



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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NOTICE OF ACCEPTANCE (NOA)

Sika Sarnafil, A Division of Sika Corp.
100 Dan Road
Canton, MA 02021

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: Sika Sarnafil PVC Single Ply Roofing over Recover Deck

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#13-0311.05 and consists of pages 1 through 45.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 13-1008.16
Expiration Date: 05/16/17
Approval Date: 04/03/14
Page 1 of 45

ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Single Ply
<u>Material:</u>	PVC
<u>Deck Type:</u>	Recover
<u>Maximum Design Pressure:</u>	See Specific Assemblies

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
G410 Felt	Various	ASTM D 4434	Fiberglass reinforced PVC roofing membrane with a non-woven felt backing.
G459	Various	ASTM D 4434	Fiberglass reinforced PVC Alloy asphalt compatible flashing membrane.
S327	Various	ASTM D 4434	Polyester reinforced PVC roofing membrane.
S327 Felt	Various	ASTM D 4434	Polyester reinforced PVC roofing membrane with a non-woven felt backing.
Sarnatape	Various	Proprietary	Air flow barrier tape
Sarnacol 2170	5 gallons	Proprietary	Solvent based bonding adhesive.
Sarnacol 2121	5 gallons	Proprietary	Water based bonding adhesive.
Sarnacol 2163		Proprietary	Insulation adhesive.
Sarnatred	3.25' x 32.8'	Proprietary	PVC walkway protection sheet.
Sarnavap-10	20' x 100'	Proprietary	Polyethylene air/vapor barrier.
SarnaWalkways	Various	Proprietary	PVC walkway protection sheet.
Sarnastack	Various	Proprietary	Prefabricated cone flashing.
Sarnaclad	Various	Proprietary	Heat weldable PVC/galvanized steel flashing



APPROVED INSULATIONS:

TABLE 2
Product
Description

Product	Product Description	Manufacturer (With Current NOA)
Sarnatherm	Isocyanurate Insulation	Sika Sarnafil, A Division of Sika Corp.
Sarnatherm 25 PSI	Polyisocyanurate insulation board.	Sika Sarnafil, A Division of Sika Corp.
Sarnatherm (a)	Isocyanurate Insulation	Sika Sarnafil, A Division of Sika Corp.
EPS	Type IX Expanded polystyrene with a minimum density of 1.8 pcf	Generic
XPS	Type IV Extruded polystyrene with a minimum density of 1.6 pcf	Generic
High Density Wood Fiberboard	Wood fiber insulation	Generic
Perlite Insulation Board	Perlite Insulation	Generic
Type X Gypsum	Gypsum Wallboard	Generic
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia Pacific Gypsum LLC
H-Shield	Isocyanurate Insulation	Hunter Panels, LLC
ENRGY 3, JM ISO 3	Isocyanurate Insulation	Johns Manville Corp.
ENRGY 3 Plus	Isocyanurate Insulation with wood fiberboard facer	Johns Manville Corp.
ENRGY 3 25 PSI	Isocyanurate Insulation	Johns Manville Corp.
ACFoam-II	Isocyanurate Insulation	Atlas Roofing Corp.
ACFoam-III	Isocyanurate Insulation	Atlas Roofing Corp.
ACFoam Composite	Isocyanurate Insulation with perlite facer	Atlas Roofing Corp.
ACFoam Supreme	Isocyanurate Insulation	Atlas Roofing Corp.
Multi-Max-3, Multi-Max FA-3	Isocyanurate Insulation	Rmax Operating, LLC
Thermarroof Composite-3	Isocyanurate Insulation with perlite facer	Rmax Operating, LLC
Thermarroof-3	Isocyanurate Insulation	Rmax Operating, LLC
ISO 95+ GL	Isocyanurate Insulation	Firestone Building Products Company, LLC



