



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
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www.miamidade.gov/economy

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 renews NOA# 23-0427.02 and consists of pages 1 through 72.
The submitted documentation was reviewed by Alex Tigera.

05/16/24



NOA No.: 24-0227.04
Expiration Date: 05/16/25
Approval Date: 05/16/24
Page 1 of 72

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	PVC
Deck Type:	Recover
Maximum Design Pressure:	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	48, 60, 72 and 80 mils	ASTM D4434	Fiberglass reinforced PVC roofing membrane.
G410 Textured	48, 60, 72 and 80 mils	ASTM D4434	Fiberglass reinforced PVC roofing membrane.
G410 Felt	48, 60, 72 and 80 mils	ASTM D4434	Fiberglass reinforced PVC roofing membrane with a non-woven felt backing.
G410 Felt Textured	48, 60, 72 and 80 mils	ASTM D4434	Fiberglass reinforced PVC roofing membrane with a non-woven felt backing.
S327	48, 60, 72 and 80 mils	ASTM D4434	Polyester reinforced PVC roofing membrane.
S327 Textured	60 mils	ASTM D4434	Polyester reinforced PVC roofing membrane.
S327 (10 ft)	48, 60, 72 and 80 mils	ASTM D4434	Polyester reinforced PVC roofing membrane.
S327 Felt	48, 60, 72 and 80 mils	ASTM D4434	Polyester reinforced PVC roofing membrane with a non-woven felt backing.
Sikaplan Fastened	45 mils and 60 mils	ASTM D4434	White polyester reinforced PVC roofing membrane.
Sikaplan Fastened Feltback	45 mils and 60 mils	ASTM D4434	White polyester reinforced PVC roofing membrane.
Sikaplan Adhered	60 mils	ASTM D4434	White polyester reinforced PVC roofing membrane.
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.
Sarnacol AD Feltback Membrane Adhesive	5 gallons	Proprietary	Two-component foamable polyurethane membrane or insulation adhesive.
Sarnacol AD Board Adhesive	5 gallons	Proprietary	Two-component foamable polyurethane insulation adhesive.
Sikaplan Water Based Membrane Adhesive	5 gallons	Proprietary	Water-based dispersion membrane adhesive.



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>
Sikaplan One Step Membrane Adhesive	5 gallons	Proprietary	Water-based dispersion membrane adhesive.
Sarnacol OM Feltback Membrane Adhesive	5 gallons	Proprietary	Two-component foamable polyurethane membrane adhesive.
Sarnacol OM Board Adhesive	5 gallons	Proprietary	Two-component foamable polyurethane insulation adhesive.
Sarnacol 2170 VC	Various	Proprietary	Solvent-based, VOC compliant adhesive.
Sarnatred	3.25' x 32.8'	Proprietary	PVC walkway protection sheet.
Sarnavap-10	20' x 100'	Proprietary	Polyethylene air/vapor barrier.
Sarnastack	Various	Proprietary	Prefabricated cone flashing.
Sarnaclad	Various	Proprietary	Heat weldable PVC/galvanized steel flashing



APPROVED INSULATIONS:

TABLE 2

<u>Product</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
Sarnatherm	Isocyanurate Insulation with fiber reinforced felt paper facer	Sika Sarnafil, A Division of Sika Corp.
Sarnatherm 25 PSI	Polyisocyanurate insulation with fiber reinforced felt paper facer	Sika Sarnafil, A Division of Sika Corp.
Sarnatherm (a)	Isocyanurate Insulation with fiber reinforced felt paper facer	Sika Sarnafil, A Division of Sika Corp.
Insulfoam EPS	Type IX Expanded polystyrene (EPS)	Insulfoam – a division of Carlisle Construction Materials, Inc.
Insulfoam R-Tech	Type IX Expanded polystyrene (EPS)	Insulfoam – a division of Carlisle Construction Materials, Inc.
Kingspan GreenGuard Insulation Board	Type IV Extruded polystyrene (XPS)	Kingspan Insulation LLC
STYROFOAM ROOFMATE	Type IV Extruded polystyrene (XPS)	DuPont de Nemours, Inc.
STYROFOAM PLAZAMATE and HIGHLOAD 60	Type IV Extruded polystyrene (XPS)	DuPont de Nemours, Inc.
DensDeck	Silicon treated gypsum with fiberglass mat facer	Georgia Pacific Gypsum LLC
DensDeck Prime	Silicon treated gypsum with an enhanced fiberglass mat facer	Georgia Pacific Gypsum LLC
H-Shield	Isocyanurate Insulation with fiber reinforced felt paper facer	Hunter Panels, LLC
H-Shield HD	High density polyisocyanurate cover board with a coated glass facer	Hunter Panels, LLC
ENRGY 3	Isocyanurate Insulation with fiber reinforced felt paper facer	Johns Manville Corp.
ENRGY 3 25 PSI	Isocyanurate Insulation with fiber reinforced felt paper facer	Johns Manville Corp.
ACFoam-II	Isocyanurate Insulation with fiber reinforced felt paper facer	Atlas Roofing Corp.
ACFoam-III	Isocyanurate Insulation with coated glass facer	Atlas Roofing Corp.
ACFoam-IV	Isocyanurate Insulation with heavy weight coated glass facer	Atlas Roofing Corp.
ACFoam Supreme	Isocyanurate Insulation with foil facer	Atlas Roofing Corp.
ISO 95+ GL	Isocyanurate Insulation with fiber reinforced felt paper facer	Firestone Building Products Company, LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum-fiber cover board	USG Corporation
SECUROCK Glass-Mat Roof Board	Gypsum cover board with a glass mat facer	USG Corporation



APPROVED INSULATIONS:

TABLE 2

<u>Product</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
Invinsa Roof Board	High density polyisocyanurate cover board with a coated glass facer	Johns Manville Corp.

