-Reinforced
RubberGard LS-FK F1	00 mm	Type I	EPDM membrane with integrated 3"
			pre-applied seam tape.
RubberGard EcoWhite [®]	60 & 90 mil	ASTM D4637	Non-Reinforced, bi-laminate, white
RubberGard EcoWhite [®] PT	60 mil	Type I ASTM D4637	on black EPDM membrane. Non-Reinforced, bi-laminate, white
		Type I	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
Sulp			details
BA-2004 T	5 gallon pail	Proprietary	Neoprene based bonding adhesive
SA-1065 Splice Adhesive	1 gallon and 5	Proprietary	Synthetic polymer based adhesive
Single-Ply LVOC Bonding	gallon pails 5 gal. pail	Proprietary	Solvent based bonding adhesive.
Adhesive	5 gai. pair	Topretary	Solvent based boliding adhesive.
Single-Ply LVOC Bonding Adhesive 1168	5 gal. pail	Proprietary	Solvent based bonding adhesive.
Addesive 1100			
Single-Ply QuickPrime	3 gal. pail	Proprietary	Solvent based primer used to clean
Primer			EPDM



Product	Dimensions	Test <u>Specifications</u>	Product <u>Description</u>
EcoWhite [®] QuickSeam Splice Tape	3" x 100' 6" x 100'	Proprietary	Tape for field splicing
Water Based Bonding Adhesive P	5 gal. pail	Proprietary	Water based bonding 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
I.S.O. Stick	5 gal. & 1500 ml	Proprietary	A dual component polyurethane adhesive.
I.S.O. Twin Pack Insulation Adhesive	1500 ml	Proprietary	A dual component polyurethane adhesive.
I.S.O. Fix II	30 lbs.	Proprietary	A single component polyurethane adhesive.



APPROVED INSULATIONS:

TABLE 2					
<u>Product Name</u>	Product Description	Manufacturer (With Current NOA)			
ISO 95+ GL and tapered	Isocyanurate Insulation	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			
RESISTA and tapered	Polyisocyanurate foam core laminated to a coated fiberglass facer	Firestone Building Products Company, LLC			
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia Pacific Gypsum LLC			
SECUROCK Gypsum-Fiber Roof Board	Rigid, gypsum-based board stock	USG Corp.			
SECUROCK Glass-Mat Roof Board	Rigid, gypsum-based board stock	USG Corp.			

APPROVED FASTENERS / ADHESIVES:

		TABLE 3		
Fastener	Product	Product		Manufacturer
<u>Number</u>	<u>Name</u>	Description	Dimensions	(With Current NOA)
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.	Structural Concrete Drive Fastener	Insulation and membrane fastener for Structural Concrete decks.	Various	Firestone Building Products Company, LLC
4.	2" Metal Plate	Membrane seam attachment plate.	2" dia	Firestone Building Products Company, LLC
5.	Firestone Polymer	Insulation and membrane fastener for gypsum decks.	Various	Firestone Building Products Company, LLC
6.	Insulation Fastening Plate	Galvalume insulation plate	3" diameter	Firestone Building Products Company, LLC
7.	V-Plate	Membrane seam attachment plate.	2¼" dia	Firestone Building Products Company, LLC
8.	Metal Batten Bar	Galvalume AZ55 batten strip	10' long, 1" wide	Firestone Building Products Company, LLC
9.	Firestone Polymer Batten Strips	Polymer, corrosion –free, batten strip	250' long, ³ ⁄ ₄ or 1" wide	Firestone Building Products Company, LLC



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EVIDENCE SUBMITTED:

Test Agency	<u>Test Identifier</u>	Description	<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
	1V1A7.AM	FM 4470	06/25/92
	1W3A4.AM	FM 4470	12/01/92
	2W6A2.AM	FM 4470	06/25/93
	2X9A8.AM	FM 4470	06/14/94
	3010822	FM 4470	07/31/02
	3011282	FM 4470	08/08/02
	3019991	FM 4470	09/20/05
	3034561	FM 4470	12/08/08
	3035017	FM 4470	04/15/09
	3036256	FM 4470	04/27/09
	3035560	FM 4470	01/11/10
	3036586	FM 4470	02/22/10
	3038442	FM 4470	11/18/10
	3042909	FM 4470	08/03/11
	3038770	FM 4470	08/04/11
	3038191	FM 4470	08/04/11
	3043994	FM 4470	02/15/12
	3041939	FM 4470	08/14/12
	3047398	FM 4470	08/15/13
	3052559	FM 4470	03/04/15
	3063586	FM 4470	08/30/18
Trinity ERD	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
PRI Construction Materials	FBP-136-02-01	Physical Properties	10/01/13
Technologies LLC	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

