MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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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 Lightweight Concrete Decks.

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

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

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

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 18-0509.08 and consists of pages 1 through 16.
The submitted documentation was reviewed by Hamley Pacheco, P.E.

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply
Material: EPDM
Deck Type: Lightweight Concrete
Maximum Design Pressure: -217.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specifications	Product Description
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.
SA-1065 Splice Adhesive	1 gallon and 5 gallon pails	Proprietary	Synthetic polymer based adhesive
EcoWhite QuickSeam Splice Tape	3" x 100' 6" x 100'	Proprietary	Tape for field splicing

Product	Dimensions	Test Specifications	Product Description
I.S.O. Twin Pack Insulation Adhesive	1500 ml	Proprietary	A dual component polyurethane adhesive.
I.S.O. Stick	5 gal & 1500 ml	Proprietary	A dual component polyurethane 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

Product Name	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	Silicon treated gypsum	Georgia Pacific Gypsum LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum fiber roof board	USG Corp.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
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
	3014031	FM 4470	07/22/02
	3014692	FM 4470	08/05/03
	3028164	FM 4470	11/02/07
	3031293	FM 4470	11/29/07
	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
	3046870	FM 4470	03/22/13
	3047398	FM 4470	08/15/13
	3052559	FM 4470	03/04/15
	3063586	FM 4470	08/30/18
PRI Construction Materials Technologies LLC	FBP-136-02-01	Physical Properties	10/01/13
	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	02764.09.05-R1	FM 4470/TAS 114	12/10/07
	02762.03.05-R1	FM 4470/TAS 114	12/10/07
	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 4I: Lightweight Concrete, Insulated

Deck Description: Mininimum ⅛" slurry coat of Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast over concrete deck with minimum 1" holey board set into wet lightweight concrete. Minimum 2" Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast as a topcoat over holey board. After curing to support foot traffic, Celcore PVA Curing Compound is applied to the topcoat at a rate of 300 ft^2/gal.

System Type A(1): One or more layers of insulation adhered with approved adhesive; 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.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL Minimum 1" thick	**N/A**	**N/A**
Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL Tapered Minimum ½" thick	**N/A**	**N/A**

Note: All insulation layers shall be adhered I.S.O. Twin Pack Insulation Adhesive applied in ½" to ¾" 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.

Membrane: RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard Platinum EPDM, RubberGard EcoWhite or RubberGard EcoWhite PT membrane fully 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 or Water Base Bonding Adhesive P at rate of 120 sq. ft./gal. Minimum 3" RubberGard EcoWhite and RubberGard EcoWhite PT roof cover side and end laps are sealed with EcoWhite Quick Seam Splice Tape. For all other membranes, the minimum 3" roof cover 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: -217.5 psf. (See General Limitation #9)
-60 psf. Membrane attachment with Water Based Bonding Adheisve P (See General Limitation #9)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Mininimum ⅛" slurry coat of Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast over concrete deck with minimum 1" holey board set into wet lightweight concrete. Minimum 2" Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast as a topcoat over holey board. After curing to support foot traffic, Celcore PVA Curing Compound is applied to the topcoat at a rate of 300 ft^2/gal.

System Type A(2): One or more layers of insulation adhered with approved adhesive; 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.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
RESISTA		
Minimum 1" thick (Min. 1½" thick with I.S.O. Stick)	**N/A**	**N/A**
Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
RESISTA Tapered		
Minimum ½" thick	**N/A**	**N/A**

Note: All insulation layers shall be adhered I.S.O. Twin Pack Insulation Adhesive applied in ½" to ¾" ribbons or I.S.O. Stick applied in ¾" to 1" 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.

Membrane: RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard Platinum EPDM, RubberGard EcoWhite or RubberGard EcoWhite PT membrane fully 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 or Water Base Bonding Adhesive P at rate of 120 sq. ft./gal. Minimum 3" RubberGard EcoWhite and RubberGard EcoWhite PT roof cover side and end laps are sealed with EcoWhite Quick Seam Splice Tape. For all other membranes, the minimum 3" roof cover 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: -217.5 psf. Insulation attachment with I.S.O. Twin Pack Insulation Adhesive (See General Limitation #9)
-187.5 psf. Insulation attachment with I.S.O. Stick (See General Limitation #9)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Mininimum ⅛" slurry coat of Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast over concrete deck with minimum 1" holey board set into wet lightweight concrete. Minimum 2" Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast as a topcoat over holey board. After curing to support foot traffic, Celcore PVA Curing Compound is applied to the topcoat at a rate of 300 ft^2/gal.

System Type A(3): One or more layers of insulation adhered with approved adhesive; 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.

One or more layers of the following insulations:

Base Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL Tapered, RESISTA Tapered Minimum ½" 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: All insulation layers shall be adhered I.S.O. Twin Pack Insulation Adhesive applied in ½" to ¾" ribbons or I.S.O. Stick applied in ¾" to 1" 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.

Membrane: RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard Platinum EPDM, RubberGard EcoWhite or RubberGard EcoWhite PT membrane fully 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 or Water Base Bonding Adhesive P at rate of 120 sq. ft./gal. Minimum 3" RubberGard EcoWhite and RubberGard EcoWhite PT roof cover side and end laps are sealed with EcoWhite Quick Seam Splice Tape. For all other membranes, the minimum 3" roof cover 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: -217.5 psf. Insulation attachment with I.S.O. Twin Pack Insulation Adhesive (See General Limitation #9)
-187.5 psf. Insulation attachment with I.S.O. Stick (See General Limitation #9)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Mininimum ⅛" slurry coat of Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast over concrete deck with minimum 1" holey board set into wet lightweight concrete. Minimum 2" Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast as a topcoat over holey board. After curing to support foot traffic, Celcore PVA Curing Compound is applied to the topcoat at a rate of 300 ft^2/gal.