APPROVED FASTENERS / ADHESIVES:

TABLE 3

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



APPROVED FASTENERS / ADHESIVES:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
18.	Dekfast Isofast IF/IG-C-82X40	Galvalume steel plate	1.5" x 3.2"	SFS Intec, Inc.
19.	Sarnarail Polymer Batten Strip	Polymer batten bar	0.75" x 250'	Sika Sarnafil, A Division of Sika Corp.
20.	Sarnafastener-XP	Insulation and membrane fastener	Various	Sika Sarnafil, A Division of Sika Corp.
21.	Sarnafil MAXLoad, Sarnafastener MAXLoad	Membrane and insulation fastener.	Various	Sika Sarnafil, A Division of Sika Corp.
22.	Sarnadisc XPN	Insulation and membrane fastener	1.5" x 3.75"	Sika Sarnafil, A Division of Sika Corp.
23.	RhinoBond Insulation Plate	Membrane fastening plate	Various	OMG, Inc.
24.	OMG Purlin	Membrane and insulation fastener	Various	OMG, Inc.
25.	Sarnabar	Galvanized or stainless steel membrane fastening bar.	Various	Sika Sarnafil, A Division of Sika Corp.
26.	Sarnadisc MAXLoad Plate	AZ50 galvalume coated steel plate	3.5" Round	Sika Sarnafil, A Division of Sika Corp.
27.	3 in. Ribbed Galvalume Plate	Round Galvalume plated steel stress plate	3" Round	OMG, Inc.
28.	Flat Bottom Metal Plate	Insulation fastening plate.	3" Round	OMG, Inc.
29.	Sikaplan Fastener #14	Insulation and membrane fastener	Various	Sika Sarnafil, A Division of Sika Corp.
30.	Sikaplan Fastener #15	Insulation and membrane fastener	Various	Sika Sarnafil, A Division of Sika Corp.
31.	Sikaplan Board Plate	Round galvalume plated steel stress plate	3" Round	Sika Sarnafil, A Division of Sika Corp.
32.	Sarnadisc RhinoBond	Black primer coated plate for use with PVC membranes	3" Round	Sika Sarnafil, A Division of Sika Corp.
33.	Sikaplan RhinoBond Disc	Black primer coated plate for use with PVC membranes	3" Round	Sika Sarnafil, A Division of Sika Corp.
34.	Sikaplan Board Fastener #12	Insulation fastener for various decks	Various	Sika Sarnafil, A Division of Sika Corp.
35.	OMG OlyBond 500 Adhesive	Spray polyurethane foam insulation adhesive	10 gal. bag-in-box set and 1.5 liters SpotShot cartridge	OMG, Inc.
36.	Millennium One Step Foamable Adhesive	Polyurethane one-step, all-purpose, foamable adhesive	1.5 liters	H.B. Fuller Company



APPROVED FASTENERS / ADHESIVES:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
37.	Millennium PG-1 Low Viscosity Insulation Adhesive	Polyurethane two component low rise adhesive.	5 gal to 50 gal Part (A) or Part (B)	H.B. Fuller Company
38.	ICP Adhesive CR-20	Polyurethane two component low rise insulation adhesive	Two kits (A = 40lb and B = 35lb cylinders)	ICP Adhesives & Sealants, 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
	2X2A5.AM	FM 4470	01/31/94
	0P6A6.AM	FM 4470	03/03/94
	0B9A0.AM	FM 4470	10/22/96
	4B3A2.AM	FM 4470	06/19/97
	1B7A5.AM	FM 4470	02/23/98
	3001580	FM 4470	11/16/98
	3001396	FM 4470	05/28/99
	3003337	FM 4470	06/11/99
	3008869	FM 4470	03/19/01
	3012964	FM 4470	06/11/02
	3012321	FM 4470	07/29/02
	3015643	FM 4470	12/06/02
	3016201	FM 4470	01/28/03
	3014692	FM 4470	08/05/03
	3014751	FM 4470	08/27/03
	3018579	FM 4450	10/09/03
	3006785	FM 4470	05/06/04
	3017292	FM 4470	09/03/04
	3024229	FM 4470	11/16/05
	3024311	FM 4470	11/01/06
	3028309	FM 4470	03/30/07
	3030053	FM 4470	09/12/07
	3029404	FM 4470	09/09/08
	3035670	FM 4470	05/13/09
	3036355	FM 4470	11/10/09
	3039809	FM 4470	07/06/11
	3041256	FM 4470	07/12/11
	3043459	FM 4470	05/11/12
	3053265	FM 4470	10/30/14
Underwriters Laboratories, Inc.	R8992	UL 790	05/15/13
Trinity ERD	4740.04.98-1	FM 4470	04/09/98
	S42480.08.12	Physical Properties	08/20/12
	S44790.06.13	ASTM D4434	06/05/13
	S44790.08.13	ASTM D4434	08/26/13
	S45990.06.14	ASTM D4434	06/02/14
	S44790.07.14-R2	ASTM D4434	06/01/15

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies</u>	<u>Date</u>
Robert Nieminen, P.E.	Signed/Sealed Calculations	D(13)	04/29/16
FM Approval Deck Limitation	N/A	C(3) through C(14), C(17), C(18), D(1) through D(12)	06/22/16



APPROVED ASSEMBLIES

Membrane Type:	Single Ply, PVC
Deck Type 7I:	Recover, Insulated
Deck Description:	Concrete
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 Barrier (Optional):	An FM approved vapor barrier 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 (Table 3)</u>	<u>Fastener Density/ft²</u>
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI (bottom layer only), ACFoam-II, ACFoam-III, ACFoam Supreme, H-Shield any of the above tapered Minimum 1.3" thick	N/A	N/A
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ISO 95+ GL, ENRGY 3 25 PSI, H-Shield Minimum 1.4" thick or tapered	N/A	N/A
DensDeck Prime Minimum 1/4" 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, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive rolled applied as a primer at a rate 1.0-1.25 gal./sq. to the substrate 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 weighed roller. Minimum 3" wide side lap is sealed with a 1.5" wide heat weld.
	Or



(With ISO) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at a rate of 0.75-2gal/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 Prime) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation. 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 AC Foam-II, AC Foam-III, H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI or DensDeck Prime) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 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 minimum 1.25” wide heat weld.