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

Engineer/Agency	<u>Identifier</u>	Assemblies	Date
FM Approval Deck Limitations	N/A	C(6) & C(7)	01/01/13



APPROVED ASSEMBLIES

Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete, Steel, Wood, Cementitious Wood Fiber, Gypsum
System Type A(1):	One or more layers of insulation adhered with approved; membrane adhered with approved adhesive.

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.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISOGARD HD		·
Minimum: ¹ / ₂ " thick	N/A	N/A
DensDeck, DensDeck Prime,		
SECUROCK Gypsum-Fiber Roof Board		
Minimum: 1/4" thick	N/A	N/A

Note: All layers of insulation shall be adhered using I.S.O. Twin Pack Insulation Adhesive in continuous $\frac{1}{2}$ " – $\frac{3}{4}$ " wide beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane:	Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive, or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps sealed with SA-1065 Splice Adhesive or QuickSeam Tape.
	Or
	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	 -157.5 psf. on Structural Concrete and steel. (See General Limitation #9) -105 psf. on Structural Concrete, steel and membrane attachment with Single-Ply LVOC Bonding Adhesive 1168 (See Limitation #9) -45 psf. on Gypsum, CWF or Wood (See General Limitation #9)
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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type A(2):	One or more layers of insulation adhered with approved adhesive over existing BUR asphalt; membrane adhered with approved adhesive.

One or more layers of any of the following insulations.

APPROVED

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL	, , , , , , , , , , , , , , , , , , ,	v
Minimum: 1.5 thick	N/A	N/A
Middle Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL		·
Minimum: 1.5 thick	N/A	N/A
Tapered ISO 95+ GL		
Minimum ¹ / ₂ " thick with a ¹ / ₄ " per ft. taper	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
DensDeck, DensDeck Prime, SECUROCK Gypsum-	Fiber Roof Board	·
Minimum: 1/4" thick	N/A	N/A

Note: Deck may be primed with asphaltic ASTM D41 primer prior to application of first layer of insulation. All layers of insulation shall be adhered using I.S.O. Twin Pack Insulation Adhesive in continuous $\frac{1}{2}$ " - $\frac{3}{4}$ " wide beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane:	Fully adhere RubberGard MAX, RubberGard MAX FR, RubberGard MAX PT,
	RubberGard Platinum, RubberGard LS-FR, RubberGard LS-FR PT, RubberGard
	EcoWhite or RubberGard EcoWhite PT membrane to the insulation with BA-2004
	T, Single-Ply LVOC Bonding Adhesive, or Single-Ply LVOC Bonding Adhesive
	1168 roller applied at a rate of 60 ft ² /gal. (120 ft ² /gal. to both the underside of the
	roof cover and the substrate).
	Or
	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum	-157.5 psf. (See General Limitation #9)
Design Pressure:	-105 psf. Membrane attachment with Single-Ply Bonding Adhesive 1168 (See General Limitation #9)
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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type A(3):	One or more layers of insulation adhered with approved adhesive over existing BUR asphalt; membrane adhered with approved adhesive.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional)	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
Tapered ISO 95+ GL, Tapered RESISTA		
Minimum ¹ / ₂ " thick with a ¹ / ₄ " per ft. taper	N/A	N/A
ISO 95+ GL, RESISTA		
Minimum ¹ / ₂ " thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
ISOGARD HD		·
Minimum: ¹ /2" thick	N/A	N/A

Note: Deck may be primed with asphaltic ASTM D41 primer prior to application of first layer of insulation. Note: All insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in $\frac{1}{2}$ to $\frac{3}{4}$ in. wide ribbons spaced 12 in. o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 12 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate) or Water Based Bonding Adhesive-P roller applied at a rate of 120 ft²/gal. (240 ft²/gal. to both the underside of the roof cover and the substrate).

RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps primed with QuickPrime Plus Primer and sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps are primed with QuickPrime Plus Primer and sealed with SA-1065 Splice Adhesive or QuickSeam Tape.