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Dekfast 12, 14 & 15 HS	Insulation fastener for wood, steel and concrete decks		SFS Intec, Inc.
2.	Dekfast Galvalume Steel Hex	Galvalume hex stress plate.	2 7/8" x 3 1/4"	SFS Intec, Inc.
3.	Dekfast Dekflat Round Plastic Lock Plate	Polypropylene locking plate.	3" x 3 1/4"	SFS Intec, Inc.
4.	#12 Standard Roofgrip, #14 Roofgrip & #15 Roofgrip	Insulation fastener for wood, steel and concrete.		OMG, Inc.
5.	AccuTrac Hextra	Insulation fastener for wood, steel and concrete		OMG, Inc.
6.	ASAP Hex Head Pre-Assembled System	Pre-assembled Insulation fastener and plate		OMG, Inc.
7.	OMG 3" Galvalume Steel Plate	Galvalume stress plate.	3" round	OMG, Inc.
8.	AccuTrac Plate	Galvalume stress plate.	3" square	OMG, Inc.
9.	OMG Plastic Plate	Polypropylene round plate	3" round	OMG, Inc.
10.	ASAP RoofGrip Pre-Assembled System	Pre-assembled Insulation fastener and plate	Various	OMG, Inc.
11.	OMG G-2	3.5" round galvalume AZ55 steel plate	3.5" round	OMG, Inc.
12.	3 in. Round Metal Plate	3" round galvalume AZ50 steel plate	3" round	OMG, Inc.
13.	OMG Super XHD	Insulation and membrane fastener	Various	OMG, Inc.
14.	OMG Heavy Duty	Insulation and membrane fastener	Various	OMG, Inc.
15.	CD-10	Carbon steel fastener for concrete decks	Various	OMG, Inc.
16.	Sarnafastener	Insulation fastener for various decks	Various	Sika Sarnafil, A Division of Sika Corp.
17.	Sarnaplate	3" square galvalume AZ50 steel plate	3" square	Sika Sarnafil, A Division of Sika Corp.
18.	OMG 2" Barbed Plate	Galvalume steel plate	2" round	OMG, Inc.
19.	Dekfast System ES #12 Plastic	Pre-assembled Insulation fastener and plate	Various	SFS Intec, Inc.
20.	Dekfast Isofast IF/IG-C-82X40	Galvalume steel plate	1.5" x 3.2"	SFS Intec, Inc.



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
21.	Sarnarail Polymer Batten Strip	Polymer batten bar	0.75" x 250'	Sika Sarnafil, A Division of Sika Corp.
22.	Sarnafastener-XP	Membrane and insulation fastener.	Various	Sika Sarnafil, A Division of Sika Corp.
23.	Sarnafil MAXLoad, Sarnafastener MAXLoad	Membrane and insulation fastener.	Various	Sika Sarnafil, A Division of Sika Corp.
24.	Sarnadisc XPN	Membrane and insulation fastener.	1.5" x 3.75"	Sika Sarnafil, A Division of Sika Corp.
25.	RhinoBond Insulation Plate	Membrane fastening plate	Various	OMG, Inc.
26.	OMG Purlin	Membrane and insulation fastener	Various	OMG, Inc.
27.	Sarnabar	Galvanized or stainless steel membrane fastening bar.	Various	Sika Sarnafil, A Division of Sika Corp.
28.	Sarnadisc MAXLoad Plate	AZ50 galvalume coated steel plate	3.5" Round	Sika Sarnafil, A Division of Sika Corp.
29.	3 in. Ribbed Galvalume Plate	Round Galvalume plated steel stress plate	3" Round	OMG, Inc.
30.	#15 Roofgrip Large Head	Carbon Steel Fastener	Various	OMG, Inc.



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Celotex Technical Center	MTS Job No. 258215	TAS 114	09/09/97
Factory Mutual Research Corporation	0X3A3.AM	FM 4470	01/31/94
	0P6A6.AM	FM 4470	03/03/94
	2X2A5.AM	FM 4470	01/31/94
	0B9A0.AM	FM 4470	10/22/96
	1Z5A6.AM	FM 4470	07/18/97
	4B3A2.AM	FM 4470	06/19/97
	1B7A5.AM	FM 4470	02/23/98
	3001580	FM 4470	11/16/98
	3003337	FM 4470	06/11/99
	3012964	FM 4470	06/11/02
	3015643	FM 4470	12/06/02
	3016201	FM 4470	01/28/03
	3006785	FM 4470	05/06/04
	3017292	FM 4470	09/03/04
	3024229	FM 4470	11/16/05
	3030053	FM 4470	09/12/07
	3028309	FM 4470	03/30/07
	3029404	FM 4470	09/09/08
	3014751	FM 4470	08/27/03
	3014692	FM 4470	08/05/03
	3012321	FM 4470	07/29/02
	3018579	FM 4450	10/09/03
	3001396	FM 4470	05/28/99
3008869	FM 4470	03/19/01	
Underwriters Laboratories, Inc.	R8992	UL 790	05/15/13
Trinity ERD	S44790.06.13	ASTM D4434	06/05/13
	S42480.08.12	Physical Properties	08/20/12
	S44790.08.13	ASTM D4434	08/26/13