Or

(With AC Foam-II, AC Foam-III, H-Shield, Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI or DensDeck Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5” wide ribbons spaced 12” o.c. 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 minimum 1.25” 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
System Type A(2): 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 Barrier (Optional): An FM approved vapor barrier 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 (Table 3)</u>	<u>Fastener Density/ft²</u>
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI (bottom layer only), ACFoam-II, ACFoam-III, ACFoam Supreme, H-Shield any of the above tapered Minimum 1.3” thick	N/A	N/A
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ISO 95+ GL, ENRGY 3 25 PSI, H-Shield Minimum 1.4” thick or tapered	N/A	N/A
DensDeck Prime Minimum ¼” 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: (*With ISO*) Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step Membrane Adhesive roller applied at a rate of 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at a rate of 0.75-2gal/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 Prime) Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step Membrane Adhesive roller applied at 0.75 gal/sq. to the insulation. 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: Concrete
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.

Vapor Barrier (Optional): FM approved vapor barrier 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>
Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ISO 95+ GL, ENRGY 3 Maximum 1" thick	N/A	N/A
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, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation 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 ISO*) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2 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 Prime) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. 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 ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 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 minimum 1.25” wide heat weld.

Or

(With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5” wide ribbons spaced 12” o.c. 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 minimum 1.25” wide heat weld.

Maximum Design Pressures:

-45 psf. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Concrete
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 Barrier (Optional): FM approved vapor barrier 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>
Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ISO 95+ GL, ENRGY 3 Maximum 1" thick	N/A	N/A
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: (*With ISO*) Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step Membrane Adhesive roller applied at 0.75 gal/sq. to the insulation. 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 Prime*) Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step Membrane Adhesive roller applied at 0.75gal/sq. to the insulation. 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: 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.

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>
Insulfoam EPS (Not used with Sarnacol 2170 or Sarnacol 2170 VC) Minimum 2” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
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 Sarnacol OM Board Adhesive, OMG OlyBond 500 Adhesive 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, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation 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 G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation or with Sarnacol 2170 VC adhesive roller applied at 0.75-2gal/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 minimum 1.25” wide heat weld.

Or



Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. 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 minimum 1.25" wide heat weld.

**Maximum Design
Pressure:**

- 112.5 psf; Felt membranes with Sarnacol 2121 adhesive (See General Limitation #9)
- 120 psf; with all other applications (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(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>Base Insulation Layer (Optional):</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Insulfoam EPS (Not used with Sarnacol 2170 or Sarnacol 2170 VC) Minimum 2" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
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 Sarnacol OM Board Adhesive, OMG OlyBond 500 Adhesive 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: Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step Membrane Adhesive roller applied at 0.75gal/sq. to the insulation. 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 minimum 1.25" 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(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.

Vapor Barrier (Optional): Any UL or FM approved asphaltic vapor barrier 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>
Sarnatherm, Sarnatherm (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ISO 95+ GL, 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 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 Sarnacol OM Board Adhesive, OMG OlyBond 500 Adhesive 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 (Option 1); Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2 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: -150.0 psf; with asphaltic vapor Barrier (See General Limitation #9)



Membrane (Option 2): Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation 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.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5” wide ribbons spaced 12” o.c. 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #4: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. 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: -150.0 psf; with asphaltic vapor Barrier (See General Limitation #9)

Maximum Design Pressures: See Attachment. (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:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Kingspan GreenGuard Insulation Board, STYROFOAM ROOFMATE, STYROFOAM PLAZAMATE and HIGHLOAD 60 Minimum 1” thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
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 Sarnacol OM Board Adhesive, OMG OlyBond 500 Adhesive 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 (Option 1): Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2 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: -127.5 psf. (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation 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.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)



Attachment #2: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5” wide ribbons spaced 12” o.c. 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. 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)

Maximum Design Pressures:

See Attachment. (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:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, ISO 95+ GL, H-Shield Minimum 1.5” thick	N/A	N/A
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 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 (Option 1): Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2 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: -150.0 psf. (See General Limitation #9)



Membrane (Option 2); Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation 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.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5” wide ribbons spaced 12” o.c. 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #4: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. 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: -150.0 psf. (See General Limitation #9)

Maximum Design Pressures:

See Attachment. (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.

Vapor Barrier (Optional): Any UL or FM approved asphaltic vapor barrier 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>
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield Minimum 1.5” thick	N/A	N/A
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 Sarnacol 2163, Sarnacol AD Board Adhesive, Sarnacol AD Felback Membrane Adhesive, Millennium One Step Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive. 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 (Option 1): Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the insulation layers as specified below.

Attachment #1: *(With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI)* Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: *(With DensDeck Prime)* Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)



Attachment #3: (With DensDeck Prime) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2 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: -157.5 psf; with asphaltic vapor barrier (See General Limitation #9)

Attachment #4: (With ISO) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol 2170 adhesive applied at 0.75-2gal/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 -232.5 psf; without vapor barrier (See General Limitation #9)

Membrane (Option 2): Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation 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.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5” wide ribbons spaced 12” o.c. 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #4: *(With DensDeck Prime)* Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 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 minimum 1.25” wide heat weld.

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

Attachment #5: *(With DensDeck Prime)* Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. 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: -157.5 psf; with asphaltic vapor barrier (See General Limitation #9)

Maximum Design Pressures:

See Attachment. (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.

Vapor Barrier (Optional): Any UL or FM approved asphaltic vapor barrier 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>
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield Minimum 1.5” thick	N/A	N/A
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 Sarnacol 2163, Sarnacol AD Board Adhesive, Sarnacol AD Feltback Membrane Adhesive, Millennium One Step Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive. 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: (With ISO) Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step Membrane Adhesive roller applied at 0.75 gal/sq. to the insulation. 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: -232.5 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(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.

Vapor Barrier (Optional): Any UL or FM approved vapor barrier 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>
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, ACFoam-II, ACFoam-III, ISO 95+GL, H-Shield Minimum 1.5” thick	N/A	N/A
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 ICP 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 (Option 1): Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the insulation layers as specified below.