	Or
	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	-210 psf. Insulation attachment with I.S.O. Fix II (See General Limitation #9) -202.5 psf. Insulation attachment with I.S.O. Twin Pack Insulation Adhesive or I.S.O. Stick
	(See General Limitation #9)



Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type A(4):	One or more layers of insulation adhered with approved adhesive over existing BUR asphalt; membrane adhered with approved adhesive.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered ISO 95+ GL, Tapered RESISTA		
Minimum ¹ / ₂ " thick with a ¹ / ₄ " per ft. taper	N/A	N/A
ISO 95+ GL, RESISTA		
Minimum ¹ / ₂ " thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISOGARD HD		
Minimum: ¹ / ₂ " thick	N/A	N/A

Note: Deck may be primed with asphaltic ASTM D41 primer prior to application of first layer of insulation. Note: Top and middle layer of insulation shall be adhered with Firestone I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 6 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate) or Water Based Bonding Adhesive-P roller applied at a rate of 120 ft²/gal. (240 ft²/gal. to both the underside of the roof cover and the substrate).
 RubberGard EcoWhite and RubberGard EcoWhite PT side and end laps primed with QuickPrime Plus Primer and sealed with EcoWhite QuickSeam Tape or

with QuickPrime Plus Primer and sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps are primed with QuickPrime Plus Primer and sealed with SA-1065 Splice Adhesive or QuickSeam Tape.



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	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	 -225 psf. Membrane attachment with Single-Ply LVOC Bonding Adhesive 1168. (See General Limitation #9) -247.5 psf. Membrane attachment with all other applications. (See General Limitation #9)

Or

Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type A(5):	One or more layers of insulation adhered with approved adhesive over existing BUR asphalt; membrane adhered with approved adhesive.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered ISO 95+ GL, Tapered RESISTA		
Minimum ¹ / ₂ " thick with a ¹ / ₄ " per ft. taper	N/A	N/A
ISO 95+ GL, RESISTA		
Minimum ¹ / ₂ " thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISOGARD HD		
Minimum: ¹ / ₂ " thick	N/A	N/A

Note: Deck may be primed with asphaltic ASTM D41 primer prior to application of first layer of insulation. Note: Top and middle layer of insulation shall be adhered with Firestone I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 6 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate) or Water Based Bonding Adhesive-P roller applied at a rate of 120 ft²/gal. (240 ft²/gal. to both the underside of the roof cover and the substrate).

RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps primed with QuickPrime Plus Primer and sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps are primed with QuickPrime Plus Primer and sealed with SA-1065 Splice Adhesive or QuickSeam Tape.



	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	 -225 psf. Membrane attachment with Single-Ply LVOC Bonding Adhesive 1168. (See General Limitation #9) -247.5 psf. Membrane attachment with all other applications (See General Limitation #9)

Or

Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type A(6):	One or more layers of insulation adhered with approved adhesive over existing BUR asphalt; membrane adhered with approved adhesive.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional)	Insulation Fasteners	Fastener Density/ft ²
Tapered ISO 95+ GL, Tapered RESISTA Minimum ½" thick with a ¼" per ft. taper	(Table 3) N/A	N/A
ISO 95+ GL, RESISTA		
Minimum ¹ / ₂ " thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISOGARD HD Composite		-
Minimum: 2" thick	N/A	N/A

Note: Deck may be primed with asphaltic ASTM D41 primer prior to application of first layer of insulation. Top and middle layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in $\frac{1}{2}$ to $\frac{3}{4}$ in. wide ribbons spaced 12 in. o.c. or Firestone I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 12 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate) or Water Based Bonding Adhesive-P roller applied at a rate of 120 ft²/gal. (240 ft²/gal. to both the underside of the roof cover and the substrate).
 RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps primed with OuickPrime Plus Primer and sealed with EcoWhite OuickSeam Tape or

with QuickPrime Plus Primer and sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps are primed with QuickPrime Plus Primer and sealed with SA-1065 Splice Adhesive or QuickSeam Tape.