APPROVED ASSEMBLIES

Membrane Type:	Single Ply, PVC
Deck Type 7I:	Recover, Insulated
Deck Description:	Concrete/lightweight concrete/cementitious wood fiber/wood/steel
System Type A(1):	One or more layers of insulation fully adhered with approved asphalt, membrane 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.

Vapor Retarder (Optional): An FM approved vapor retarder approved for use with hot asphalt may be applied to the deck or base insulation layer

Fire Barrier (Optional): Minimum 1/4" Type X Gypsum or DensDeck

One or more layers of any of the following insulations:

<u>Insulation Layer:</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ACFoam-III, ACFoam Composite (bottom layer only), ACFoam Supreme, H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI (bottom layer only) any of the above tapered Minimum 1.3" thick	N/A	N/A
ENRGY 3, ISO 95+ GL, ENRGY 3 Plus, ENRGY 3 25 PSI, H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI Minimum 1.4" thick or tapered	N/A	N/A
DensDeck, DensDeck Prime Minimum 1/4" thick	N/A	N/A
Multi-Max FA-3, Therमारoof-3 Minimum 1.25" thick or tapered	N/A	N/A
Approved High Density Wood Fiberboard Minimum 1" thick	N/A	N/A
Approved Perlite Insulation Board (base layer only) Minimum 3/4" thick	N/A	N/A

Note: Existing roof shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.



Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 applied at 1.25 gal./sq. to the substrate and 0.5 gal./sq. to the back of the Membrane, or Sarnacol 2121 applied to the substrate only at 1.5 to 2.5 gal./sq. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

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



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Steel / concrete / cementitious wood fiber / lightweight concrete / gypsum / wood
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.

Vapor Retarder (Optional): FM approved vapor retarder approved for use with hot asphalt may be applied to the deck or base insulation layer.

Fire Barrier (Optional): Minimum 1/4" Type X Gypsum or DensDeck.

One or more layers of any of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ACFoam-III, ISO 95+ GL, ENRGY 3, Sarnatherm (a), Sarnatherm-25 PSI Maximum 1" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 5/8" thick	N/A	N/A

Note: Insulation shall be adhered to the deck in full coating of OlyBond Adhesive Fastener at a rate of 1 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate



Membrane:

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With Polyisocyanurate Insulation Board) Sarnafil S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or with Sarnacol 2170 applied at 1.25 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With DensDeck or DensDeck Prime) Sarnafil S327 adhered with Sarnacol 2170 adhesive applied at 1.25 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressures:

-45 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Cementitious wood fiber / Gypsum
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.

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, H-Shield, ISO 95+ GL, ENRGY 3, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI Minimum 1” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 0.25” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum 0.25” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in full coating of OlyBond Adhesive Fastener at a rate of 1 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4” x 1/4” notched squeegee or Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld

Or

Sarnafil S327 adhered with Sarnacol 2170 applied at 1.25gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

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



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Gypsum
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.

Vapor Retarders (Optional): Any UL or FM approved asphaltic vapor retarder may be installed over the deck or the base layer of insulation

One or more layers of the following insulations:

<u>Base Insulation Layer (Optional):</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ACFoam-III, H-Shield, ISO 95+ GL, ENRGY 3, Multi-Max-3, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI Minimum 1.5” thick or tapered	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum 0.25” thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum 0.5” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in 1/2” to 3/4” wide beads 12” o.c. of Millennium One Step Foamable Adhesive or Sarnacol 2163. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.