Attachment #1: *(With ACFoam-II, ACFoam-III, Sarnatherm (a) and Sarnatherm-25 PSI)* Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: *(With DensDeck Prime)* Sarnafil G410, G410 Felt Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)



Attachment #3: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2 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: -232.5 psf; with asphaltic vapor barrier (See General Limitation #9)

Membrane (Option 2); Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: (With AC Foam-II, AC Foam-III, Sarnatherm (a) and Sarnatherm-25 PSI) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -97.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation 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.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #3: (With AC Foam-II, AC Foam-III, Sarnatherm (a) and Sarnatherm-25 PSI or DensDeck Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5” wide ribbons spaced 12” o.c. 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #4: (With DensDeck Prime) Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #5: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. 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: -232.5 psf; with asphaltic vapor barrier (See General Limitation #9)

Maximum Design Pressures:

See Attachment. (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(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.

Vapor Barrier (Optional): Any UL or FM approved vapor barrier 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 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 ICP 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 (Option 1): Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #2: (With Vapor Barrier) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 adhesive applied at 0.75-2 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 (Option 2): Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. to the insulation 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.
Maximum Design Pressure: -112.5 psf. (See General Limitation #9)

Attachment #2: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5” wide ribbons spaced 12” o.c. 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -120.0 psf. (See General Limitation #9)

Attachment #3: Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 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 minimum 1.25” wide heat weld.
Maximum Design Pressure: -127.5 psf. (See General Limitation #9)

Attachment #4: *(With Vapor Barrier)* Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 adhesive applied at 0.75-2 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at 0.75gal/sq. to the insulation. 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)

Maximum Design Pressures:

See Attachment. (See General Limitation #9)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 33ksi, 22ga. steel
System Type C(1): 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</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-III Minimum 1.5" thick	15 with 16	1:2 ft 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, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 gal/sq. to the substrate and 0.5 gal/sq. to the back of the membrane or with Sarnacol 2121 adhesive roller applied at a rate of 0.75 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 minimum 1.25" wide heat weld.

Or

Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 gal/sq or with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal/sq. or with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive in 0.5" wide ribbons spaced 12" o.c. 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 minimum 1.25" 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. 33ksi, 22ga. steel
System Type C(2): 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</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-III Minimum 1.5” thick	15 with 16 or 34 with 31	1:2 ft 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: Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step Membrane Adhesive roller applied at a rate of 0.75 gal/sq. to the insulation. 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 minimum 1.25” 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. 33ksi, 16-22ga. steel
System Type C(3): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate bonding tool.

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, H-Shield Minimum 1.0" thick	20 with 32 or 12 with 23	See Design Pressure

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327, S327 Textured or S327 (10 ft) bonded to RhinoBond Insulation Plates with RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3" wide side lap is sealed with a minimum 3/4" wide heat weld.

Maximum Design Pressures:	Maximum Pressure	Fastener Spacing	Fastener Row Spacing
	-45.0 psf (See General Limitation #9)	2 ft.	3 ft.



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 33ksi, 16-22ga. steel
System Type C(4): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate bonding tool.

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, H-Shield Minimum 1.0" thick	30 with 33 or 20 with 32	See Design Pressure

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan Fastened bonded to Sikaplan RhinoBond Disc with Sikaplan Fastener #15 or Sarnadisc RhinoBond with Sarnafastener #15 using RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3" wide side lap is sealed with a minimum 3/4" wide heat weld.

Maximum Design Pressures:	Maximum Pressure	Fastener Spacing	Fastener Row Spacing
	-45.0 psf (See General Limitation #9)	2 ft.	3 ft.



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: 16 – 22ga., Type B 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.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type C(5): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate bonding tool.

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 (Optional):</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Sarnatherm, H-Shield Maximum 1” 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>
Any approved cover board listed in Table 2 Minimum 0.25” thick	20 with 32 or 12 with 23	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, S327 Textured or S327 (10 ft) 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: 16 – 22ga., Type B 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.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type C(6): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate bonding tool.

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 (Optional):</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Sarnatherm, H-Shield Maximum 1” 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>
Any approved cover board listed in Table 2 Minimum 0.25” thick	30 with 33 or 20 with 32	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: Sikaplan Fastened bonded to Sikaplan RhinoBond Disc with Sikaplan Fastener #15 or Sarnadisc RhinoBond with Sarnafastener #15 using 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: 16 – 22ga., Type B, 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.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type C(7): 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>
Sarnatherm, H-Shield Maximum 1” 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 0.25” thick	20 with 32 or 12 with 23	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, S327 Textured or S327 (10 ft) bonded to RhinoBond Insulation 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 7I: Recover, Insulated
Deck Description: 16 – 22ga., Type B, 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.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type C(8): 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>
Sarnatherm, H-Shield Maximum 1” 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 0.25” thick	30 with 33 or 20 with 32	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:	Sikaplan Fastened bonded to Sikaplan RhinoBond Disc with Sikaplan Fastener #15 or Sarnadisc RhinoBond with Sarnafastener #15 using 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 7I: Recover, Insulated

Deck Description: 18-22 ga., Grade 33 steel deck fastened to the 0.25” thick structural supports spaced maximum 6’ o.c. with one #12 ICH Traxx 5 fastener spaced maximum 6 in. o.c. and with side laps secured with one #10 ICH Traxx 1 fastener spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type C(9): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate bonding tool.

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, H-Shield Maximum 1.0” thick	20 with 32 or 11 with 23	<i>See Design Pressure</i>

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327, S327 Textured or S327 (10 ft) bonded to RhinoBond Insulation Plates with RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3” wide side lap is sealed with a minimum ¾” wide heat weld.

Maximum Design Pressures:	Maximum Pressure	Fastener Spacing	Fastener Row Spacing
	-60.0 psf (See General Limitation #7)	2 ft.	2 ft.



Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: 18-22 ga., Grade 33 steel deck fastened to the 0.25” thick structural supports spaced maximum 6’ o.c. with one #12 ICH Traxx 5 fastener spaced maximum 6 in. o.c. and with side laps secured with one #10 ICH Traxx 1 fastener spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type C(10): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate bonding tool.

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, H-Shield Maximum 1.0” thick	30 with 33 or 20 with 32	See Design Pressure

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan Fastened bonded to Sikaplan RhinoBond Disc with Sikaplan Fastener #15 or Sarnadisc RhinoBond with Sarnafastener #15 using RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Minimum 3” wide side lap is sealed with a minimum 3/4” wide heat weld.

Maximum Design Pressures:	Maximum Pressure	Fastener Spacing	Fastener Row Spacing
	-60.0 psf (See General Limitation #7)	2 ft.	2 ft.



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 18-20ga., Type B, Grade 80 steel deck fastened to 0.25 in. thick structural supports spaced 6 ft. o.c. with two Traxx/5 fasteners, with 3/4 in. washers, at each rib spaced 6 in. o.c. in rows above each support 6 ft. o.c. and with side laps fastened with Traxx/1 fasteners spaced 24 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type C(11): 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</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
Sarnatherm (a), Sarnatherm 25 PSI, ACFoam-II, ACFoam-III, ACFoam-IV Minimum 2" thick	16 with 20	1:1 ft 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, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied to the substrate at 0.75 gal/sq. and to the roof cover at 0.5 gal/sq. or with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation. 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 1.25" wide heat weld.

Or

Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to only the substrate in two coats with a total application rate of 2.0 gal/sq. or with Sarnacol 2121 adhesive roller applied at 0.75 gal/sq. to the insulation or with Sarnacol AD Feltback Membrane Adhesive or OM Feltback Membrane adhesive applied in 0.5" wide ribbons spaced 12" o.c. 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 1.25" wide heat weld.

Maximum Design Pressure: -97.5 psf (See General Limitation #7)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 18-22ga., Type B, Grade 80 steel deck fastened to 0.25 in. thick structural supports spaced 6 ft. o.c. with two Traxx/5 fasteners, with 3/4 in. washers, at each rib spaced 6 in. o.c. in rows above each support 6 ft. o.c. and with side laps fastened with Traxx/1 fasteners spaced 24 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type C(12): 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</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
Sarnatherm (a), Sarnatherm 25 PSI, ACFoam-II, ACFoam-III, ACFoam-IV Minimum 2" thick	16 with 20 or 31 with 30	1:1 ft 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: Sikaplan Adhered with Sikaplan Water Based Membrane Adhesive or Sikaplan One Step Membrane Adhesive roller applied at 0.75 gal/sq. to the insulation. 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 1.25" wide heat weld.

Maximum Design Pressure: -97.5 psf (See General Limitation #7)



Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: 18 ga., Type B, 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 two Traxx 1 fasteners spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type C(13): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate bonding tool.

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, 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 (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board Minimum 0.25" thick	20 with 32 or 11 with 23	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: Insulation layer shall be fastened through to the steel deck with the fastener and plate listed above. The Sarnafil S327, S327 Textured or S327 (10 ft) membrane shall be induction welded to the 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 Pressure	Fastener Spacing	Fastener Row Spacing
Maximum Design Pressures:	-45 psf (See General Limitation #7)	12 in.	6 ft.
	-52.5 psf (See General Limitation #7)	12 in.	5 ft.
	-90 psf (See General Limitation #7)	6 in.	6 ft.
	-105 psf (See General Limitation #7)	6 in.	5 ft.



Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: 18 ga., Type B, 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 two Traxx 1 fasteners spaced 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type C(14): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate bonding tool.

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, 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 (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board Minimum 0.25" thick	30 with 33 or 20 with 32	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: Insulation layer shall be fastened through to the steel deck with the fastener and plate listed above. The Sikaplan Fastened membrane shall be induction welded to the Sikaplan RhinoBond Disc with Sikaplan Fastener #15 or Sarnadisc RhinoBond with Sarnafastener #15 using 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)	12 in.	6 ft.
-52.5 psf (See General Limitation #7)	12 in.	5 ft.
-90 psf (See General Limitation #7)	6 in.	6 ft.
-105 psf (See General Limitation #7)	6 in.	5 ft.



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Steel (Existing Structural Insulated or Non-Insulated Standing or Lap Seam Metal Roof Panel Assembly).
System Type C(15): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate bonding tool.

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: To be placed between the ribs or over panel of existing structural metal roof system</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved Polyiso or EPS 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, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board Minimum 0.25” thick	23 or 32 with 24	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: Insulation layer shall be fastened through to the steel purlin with the fastener and plate listed above. The Sarnafil S327, S327 Textured or S327 (10 ft) membrane shall be induction welded to the 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 Pressure	Fastener Spacing	Fastener Row Spacing
Maximum Design Pressures:	-45 psf (See General Limitation #7)	12 in.	6 ft.
	-52.5 psf (See General Limitation #7)	12 in.	5 ft.
	-90 psf (See General Limitation #7)	6 in.	6 ft.
	-105 psf (See General Limitation #7)	6 in.	5 ft.



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Steel (Existing Structural Insulated or Non-Insulated Standing or Lap Seam Metal Roof Panel Assembly).
System Type C(16): All layers of insulation simultaneously fastened; membrane adhered using RhinoBond plate bonding tool.

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:

Base Insulation Layer: To be placed between the ribs or over panel of existing structural metal roof system **Insulation Fasteners (Table 3)** **Fastener Density/ft²**

Any approved Polyiso or EPS 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.

Top Insulation Layer): **Insulation Fasteners (Table 3)** **Fastener Density/ft²**

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board
 Minimum 0.25” thick 23 or 33 with 24 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: Insulation layer shall be fastened through to the steel purlin with the fastener and plate listed above. The Sikaplan Fastened membrane shall be induction welded to the Sikaplan RhinoBond Disc with Sikaplan Fastener #15 or Sarnadisc RhinoBond with Sarnafastener #15 using RhinoBond Plate bonding tool at 6 seconds per plate so the tool reaches 400°F. Side lap is sealed with minimum ¾” wide heat weld.