Or



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	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	 -202.5 psf. Insulation attachment with I.S.O. Twin Pack Adhesive (See General Limitation #9) -60 psf. Insulation attachment with I.S.O. Stick Adhesive (See General Limitation #9)



Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type A(7):	One or more layers of insulation adhered with approved adhesive over existing BUR asphalt; membrane adhered with approved adhesive.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered ISO 95+ GL, Tapered RESISTA	· · · · ·	v
Minimum ¹ / ₂ " thick with a ¹ / ₄ " per ft. taper	N/A	N/A
ISO 95+ GL, RESISTA		
Minimum ¹ / ₂ " thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISOGARD HD Composite		
Minimum: 2" thick	N/A	N/A

Note: Deck may be primed with asphaltic ASTM D41 primer prior to application of first layer of insulation. Top and middle layer of insulation shall be adhered with Firestone I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 6 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate) or Water Based Bonding Adhesive-P roller applied at a rate of 120 ft²/gal. (240 ft²/gal. to both the underside of the roof cover and the substrate).
 RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps primed

with QuickPrime Plus Primer and sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps are primed with QuickPrime Plus Primer and sealed with SA-1065 Splice Adhesive or QuickSeam Tape.



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

Maximum

Design Pressure: -187.5 psf. (See General Limitation #9)



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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type B(1):	Base layer of insulation mechanically fastened, top layer adhered with approved adhesive: membrane fully adhered.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
RESISTA		
Minimum 2" thick	2 or 3 with 6	1:4 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described above. 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.

Middle Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
RESISTA	, , , , , , , , , , , , , , , , , , ,	J
Minimum 2" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered RESISTA Minimum: ½" thick with a ¼" per ft. taper	N/A	N/A

Note: Top and middle layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in $\frac{1}{2}$ to $\frac{3}{4}$ in. wide ribbons spaced 12 in. o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 12 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive, or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps sealed with SA-1065 Splice Adhesive or QuickSeam Tape.



	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)

MIAMIIDADE COUNTY

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Or

Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type B(2):	Base layer of insulation mechanically fastened, top layer adhered with approved adhesive; membrane fully adhered.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
RESISTA Minimum 1.5" thick	2 or 3 with 6	1:2 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described above. 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.

Middle Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
RESISTA	,	U U
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered RESISTA		
Minimum: ¹ / ₂ " thick with a ¹ / ₄ " per ft. taper	N/A	N/A

Note: Top and middle layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in $\frac{1}{2}$ to $\frac{3}{4}$ in. wide ribbons spaced 12 in. o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 12 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Min. 0.060" Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive, or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps sealed with SA-1065 Splice Adhesive or QuickSeam Tape.



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	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)

Or



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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type B(3):	Base layer of insulation mechanically fastened, top layer adhered with approved adhesive; membrane fully adhered.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
RESISTA Minimum 1.5" thick	2 or 3 with 6	1:2.7 ft ²
Winning 1.5 thick	2 01 5 With 0	1.2.7 10

Note: Base layer shall be mechanically attached with fasteners and density described above. 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.

Middle Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
RESISTA	· · · · · ·	v
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered RESISTA		·
Minimum: $\frac{1}{2}$ " thick with a $\frac{1}{4}$ " per ft. taper	N/A	N/A

Note: Top and middle layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in $\frac{1}{2}$ to $\frac{3}{4}$ in. wide ribbons spaced 12 in. o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 12 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Min. 0.045" Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive, or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps sealed with SA-1065 Splice Adhesive or QuickSeam Tape.



	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)

Or



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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type B(4):	Base layer of insulation mechanically fastened, top layer adhered with approved adhesive; membrane fully adhered.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
DensDeck, DensDeck Prime Minimum 1/2" thick	2 or 3 with 6	1:4 ft ²
SECUROCK Gypsum-Fiber Roof Board, SECUROCK Minimum 1/4" thick	Glass-Mat Fiber Roof Board 2 or 3 with 6	1:4 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described above. 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.

Middle Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
RESISTA	, , , , , , , , , , , , , , , , , , ,	v
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered RESISTA Minimum: ½" thick with a ¼" per ft. taper	N/A	N/A

Note: Top and middle layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in $\frac{1}{2}$ to $\frac{3}{4}$ in. wide ribbons spaced 12 in. o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 12 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Min. 0.045" Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive, or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps sealed with SA-1065 Splice Adhesive or QuickSeam Tape.