Membrane:

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With High Density Wood Fiberboard) Sarnafil S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With DensDeck or DensDeck Prime) Sarnafil S327 adhered with Sarnacol 2170 applied at 1.25gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure:

-45 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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.

Vapor Retarders (Optional): Any UL or FM approved vapor retarder may be installed over the deck.

One or more layers of any of the following insulations:

<u>Base Insulation Layer (Optional):</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ACFoam-III, Multi-Max FA-3, JM ISO 3, ISO 95+GL, Sarnatherm (a), Sarnatherm-25 PSI, Sarnatherm, H-Shield Minimum 1.5” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 0.5” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ACFoam-III, Multi-Max FA-3, Sarnatherm, H-Shield Tapered	N/A	N/A

Note: All insulation shall be adhered to the deck in 3-3.5” wide beads spaced 12” o.c. of TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.



Membrane:

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

Sarnafil S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or with Sarnacol 2170 applied at 1.25 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

**Maximum Design
Pressure:**

-45 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Lightweight insulating concrete
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:

<u>Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, H-Shield, ENRGY 3, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI Minimum 1” thick or tapered	N/A	N/A

Note: All insulation shall be adhered to the deck in ¾” – 1” wide beads 12” o.c. of OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼” x ¼” notched squeegee or with Sarnacol 2170 adhesive rolled applied as a primer at a rate of 1.0-1.25 gal/sq to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld

Or

Sarnafil S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼” x ¼” notched squeegee or with Sarnacol 2170 adhesive applied at 1.25 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Maximum Design Pressure: -90 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Gypsum
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:

<u>Insulation Layer:</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
ACFoam-II, H-Shield, ENRGY 3, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI Minimum 1.5” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ¾” – 1” wide beads 12” o.c. of OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼” x ¼” notched squeegee or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Or

Sarnafil S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼” x ¼” notched squeegee or with Sarnacol 2170 adhesive applied at 1.25 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(8): 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:

<u>Base Insulation Layer (Optional):</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved EPS (Not used with Sarnacol 2170) Minimum 2” thick	N/A	N/A
 <u>Top Insulation Layer:</u>	 <u>Insulation Fasteners (Table 3)</u>	 <u>Fastener Density/ft²</u>
Approved High Density Wood Fiberboard Minimum 0.5” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 0.25” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ¾" – 1" wide beads 12" o.c. of OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.



Membrane:

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With High Density Wood Fiberboard) Sarnafil S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With DensDeck or DensDeck Prime) Sarnafil S327 adhered with Sarnacol 2170 applied at 1.25gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure:

-120 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(9): 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:

<u>Base Insulation Layer (Optional):</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, H-Shield, ISO 95+ GL, Sarnatherm, Sarnatherm (a), Sarnatherm-25 PSI Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum 0.25” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ¾” – 1” wide beads 12” o.c. of OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼” x ¼” notched squeegee or Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Or

Sarnafil S327 adhered with Sarnacol 2170 applied at 1.25gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Maximum Design Pressure: -120 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(10): 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:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ENRGY 3, Sarnatherm, H-Shield Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum 0.25” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ¾” – 1” wide beads 12” o.c. of OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼” x ¼” notched squeegee or Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Or

Sarnafil S327 adhered with Sarnacol 2170 applied at 1.25gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Maximum Design Pressure: -120 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(11): 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:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL, H-Shield, ACFoam-II, Sarnatherm, Sarnatherm (a), Sarnatherm-25 PSI Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved High Density Wood Fiberboard Minimum 1” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ¾” – 1” wide beads 12” o.c. of OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt, S327 Felt or S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼” x ¼” notched squeegee. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Maximum Design Pressure: -120 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(12): 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:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved XPS Minimum 1" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in 3/4" – 1" wide beads 12" o.c. of OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -120 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 200 psi lightweight insulating concrete
System Type A(13): 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:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, H-Shield, ISO 95+ GL, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI Minimum 1.5” thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum 0.5” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 0.25” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved High Density Wood Fiberboard Minimum 1” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 0.25” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ¾" – 1" wide beads 12" o.c. of OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.