	Maximum Pressure	Fastener Spacing	Fastener Row Spacing
Maximum Design Pressures:	-45 psf (See General Limitation #7)	12 in.	6 ft.
	-52.5 psf (See General Limitation #7)	12 in.	5 ft.
	-90 psf (See General Limitation #7)	6 in.	6 ft.
	-105 psf (See General Limitation #7)	6 in.	5 ft.



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: 18-22 ga., Type B, Grade 33 steel deck fastened to 0.25 in. thick structural supports spaced 6 ft. o.c. with two Traxx 5 fasteners and 3/4" thick washers spaced 6 in. o.c. and with side laps fastened with one Traxx 1 fasteners spaced 12 in. o.c. Perimeter securement spaced 12 in. o.c. along the 24 ft length and 6 in. o.c. along the 12 ft length using Traxx/5 fasteners and 3/4" thick washers.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type C(17): 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</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
Sarnatherm (a), Sarnatherm, Sarnatherm-25 PSI, AC Foam-II, AC Foam-III, AC Foam-IV, H-Shield Minimum: 1.5" thick	N/A	N/A
<u>Top Insulation Layer:</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Glass-Mat Roof Board, Invinsa Roof Board, H-Shield HD Minimum 0.5" thick	15 with 16	1:1 ft 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 S327 Felt, G410 Felt, G410 Felt Textured adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive applied in four rows of 0.5" wide ribbons spaced 12" o.c. or adhered with Sarnacol 2170 VC adhesive applied to the substrate in two coats with a total application rate of 2.0 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 1.25" wide heat weld.

Or

(Not with SECUROCK coverboards) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied at 0.75 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 1.25" wide heat weld.

Maximum Design Pressure: -82.5 psf. (See General Limitation #7)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 18-22ga., Type B, Grade 80 steel deck fastened to 0.25 in. thick structural supports spaced 6 ft. o.c. with two Traxx/5 fasteners, with 3/4 in. washers, at each rib spaced 6 in. o.c. in rows above each support 6 ft. o.c. and with side laps fastened with Traxx/1 fasteners spaced 24 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type C(18): 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.

Fire Barrier (Optional): Minimum 1/4" DensDeck, DensDeck Prime and SECUROCK Gypsum-Fiber Roof Board

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, 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:</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime, SECUROCK Glass-Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, Invinsa Roof Board Minimum 0.25" thick	16 with 20	1:1 ft ²

Note: Top insulation layer shall also be adhered with Sarnacol OM Board Adhesive or OMG OlyBond 500 Adhesive applied in 3/4-inch ribbons spaced 12-inch o.c. 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: (*Not with SECUROCK coverboards*) Sarnafil G410, G410 Textured, S327, S327 Textured or S327 (10 ft) adhered with Sarnacol 2170 VC adhesive applied to the substrate at 0.75 gal/sq and to the roof cover at 0.5 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 1.25" wide heat weld.
 Or



Sarnafil G410 Felt, G410 Felt Textured or S327 Felt adhered with Sarnacol 2170 VC adhesive applied to only the substrate in two coats with a total application rate of 2.0 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 1.25” wide heat weld.

Maximum Design Pressure: -127.5 psf (See General Limitation #7)



Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-22 ga., A1008 SS Grade 80 or A653 Grade 80 steel deck is 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.
**Fastening #1*

Or

Min. 18-22 ga., Type B, Grade 80 steel deck is fastened to 0.25 in. thick structural supports, spaced 6' 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.
**Fastening #2*

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type D(1): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

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 insulation listed in Table 2 Maximum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.



- Membrane:** Sarnafil S327, S327 Textured or S327 (10 ft) attached to deck as specified below with Sarnarail Polymer Batten Strips.
- Fastening #1:** (*Not with S327 (10 ft)*) Sarnafasteners-XP fasteners spaced 12” o.c. through batten strip spaced maximum 73.25” o.c. within the 5.5” wide side lap. Batten strip splice joints are made by overlapping the batten 18” and securing with two Sarnafastener XP screws spaced 12” o.c. Laps are sealed with at 1.5” wide heat weld on the outside edge and 1.0” wide heat weld on the inside edge.
Maximum Design Pressure -45.0 psf. (See General Limitation #7)
- Fastening #2:** (*With S327 (10 ft)*) Sarnafasteners-XP fasteners spaced 6” o.c. through batten strip spaced maximum 144” o.c. within the 5.5” wide side lap. Batten strip splice joints are made by overlapping the batten 12” and securing with two Sarnafastener XP fasteners spaced 6” o.c. Laps are sealed with at 1.5” wide heat weld on the outside edge and 1.0” wide heat weld on the inside edge.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)
- Maximum Design Pressures:** See Fastening Pattern. (See General Limitation #7)



Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: Min. 18-22 ga., Type B, Grade 80 steel deck is fastened to 0.25 in. thick structural supports, spaced 6' 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.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type D(2): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

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 insulation listed in Table 2 Maximum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan Fastened or Sikaplan Fastened Feltback attached to deck as specified below with Sarnarail Polymer Batten Strips.

Fastening #1: Sikaplan Fastener #15 spaced 6" o.c. through batten strip spaced maximum 144" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 12" and securing with two Sarnafastener XP or Sikaplan Fastener #15 spaced 6" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on the inside edge.

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



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 18-22 ga., A1008 SS Grade 80 or A653 Grade 80 steel deck is fastened to 0.25 in. thick structural supports, spaced 6' 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.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type D(3): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

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 insulation listed in Table 2: Maximum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or S327 Textured attached to deck as specified below with Sarnarail Polymer Batten Strips.