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	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)



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Or

Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type B(5):	Base layer of insulation mechanically fastened, top layer adhered with approved adhesive; membrane fully adhered.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
RESISTA		
Minimum 1.5" thick	2 or 3 with 6	1: 1 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described above. 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.

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
RESISTA		·
Minimum 1.5" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in $\frac{1}{2}$ to $\frac{3}{4}$ in. wide ribbons spaced 12 in. o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 12 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane:Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX,
RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite,
RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully
adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive or
Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal.
(120 ft²/gal. to both the underside of the roof cover and the substrate) or Water
Based Bonding Adhesive-P roller applied at a rate of 120 ft²/gal. (240 ft²/gal. to
both the underside of the roof cover and the substrate).

RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps primed with QuickPrime Plus Primer and sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps are primed with QuickPrime Plus and sealed with SA-1065 Splice Adhesive or QuickSeam Tape.



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	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	-120 psf. (See General Limitation #7)



Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type B(6):	Base layer of insulation mechanically fastened, top layer adhered with approved adhesive; membrane fully adhered.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
ISO 95+ GL		
Minimum 2-1/4" thick	2 or 3 with 6	1:4 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described above. 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.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Densitv/ft ²
ISO 95+ GL	(140100)	2 0115109,10
Minimum 1-1/2" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in $\frac{1}{2}$ to $\frac{3}{4}$ in. wide ribbons spaced 12 in. o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 12 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane:Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX,
RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite,
RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully
adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive or
Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal.
(120 ft²/gal. to both the underside of the roof cover and the substrate) or Water
Based Bonding Adhesive-P roller applied at a rate of 120 ft²/gal. (240 ft²/gal. to
both the underside of the roof cover and the substrate).

RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps are sealed with SA-1065 Splice Adhesive or QuickSeam Tape.



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	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)

Or



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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type B(7):	Base layer of insulation mechanically fastened, top layer adhered with approved adhesive; membrane fully adhered.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
ISO 95+ GL		
Minimum 2" thick	2 or 3 with 6	1:1ft ²

Note: Base layer shall be mechanically attached with fasteners and density described above. 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.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Densitv/ft ²
ISOGARD HD	(Table 3)	Density/It
Minimum 1/2" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with Firestone I.S.O. Twin Pack Insulation Adhesive applied in $\frac{1}{2}$ to $\frac{3}{4}$ in. wide ribbons spaced 12 in. o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous $\frac{3}{4}$ " – 1" wide ribbons spaced 12 o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane:Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX,
RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite,
RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully
adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive,
Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal.
(120 ft²/gal. to both the underside of the roof cover and the substrate).
RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed
with EcoWhite Splice Adhesive or EcoWhite QuickSeam Tape.All other
RubberGard side and end laps are sealed with SA-1065 Splice Adhesive or
QuickSeam Tape.

Or

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

Maximum Design Pressure:

-90 psf. (See General Limitation #7)



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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type C(1):	All layers of insulation simultaneously attached; membrane fully adhered.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL		-
Minimum 1.25" thick	2 or 3 with 6	1:2.7 ft ²

Note: All layers of insulation shall be 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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Fully adhere RubberGard MAX, RubberGard MAX FR, RubberGard MAX PT, RubberGard Platinum, RubberGard LS-FR, RubberGard LS-FR PT, RubberGard EcoWhite or RubberGard EcoWhite PT membrane to the insulation with BA-2004 T or Single-Ply LVOC Bonding Adhesive, or Single-Ply LVOC Bonding Adhesive 1168 at a rate of 45-60 sq. ft./gal. (coverage area is for adhesive application to both mating surfaces).

Or

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

Maximum Design Pressure:

-45 psf. (See General Limitation #9)



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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	18-22 ga., 33 ksi Steel or Structural Concrete
System Type C(2):	Insulation attached; membrane fully adhered.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
RESISTA Minimum 1" thick	1 or 2 with 6 (steel)	1:2 ft ²
	2 or 3 with 6 (Structural Concrete)	

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 LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate) or Water Based Bonding Adhesive-P roller applied at a rate of 120 ft²/gal. (240 ft²/gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps are sealed with SA-1065 Splice Adhesive or QuickSeam Tape. Or FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)



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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type C(3):	Insulation attached; membrane fully adhered.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
RESISTA		
Minimum 2" thick	2 or 3 with 6	1:1 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.