System Type A(4): One or more layers of insulation adhered with approved adhesive; 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.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL, RESISTA Minimum 1½" thick	**N/A**	**N/A**
Middle Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL Tapered, RESISTA Tapered Minimum ½" thick	**N/A**	**N/A**
Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISOGARD HD Minimum ½" thick	**N/A**	**N/A**

Note: All insulation layers shall be adhered I.S.O. Twin Pack Insulation Adhesive applied in ½" to ¾" ribbons or I.S.O. Stick applied in ¾" to 1" 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.

Membrane: RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard Platinum EPDM, RubberGard EcoWhite or RubberGard EcoWhite PT membrane fully 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 or Water Base Bonding Adhesive P at rate of 120 sq. ft./gal. Minimum 3" RubberGard EcoWhite and RubberGard EcoWhite PT roof cover side and end laps are sealed with EcoWhite Quick Seam Splice Tape. For all other membranes, the minimum 3" roof cover 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:	-217.5 psf. Insulation attachment with I.S.O. Twin Pack Insulation Adhesive (See General Limitation #9) -187.5 psf. Insulation attachment with I.S.O. Stick (See General Limitation #9)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Mininimum ⅛" slurry coat of Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast over concrete deck with minimum 1" holey board set into wet lightweight concrete. Minimum 2" Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast as a topcoat over holey board. After curing to support foot traffic, Celcore PVA Curing Compound is applied to the topcoat at a rate of 300 ft^2/gal.

System Type A(5): One or more layers of insulation adhered with approved adhesive; 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.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL, RESISTA Minimum 1½" thick	**N/A**	**N/A**
Middle Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL Tapered, RESISTA Tapered Minimum ½" thick	**N/A**	**N/A**
Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	**N/A**	**N/A**

Note: All insulation layers shall be adhered I.S.O. Twin Pack Insulation Adhesive applied in ½" to ¾" ribbons or I.S.O. Stick applied in ¾" to 1" 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.

Membrane: RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard Platinum EPDM, RubberGard EcoWhite or RubberGard EcoWhite PT membrane fully 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. Minimum 3" RubberGard EcoWhite and RubberGard EcoWhite PT roof cover side and end laps are sealed with EcoWhite Quick Seam Splice Tape. For all other membranes, the minimum 3" roof cover 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:	-217.5 psf. Insulation attachment with I.S.O. Twin Pack Insulation Adhesive (See General Limitation #9) -187.5 psf. Insulation attachment with I.S.O. Stick (See General Limitation #9)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Mininimum ⅛" slurry coat of Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast over concrete deck with minimum 1" holey board set into wet lightweight concrete. Minimum 2" Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast as a topcoat over holey board. After curing to support foot traffic, Celcore PVA Curing Compound is applied to the topcoat at a rate of 300 ft^2/gal.

System Type A(6): One or more layers of insulation adhered with approved adhesive; 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.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL, RESISTA Minimum 1" thick (Min. 1½" thick with I.S.O. Stick)	**N/A**	**N/A**
Middle Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL Tapered, RESISTA Tapered Minimum ½" thick	**N/A**	**N/A**
Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Plywood Minimum $^{19}/_{32}$" thick	**N/A**	**N/A**

Note: All insulation layers shall be adhered I.S.O. Twin Pack Insulation Adhesive applied in ½" to ¾" ribbons or I.S.O. Stick applied in ¾" to 1" 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.

Membrane: RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard Platinum EPDM, RubberGard EcoWhite or RubberGard EcoWhite PT membrane fully 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 or Water Base Bonding Adhesive P at rate of 120 sq. ft./gal. Minimum 3" RubberGard EcoWhite and RubberGard EcoWhite PT roof cover side and end laps are sealed with EcoWhite Quick Seam Splice Tape. For all other membranes, the minimum 3" roof cover 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:	-127.5 psf. Membrane attachment with BA 2004 T, Single-Ply LVOC Adhesive or self-adhered (See General Limitation #9) -142.5 psf. Membrane attachment with Single-Ply LVOC Adhesive 1168 (See General Limitation #9) -67.5 psf. Membrane attachment with Water Based Bonding Adhesive P (See General Limitation #9)

Membrane Type: EPDM, Reinforced, Non-reinforced

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Mininimum ⅛" slurry coat of Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast over concrete deck with minimum 1" holey board set into wet lightweight concrete. Minimum 2" Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture (min. 360 psi and wet cast density = 42 lb/ft^3) cast as a topcoat over holey board. After curing to support foot traffic, Celcore PVA Curing Compound is applied to the topcoat at a rate of 300 ft^2/gal.

System Type A(7): One or more layers of insulation adhered with approved adhesive; 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.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL Minimum 1" thick	**N/A**	**N/A**
Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ISO 95+ GL Tapered Minimum ½" thick	**N/A**	**N/A**

Note: All insulation layers shall be adhered I.S.O. Stick applied in ¾" to 1" 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.

Membrane: RubberGard LS-FR, RubberGard LS-FR PT, RubberGard MAX, RubberGard MAX PT, RubberGard MAX FR, RubberGard Platinum EPDM, RubberGard EcoWhite, or RubberGard EcoWhite PT membrane fully 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 or Water Base Bonding Adhesive P at rate of 120 sq. ft./gal. Minimum 3" RubberGard EcoWhite and RubberGard EcoWhite PT roof cover side and end laps are sealed with EcoWhite Quick Seam Splice Tape. For all other membranes, the minimum 3" roof cover 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: -187.5 psf. (See General Limitation #9)
-60 psf. Membrane attachment with Water Based Bonding Adheisve P (See General Limitation #9)

LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.

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