Membrane:

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With High Density Wood Fiberboard) Sarnafil S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With DensDeck or DensDeck Prime) Sarnafil S327 adhered with Sarnacol 2170 applied at 1.25gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure:

-120 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(14): 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.

Vapor Retarders (Optional): Any UL or FM approved asphaltic vapor retarder may be installed over the deck or the base layer of insulation

One or more layers of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, Multi-Max-3, ENRGY 3, H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved High Density Wood Fiberboard Minimum 0.5” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ½” to ¾” wide beads 12” o.c. of Millennium One Step Foamable Adhesive or Sarnacol 2163. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt, S327 Felt or S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼” x ¼” notched squeegee. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Maximum Design Pressure: -127.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(15): 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.

Vapor Retarders (Optional): (Optional) Any UL or FM approved asphaltic vapor retarder may be installed over the deck or the base layer of insulation

One or more layers of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ACFoam-III, ENRGY 3, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, H-Shield Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved High Density Wood Fiberboard Minimum 0.25” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ½” to ¾” wide beads 12” o.c. of Millennium One Step Foamable Adhesive or Sarnacol 2163. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt, S327 Felt or S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼” x ¼” notched squeegee. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Maximum Design Pressure: -127.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Gypsum
System Type A(16): 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:

<u>Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved High Density Wood Fiberboard Minimum 0.5" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ¾" – 1" wide beads 12" o.c. of OlyBond 500 or Spot Shot Adhesive Fastener. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt, S327 Felt or S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼" x ¼" notched squeegee. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -135 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(17): 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:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, H-Shield, ENRGY 3, ISO 95+ GL, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI Minimum 1.5” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 0.25” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum 0.25” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in full coating of OlyBond Adhesive Fastener at a rate of 1 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a ¼” x ¼” notched squeegee or Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Or

Sarnafil S327 adhered 2170 applied at 1.25gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Maximum Design Pressure: -127.5 psf (with ENRGY 3) (See General Limitation #9)
-150.0 psf (with all other polyiso insulation boards) (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(18): 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.

Vapor Retarders (Optional): Any UL or FM approved asphaltic vapor retarder may be installed over the deck or the base layer of insulation

One or more layers of the following insulations:

<u>Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, Multi-Max-3, ENRGY 3, H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI Minimum 1.5” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 0.25” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in 1/2” to 3/4” wide beads 12” o.c. of Millennium One Step Foamable Adhesive or Sarnacol 2163. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.



Membrane:

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With Polyisocyanurate Insulation Boards) Sarnafil S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or with Sarnacol 2170 applied at 1.25gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With DensDeck or DensDeck Prime) Sarnafil S327 adhered with Sarnacol 2170 applied at 1.25gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure:

-127.5 psf (See General Limitation #9)

-157.5 psf (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(19): 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.

Vapor Retarders (Optional): Any UL or FM approved asphaltic vapor retarder may be installed over the deck or the base layer of insulation

One or more layers of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved XPS or EPS Minimum 1” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved High Density Wood Fiberboard Minimum 0.5” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in 1/2” to 3/4” wide beads 12” o.c. of Millennium One Step Foamable Adhesive or Sarnacol 2163. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt, S327 Felt or S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4” x 1/4” notched squeegee. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Maximum Design Pressure: -150 psf. (with EPS) (See General Limitation #9)
-172.5 psf. (with XPS) (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(20): 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.

Vapor Retarders (Optional): Any UL or FM approved asphaltic vapor retarder may be installed over the deck or the base layer of insulation

One or more layers of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved EPS Minimum 1.5" thick	N/A	N/A
Approved XPS Insulation Boards Minimum 1" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum 0.25" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in 1/2" to 3/4" wide beads 12" o.c. of Millennium One Step Foamable Adhesive or Sarnacol 2163. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -202.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(21): 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.

Vapor Retarders (Optional): Any UL or FM approved vapor retarder may be installed over the deck.

One or more layers of any of the following insulations:

<u>Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ACFoam-III, Multi-Max FA-3, JM ISO 3, ISO 95+GL, Sarnatherm (a), Sarnatherm-25 PSI Minimum 1.5” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 0.5” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in 3-3.5” wide beads spaced 12” o.c. of TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.