Membrane:	Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite Splice Adhesive or EcoWhite QuickSeam Tape. All other RubberGard side and end laps are sealed with SA-1065 Splice Adhesive or QuickSeam Tape.
	Or
	FullForce EPDM membrane, self-adhered. Minimum 3" roof cover side and end laps are sealed with QuickPrime Plus, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer or factory applied pressure sensitive adhesive.
Maximum Design	
Pressure:	-150 psf. Membrane attachment with BA-2004 T, Single-Ply LVOC Bonding Adhesive or self-adhered (See General Limitation #7)

-142.5 psf. Membrane attachment with Single-Ply LVOC Bonding Adhesive 1168 (See General Limitation #7)



Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type C(4):	Insulation attached; membrane fully adhered.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
RESISTA Minimum 2" thick	2 or 3 with 6	1:1.33 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.

Membrane:	Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft ² /gal. (120 ft ² /gal. to both the underside of the roof cover and the substrate) or Water Based Bonding Adhesive-P roller applied at a rate of 120 ft ² /gal. (240 ft ² /gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps primed with QuickPrime Plus Primer and sealed with EcoWhite QuickSeam Tape or EcoWhite EPDM Adhesive. All other RubberGard side and end laps are primed with QuickPrime Plus Primer and sealed with SA-1065 Splice Adhesive or QuickSeam Tape.
	Or

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

Maximum Design Pressure: -105 psf. (See General Limitation #7)



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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	18-22 ga., 33 ksi
System Type C(5):	Insulation attached; membrane fully adhered.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISOGARD HD	(Table 5)	Density/It
Minimum 1/2" thick	1 or 2 with 6	1:2.7 ft ²
(total insulation not to exceed 1" max.)		

Note: Insulation shall be simultaneously fastened per the above 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.

Membrane:	Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft ² /gal. (120 ft ² /gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite Splice Adhesive or EcoWhite QuickSeam Tape. All other RubberGard side and end laps are sealed with SA-1065 Splice Adhesive or QuickSeam Tape.
	Or

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

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

Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	 Min. 22 ga., Type B, Grade 33 steel secured to structural supports spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6" o.c. (one fastener installed at each bearing attachment point) and Traxx 1 fasteners 24" o.c. at the side laps or Structural Concrete. This Tested Assembly has been analyzed for allowable deck stress. See evidence submitted table.

System Type C(6): Insulation 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.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISO 95+ GL 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 (Total insulation for steel deck not to exceed 1" max.) ISOGARD HD	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Minimum 1/2" thick	1 or 2 with 6 (steel) 2 or 3 with 6 (Structural	1:1.33 ft ²
	Concrete)	

Membrane: Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T Bonding Adhesive, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate) or Water Based Bonding Adhesive-P roller applied at a rate of 120 ft²/gal. (240 ft²/gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite Splice Adhesive or EcoWhite QuickSeam Tape. All other RubberGard side and end laps are sealed with SA-1065 Splice Adhesive or QuickSeam Tape.



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

Maximum Design Pressure:

-60 psf. (See General Limitation #7)



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Membrane Type:	EPDM, Reinforced, Non-reinforced	
Deck Type 7I:	Recover, Insulated	
Deck Description:	Min. 22 ga., Type B, Grade 33 steel secured to structural supports spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6" o.c. (one fastener installed at each bearing attachment point) and Traxx 1 fasteners 24" o.c. at the side laps or Structural Concrete.	
This Tested Assembly has been analyzed for allowable deck stress. See evidence submitted table.		
System Type C(7):	Insulation attached; membrane fully adhered.	

Insulation Layer (Total insulation for steel deck not to exceed 1" max.)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISOGARD HD Composite		
Minimum 1" thick	1 or 2 with 6 (steel)	1:1.33 ft ²
	2 or 3 with 6 (Structural	
	Concrete)	

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 LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive or Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft²/gal. (120 ft²/gal. to both the underside of the roof cover and the substrate) or Water Based Bonding Adhesive-P roller applied at a rate of 120 ft²/gal. (240 ft²/gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite Splice Adhesive or EcoWhite QuickSeam Tape. All other RubberGard side and end laps are sealed with SA-1065 Splice Adhesive or QuickSeam Tape. Or
Maximum Design	LVOC Primer or factory applied pressure sensitive adhesive.
Pressure:	-60 psf. (See General Limitation #7)