Fastening #1: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners spaced 18" o.c. through batten strip spaced maximum 73.25" o.c. within the 5.5" wide side lap. Batten strip splice joints are made by overlapping the batten 24" and securing with two Sarnafil MAXLoad, Sarnafastener MAXLoad screws spaced 18" o.c. Laps are sealed with at 1.5" wide heat weld on the outside edge and 1.0" wide heat weld on the inside edge.
Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Maximum Design Pressures: See Fastening Pattern. (See General Limitation #7)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi concrete or concrete plank or min. 18 ga., Type B, Grade 80 steel deck is 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 30 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type D(4): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

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 insulation listed in Table 2: Maximum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327, S327 Textured or S327 (10 ft) attached to deck as specified below.
Fastening #1: Sarnafasteners-XP fasteners with Sarnadisc-XPN plates spaced 6" o.c. within 5.5" wide laps spaced 114.5" o.c. Laps are sealed with a 1.75" wide heat weld on outside edge of lap.
Maximum Design Pressures: -60.0 psf. (See General Limitation #7)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi concrete or concrete plank or min. 18 ga., Type B, Grade 80 steel deck is 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 30 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type D(5): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

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 insulation listed in Table 2: Maximum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan Fastened or Sikaplan Fastened Feltback attached to deck as specified below.

Fastening #1: Sikaplan Fastener #15 with Sarnadisc-XPB plates spaced 6" o.c. within 5.5" wide laps spaced 14.5" o.c. Laps are sealed with a 1.75" wide heat weld on outside edge of lap.

Maximum Design Pressures: -60.0 psf. (See General Limitation #7)



Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-20 ga., Type B, Grade 80 steel deck is 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.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type D(6): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8” Type X Gypsum, 1/4” DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4’ and not less than four fasteners for any board with any greater dimension than 4’.

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 insulation listed in Table 2: Maximum 1.0” thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327, S327 Textured or S327 (10 ft) attached to deck as specified below.

Fastening #1: *(Steel or Concrete Deck Only; With S327 (10 ft))* Sarnafasteners-XP fasteners and Sarnadisc XPN plates spaced 6” o.c. within 5.5” wide side laps spaced maximum 114.5” o.c. Laps are sealed with a minimum 0.5” wide outside edge heat weld.
Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Fastening #2: *(Steel Deck Only; With S327 (10 ft))* Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad Plates spaced 6” o.c. within 7” wide side laps spaced maximum 113” o.c. Laps are sealed with a minimum 0.875” wide outside edge heat weld.
Maximum Design Pressure -60.0 psf (See General Limitation #7)

Maximum Design Pressures: See Fastening Pattern. (See General Limitation #7)



Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-20 ga., Type B, Grade 80 steel deck is 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.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type D(7): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8” Type X Gypsum, 1/4” DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4’ and not less than four fasteners for any board with any greater dimension than 4’.

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 insulation listed in Table 2: Maximum 1.0” thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan Fastened or Sikaplan Fastened Feltback attached to deck as specified below.

Fastening #1: Sikaplan Fastener #15 fasteners and Sarnadisc XPN plates spaced 6” o.c. within 5.5” wide side laps spaced maximum 114.5” o.c. Laps are sealed with a minimum 0.5” wide outside edge heat weld.

Maximum Design Pressures: -45.0. (See General Limitation #7)



Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-20 ga., Type B, Grade 80 steel deck is 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 30 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type D(8): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

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 insulation listed in Table 2: Maximum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327, S327 Textured or S327 (10 ft) attached to deck as specified below.

Fastening #1: *(Steel Deck Only)* Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and 3/4" wide Sarnarail Polymer Batten Strip spaced 12" o.c. within 5.5" wide side laps spaced maximum 114.5" o.c. Batten Strip is lapped 14" within lap to provide a minimum 2 screw securement in lap. Laps are sealed with a minimum 1.25" wide outside edge heat weld and minimum 0.75" wide inside edge heat weld.
Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Fastening #2: *(Steel or Concrete Deck Only)* Sarnafasteners-XP fasteners and 3/4" wide Sarnarail Polymer Batten Strip spaced 6" o.c. within 5.5" wide side laps spaced maximum 114.5" o.c. Batten Strip is lapped 8" within lap to provide a minimum 2 screw securement in lap. Laps are sealed with a minimum 1.25" wide outside edge heat weld and minimum 0.75" wide inside edge heat weld.
Maximum Design Pressure -60.0 psf. (See General Limitation #7)



Fastening #3:

(Steel Deck Only) Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and 3/4" wide Sarnarail Polymer Batten Strip spaced 6" o.c. within 5.5" wide side laps spaced maximum 114.5" o.c. Batten Strip is lapped 8" within lap to provide a minimum 2 screw securement in lap. Laps are sealed with a minimum 1.25" wide outside edge heat weld and minimum 0.75" wide inside edge heat weld.

Maximum Design Pressure -67.5 psf. (See General Limitation #7)

Maximum Design Pressures:

See Fastening Pattern. (See General Limitation #7)



Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-20 ga., Type B, Grade 80 steel deck is 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 30 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type D(9): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8” Type X Gypsum, 1/4” DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4’ and not less than four fasteners for any board with any greater dimension than 4’.

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 insulation listed in Table 2: Maximum 1.0” thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sikaplan Fastened or Sikaplan Fastened Feltback attached to deck as specified below.

Fastening #1: Sikaplan Fastener #15 and 3/4” wide Sarnarail Polymer Batten Strip spaced 6” o.c. within 5.5” wide side laps spaced maximum 114.5” o.c. Batten Strip is lapped 8” within lap to provide a minimum 2 screw securement in lap. Laps are sealed with a minimum 1.25” wide outside edge heat weld and minimum 0.75” wide inside edge heat weld.

Maximum Design Pressures: -60.0 psf. (See General Limitation #7)



Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: Min.18 ga., Type B, Grade 80 steel deck is fastened to 0.25 in. thick structural supports, spaced 6' o.c. with Traxx 5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx 1 fasteners spaced 30 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

System Type D(10): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

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 insulation listed in Table 2: Maximum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 (10 ft), Sikaplan Fastened or Sikaplan Fastened Feltback attached to deck as specified below.