Membrane:

Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With Polyisocyanurate Insulated Boards) Sarnafil or S327 adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or with Sarnacol 2170 applied at 1.25 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

(With DensDeck or DensDeck Prime) Sarnafil S327 adhered with Sarnacol 2170 applied at 1.25 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure:

-202.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(22): 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.

Vapor Retarders (Optional): Any UL or FM approved vapor retarder may be installed over the deck.

One or more layers of any of the following insulations:

<u>Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum 0.5" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in 3-3.5" wide beads spaced 12" o.c. of TITE-SET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at 2.25 gal/sq. to the insulation using a 1/4" x 1/4" notched squeegee or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal/sq. to the insulation allowed to dry. Following a second coat roller applied of adhesive at 1.0 gal/sq. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Or

Sarnafil S327 adhered with Sarnacol 2170 applied at 1.25 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane. The roof cover is immediately placed into the adhesive and the top surface rolled with a weighted roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressure: -202.5 psf. (See General Limitation #9)



Membrane Type:	Single Ply, PVC
Deck Type 7I:	Recover, Insulated
Deck Description:	Concrete/lightweight concrete/cementitious wood fiber/wood/steel/gypsum
System Type B:	Base layer of insulation mechanically attached, optional top layer fully adhered with approved asphalt, membrane 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.

Vapor Retarder (Optional): An FM approved vapor retarder approved for use with hot asphalt may be applied to the deck or base insulation layer

Fire Barrier (Optional): Minimum 1/4" Type X Gypsum or DensDeck.

One or more layers of any of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ACFoam Composite, H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI		
Minimum 1.3" thick or tapered	1 or 4	1:2 ft ²
Minimum 2" thick or tapered	1 or 4	1:4 ft ²
ENRGY-3, ENRGY 3 Plus, ENRGY 3 25 PSI, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, H-Shield		
Minimum 1.4" thick or tapered	1, 4 or 16	1:3 ft ²
Minimum 2" thick or tapered	1, 4 or 16	1:4 ft ²
DensDeck, DensDeck Prime		
Minimum 1/4" thick	1, 4 or 16	1:1.2 ft ²
Minimum 1/2" thick	1, 4 or 16	1:1.7 ft ²
Multi-Max FA-3, Thermofoam Composite-3 (bottom layer only)		
Minimum 1.25" thick or tapered	1, 4 or 16	1:2 ft ²
Minimum 2" thick or tapered	1, 4 or 16	1:4 ft ²
Approved High Density Wood Fiberboard (base layer only)		
Minimum 1" thick	1, 4 or 16	1:2 ft ²
Approved Perlite Insulation Board		
Minimum 3/4" thick	1, 4 or 16	1:1 ft ²



Note: Base layers of insulation shall be mechanically attached with fasteners and density described above. The 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).

<u>Top Insulation Layer (Optional):</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, Sarnatherm (a), Sarnatherm-25 PSI Minimum 1.3” thick or tapered	N/A	N/A
ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, Sarnatherm, Sarnatherm-25 PSI Minimum 1.4” thick or tapered	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A
Multi-Max FA-3 Minimum 1.25” thick or tapered	N/A	N/A

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 applied at 1.25 gal./sq. to the substrate and .5 gal./sq. to the back of the Membrane, or Sarnacol 2121 applied to the substrate only at 1.5 to 2.5 gal./sq. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

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



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Concrete/lightweight concrete/cementitious wood fiber/wood/steel
System Type C(1): All layers of insulation simultaneously attached, membrane 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.

Vapor Retarder (Optional): Sarnavap-10 vapor barrier applied directly to the deck or over base insulation layer.

Fire Barrier (Optional): Minimum 1/4" Type X Gypsum or DensDeck.