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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type C(8):	Insulation attached; membrane fully adhered.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISOGARD HD Composite Minimum 1.5" thick	2 or 3 with 6	1:1.33 ft ²
Winning 1.5 Click		1.1.55 It

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 LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite, RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully adhered to the insulation with BA-2004 T, Single-Ply LVOC Bonding Adhesive, Single-Ply LVOC Bonding Adhesive 1168 roller applied at a rate of 60 ft ² /gal. (120 ft ² /gal. to both the underside of the roof cover and the substrate). RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps sealed with EcoWhite Splice Adhesive or EcoWhite QuickSeam Tape. All other RubberGard side and end laps are sealed with SA-1065 Splice Adhesive or

Or

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

Maximum Design Pressure: -112.5 psf. (See General Limitation #7)



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Membrane Type:	EPDM, Reinforced, Non-reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type C(9):	Insulation attached; membrane fully adhered.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ISOGARD HD Composite		
Minimum 2" thick	2 or 3 with 6	1:1.33 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.

Membrane:	Firestone RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard EcoWhite,
	RubberGard EcoWhite PT or RubberGard Platinum EPDM membrane fully
	adhered to the insulation with BA-2004 T roller applied at a rate of 60 ft ² /gal. (120
	ft^2/gal to both the underside of the roof cover and the substrate).
	RubberGard EcoWhite and RubberGard EcoWhite PT Side and end laps primed
	with QuickPrime Plus Primer and sealed with EcoWhite QuickSeam Tape or
	EcoWhite EPDM Adhesive. All other RubberGard side and end laps are primed
	with QuickPrime Plus Primer and sealed with SA-1065 Splice Adhesive or
	QuickSeam Tape.
	-

Or

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

Maximum Design Pressure: -120 psf. (See General Limitation #7)

Membrane Type:	EPDM, Reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type D(1):	Membrane mechanically attached over preliminary fastened insulation.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
ISO 95+ GL, RESISTA		
Minimum 1.5" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See membrane 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.

Membrane:	Mechanically attach any 7 1/2' Reinforced Firestone RubberGard [®] EPDM membrane with Firestone Heavy-Duty fasteners in V-Plates or 2" Metal Plates (or metal battens) 6" o.c. within the 7" wide side laps, or any nominal 10' Reinforced Firestone RubberGard [®] EPDM membrane with Heavy-Duty fasteners in Metal Batten Bar only 6" o.c. with 7" side laps.
	Or
Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide section with Firestone Polymer Batten Strip or Metal Batten Bar and Fire Heavy-Duty fasteners along the batten strip or with 2" Metal Plates or V- with Firestone Heavy-Duty fasteners; 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. S	
Maximum Design	

Pressure: -52.5 psf

-52.5 psf. (See General Limitation #9.)



Membrane Type:	EPDM, Reinforced
Deck Type 7I:	Recover, Insulated
Deck Description:	Structural Concrete
System Type D(2):	Membrane mechanically attached over preliminary fastened insulation.

Insulation Layer	Insulation Fasteners	Fastener
ISO 95+ GL, RESISTA, ISOGARD HD	(Table 3)	Density/ft ²
Minimum 1.5" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See membrane 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.

Membrane:	Mechanically attach Firestone RubberGard MAX [®] or RubberGard MAX FR [®] membrane with Firestone Heavy-Duty fasteners in V-Plates or 2" Metal Plates 6" o.c. within the 7" wide side laps in rows 7 feet o.c. The roof cover laps are adhered by priming both lap surfaces with Single-Ply QuickPrime Primer or Single-Ply LVOC Primer then applying 7" wide QuickSeam Tape.
	Or
	Mechanically attach Firestone QuickSeam R.M.A. Strip along its 4" wide center section with Firestone Polymer Batten Strip or Metal Batten Bar and Firestone Heavy-Duty fasteners along the Firestone Polymer Batten Strip or with 2" Metal Plates or V-Plates with Firestone Heavy-Duty fasteners; fasteners shall be 6" o.c. within the QuickSeam R.M.A Strip spaced 7 ft. o.c. RubberGard MAX or RubberGard MAX FR membrane is adhered to each QuickSeam R.M.A. Strip.
Maximum Design Pressure:	-52.5 psf. (See General Limitation #7)



RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

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



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