Fastening #1: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and 3/4" wide Sarnarail Polymer Batten Strip spaced 6" o.c. within 5.5" wide side laps spaced maximum 114.5" o.c. Batten Strip is lapped 8" within lap to provide a minimum 2 screw securement in lap. Laps are sealed with a minimum 1.25" wide outside edge heat weld and minimum 0.75" wide inside edge heat weld.

Maximum Design Pressures: -75.0 psf (See General Limitation #7)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 2500 psi concrete or concrete plank or min. 18-22 ga., Type B, Grade 80 steel deck fastened to 0.25 in. thick structural supports, spaced 6' o.c. with Traxx/5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx/1 fasteners spaced 30 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type D(11): Membrane attached over preliminary fastened insulation.

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

Vapor Barrier (Optional): Sarnavap-10 or a FM approved vapor barrier applied directly to the deck or over the base insulation layer.
Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

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 insulation listed in Table 2: Maximum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or S327 Textured attached to deck as specified below.
Fastening #1: Sarnafasteners-XP fasteners and Sarnarail Polymer Batten Strip spaced 12" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)
Fastening #2: Sarnafasteners-XP fasteners and Sarnadisc XPN plates spaced 12" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.
Maximum Design Pressure -60.0 psf. (See General Limitation #7)



Fastening #3:

Sarnafasteners-XP fasteners and Sarnadisc XPN plates spaced 6" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.
Maximum Design Pressure -90.0 psf. (See General Limitation #7)

Maximum Design Pressures:

See Fastening Pattern. (See General Limitation #7)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 18-22 ga., Type B, Grade 80 steel deck fastened to 0.25 in. thick structural supports, spaced 6' o.c. with Traxx/5 fasteners spaced 6 in. o.c. and with side laps fastened with Traxx/1 fasteners spaced 30 in. o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type D(12): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

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 insulation listed in Table 2: Maximum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or S327 Textured attached to deck as specified below.

Fastening #1: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip spaced 24" o.c. within 5.5" wide side laps spaced maximum 54" o.c. Laps are sealed with a minimum 1" wide outside heat weld and a minimum 5/8" wide inside heat weld.
Maximum Design Pressure -45.0 psf. (See General Limitation #7)

Fastening #2: Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad Plates spaced 24" o.c. within 6.5" wide side laps spaced maximum 53" o.c. Laps are sealed with a minimum 1.6" wide outside heat weld.
Maximum Design Pressure -45.0 psf. (See General Limitation #7)



- Fastening #3:** Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad Plates spaced 12” o.c. within 7” wide side laps spaced maximum 113” o.c. Laps are sealed with a minimum 1.5” wide outside heat weld.
Maximum Design Pressure -45.0 psf. (See General Limitation #7)
- Fastening #4:** Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip spaced 18” o.c. within 5.5” wide side laps spaced maximum 54” o.c. Laps are sealed with a minimum 1” wide outside heat weld and a minimum 5/8” wide inside heat weld.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)
- Fastening #5:** Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad Plates spaced 18” o.c. within 6.5” wide side laps spaced maximum 53” o.c. Laps are sealed with a minimum 1.6” wide outside heat weld.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)
- Fastening #6:** Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad Plates spaced 12” o.c. within 6.5” wide side laps spaced maximum 53” o.c. Laps are sealed with a minimum 1.6” wide outside heat weld.
Maximum Design Pressure -60.0 psf. (See General Limitation #7)
- Fastening #7:** Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip spaced 12” o.c. within 5.5” wide side laps spaced maximum 54” o.c. Laps are sealed with a minimum 1” wide outside heat weld and a minimum 5/8” wide inside heat weld.
Maximum Design Pressure -67.5 psf. (See General Limitation #7)
- Fastening #8:** Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnadisc MAXLoad Plates spaced 6” o.c. within 6.5” wide side laps spaced maximum 53” o.c. Laps are sealed with a minimum 1.6” wide outside heat weld.
Maximum Design Pressure -105.0 psf. (See General Limitation #7)
- Fastening #9:** Sarnafil MAXLoad, Sarnafastener MAXLoad fasteners and Sarnarail Polymer Batten Strip spaced 6” o.c. within 5.5” wide side laps spaced maximum 54” o.c. Laps are sealed with a minimum 1” wide outside heat weld and a minimum 5/8” wide inside heat weld.
Maximum Design Pressure -112.5 psf. (See General Limitation #7)
- Maximum Design Pressures:** See Fastening Pattern. (See General Limitation #7)



Membrane Type: Single Ply, PVC
Deck Type 7I: Recover, Insulated
Deck Description: Min. 22 ga., Type B, Grade 80 steel deck is fastened to 0.25 in. thick structural supports, spaced 6' o.c. * The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 338 lbf when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS 105.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type D(13): Membrane attached over preliminary fastened insulation.

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

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

Fire Barrier (Optional): Minimum 5/8" Type X Gypsum, 1/4" DensDeck, secured with Miami-Dade County approved insulation fasteners at not less than 2 fasteners for a board with no dimension greater than 4' and not less than four fasteners for any board with any greater dimension than 4'.

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 (a), Sarnatherm-25 PSI, ACFoam-II, ACFoam-III Minimum 1.5" thick or tapered	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sarnafil S327 or S327 Textured attached to deck as specified below.

Fastening #1: Six Sarnabars spaced 36" o.c. maximum, fastened with Sarnafasteners-XP spaced 6" o.c. through the field of the membrane and covered with a 7" minimum width cover strip with minimum 1.5" wide welds on each side.

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



Membrane Type: Single Ply, PVC
Deck Type 7: Recover, Non-Insulated
Deck Description: Concrete/Min 22 ga. 33 ksi. Steel
System Type F(1): 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.

Membrane: Sarnafil S327 Felt, G410 Felt, G410 Felt Textured adhered with Sarnacol AD Feltback Membrane Adhesive or Sarnacol OM Feltback Membrane Adhesive applied in four rows of 0.5” wide ribbons spaced 12” o.c. and rolled with a weighted roller. Minimum 3” wide side lap is sealed with a 1.5” wide heat weld.

Maximum Design Pressure: -120.0 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