One or more layers of any of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ACFoam-III, ACFoam Composite, ACFoam Supreme, H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI Minimum 1.3" thick or tapered	N/A	N/A
ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, ISO 95+ GL, ACFoam-II, H-Shield, Sarnatherm, Sarnatherm (a), Sarnatherm-25 PSI Minimum 1.4" thick or tapered	N/A	N/A
DensDeck, DensDeck Prime Minimum 1/4" thick	N/A	N/A
Multi-Max FA-3, Therमारoof-3 Minimum 1.25" thick or tapered	N/A	N/A
Approved High Density Wood Fiberboard (base layer only) Minimum 1" thick	N/A	N/A
Approved Perlite Insulation Board (base layer only) Minimum 3/4" 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:

	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ACFoam-III, Sarnatherm (a), Sarnatherm-25 PSI		
Minimum 1.3" thick or tapered	1, 4 or 16	1:2 ft ²
Minimum 2" thick or tapered	1, 4 or 16	1:4 ft ²
ENRGY 3, ENRGY 3 Plus, ENRGY 3 25 PSI, ISO 95+ GL, ACFoam-II, H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI		
Minimum 1.4" thick or tapered	1, 4 or 16	1:3 ft ²
Minimum 2" thick or tapered	1, 4 or 16	1:4 ft ²
DensDeck, DensDeck Prime		
Minimum ¼" thick	1, 4 or 16	1:1.2 ft ²
Minimum ½" thick	1, 4 or 16	1:1.7 ft ²
Multi-Max FA-3		
Minimum 1.25" thick	1, 4 or 16	1:2 ft ²
Minimum 2" thick	1, 4 or 16	1:4 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: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 applied at 1.25 gal./sq. to the substrate and 0.5 gal./sq. to the back of the Membrane, or Sarnacol 2121 applied to the substrate only at 1.5 to 2.5 gal./sq.

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



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: 18 – 22ga., ASTM A653 Grade 33 steel deck fastened to 0.25 in. thick structural supports spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 24 in. o.c.
System Type C(2): All layers of insulation simultaneously fastened; membrane bonded.

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:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Sarnatherm or H-Shield Minimum 0.25” 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.

<u>Top Insulation Layer (Optional):</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved cover board listed in Table 2 Minimum 1.5” thick	13 with 25	See Design Pressure

Note: 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: Sarnafil S327 bonded to RhinoBond Insulation Plates with RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Side lap is sealed with minimum 3/4” wide heat weld.

Maximum Design Pressures:	Maximum Pressure	Fastener Spacing	Fastener Row Spacing
	-45 psf (See General Limitation #7)	2 ft.	3 ft.
	-60 psf (See General Limitation #7)	2 ft.	2 ft.



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Minimum 2500 psi concrete or concrete plank or min.
System Type C(3): All layers of insulation simultaneously fastened; 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 any of the following insulations:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any Approved Polyisocyanurate Listed in Table 2		
Minimum 1.5" 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.

<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime		
Minimum 5/8" thick	16 and 17	1:2ft ²

Note: 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: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2121 adhesive applied at a rate of 2.0 – 2.5 gal/sq. to substrate. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.

Maximum Design Pressures: -52.5 psf. (See General Limitation #7)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: 18 – 22ga., ASTM A653 Grade 80 steel deck fastened 0.25 in.thick structural supports spaced 6 ft. o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 24 in. o.c
System Type C(4): All layers of insulation simultaneously fastened; membrane bonded.

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:

<u>Base Insulation Layer:</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
Sarnatherm or H-Shield		
Minimum 1.5” 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.

<u>Top Insulation Layer (Optional):</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved cover board listed in Table 2		
Minimum 0.25” thick	13 or 22 with 25	See Design Pressure

Note: 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: Sarnafil S327 bonded to PVC Rhino Plates with Rhino Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Side lap is sealed with minimum 3/4” wide heat weld.

	Maximum Pressure	Fastener Spacing	Fastener Row Spacing
Maximum Design Pressures:	-45 psf (See General Limitation #7)	2 ft.	3 ft.
	-60 psf (See General Limitation #7)	2 ft.	2 ft.



Membrane Type: Single Ply, PVC
Deck Type 7: Recover, Non-Insulated
Deck Description: Concrete/lightweight concrete/cementitious wood fiber/steel
System Type F: Membrane adhered to sustrate.

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.

Fire Barrier: None
Membrane: Sarnafil G410 Felt or S327 Felt adhered with Sarnacol 2170 applied to the substrate only at 1.5 to 2.5 gal/sq.
Maximum Design Pressure: -45 psf. (See General Limitation #9)



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