MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

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 Waterproofing Systems

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

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

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

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

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

This NOA revises NOA No. 16-0706.07 and consists of pages 1 through 21.
The submitted documentation was reviewed by Alex Tigera.

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Waterproofing
Material: PVC
Deck Type: Concrete
Maximum Design Pressure: -430 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
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 D 4434	Fiberglass reinforced PVC roofing membrane with a non-woven felt backing.
G410 Felt Textured	48, 60, 72 and 80 mils	ASTM D 4434	Fiberglass reinforced PVC roofing membrane with a non-woven felt backing.
S327	48, 60, 72 and 80 mils	ASTM D 4434	Polyester reinforced PVC roofing membrane.
S327 (10 ft)	48, 60, 72 and 80 mils	ASTM D 4434	Polyester reinforced PVC roofing membrane.
S327 Felt	48, 60, 72 and 80 mils	ASTM D 4434	Polyester reinforced PVC roofing membrane with a non-woven felt backing.
G476 SA	60 mils	ASTM D 4434	Composite Reinforced thermoplastic Waterproofing Membrane, **not to be exposed to weathering.**
PVC Protection Layer	Various	Proprietary	Fiberglass Reinforced PVC.
Surface Conditioner WB	5 gallons	Proprietary	Low solids, water-based primer.
Sarnacol 2170	5 gallons	Proprietary	Solvent based bonding adhesive.
Sarnacol 2170 VC	Various	Proprietary	Solvent-based, VOC compliant adhesive.
Sarnacol 2121	5 gallons	Proprietary	Water-based bonding adhesive.
Sarnacol 2163	1500 ml cartridge	Proprietary	Foamable Adhesive.
Sarnacol AD Board Adhesive	5 gallons	Proprietary	Two-component foamable polyurethane insulation adhesive.
Sarnacol AD Feltback Membrane Adhesive	5 gallons	Proprietary	Two-component foamable polyurethane membrane adhesive.
Drainage Composite 3811R	Various	Proprietary	Prefabricated drainage composite.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville Corp.
ENRGY 3 25 PSI	Polyisocyanurate foam insulation	Johns Manville Corp.
Sarnatherm (a)	Polyisocyanurate foam insulation	Sika Sarnafil, A Division of Sika Corp.
Sarnatherm 25 psi	Polyisocyanurate foam insulation	Sika Sarnafil, A Division of Sika Corp.
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
Ultra-Max	Polyisocyanurate roof insulation	RMax Operating, LLC
Sarnatherm	Polyisocyanurate roof insulation	Sika Sarnafil, A Division of Sika Corp.
H-Shield	Polyisocyanurate roof insulation	Hunter Panels, LLC
DensDeck	Water resistant gypsum board	Georgia Pacific Gypsum LLC
DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC
FOAMULAR 600	Extruded Polystyrene Rigid Foam Insulation	Owens Corning Foam Insulation, LLC

APPROVED FASTENERS / ADHESIVES:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Millennium One Step Foamable Adhesive	Polyurethane two component high rise insulation adhesive	1.5 liters	H.B. Fuller Company
2.	Millennium PG-1 Low Viscosity Insulation Adhesive	Polyurethane two component low rise insulation adhesive	5-50 gallons	H.B. Fuller Company

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Factory Mutual Research Corp.	2X2A5.AM	FM 4470	07/31/94
	OB9A0.AM	FM 4470	10/22/96
	4B3A2.AM	FM 4470	06/19/97
	IZ5A6.AM	FM 4470	07/18/97
	2B8A4.AM	FM 4470	07/02/97
	3001396	FM 4470	05/28/99
	3014751	FM 4450	08/27/03
	3024311	FM 4470	11/01/06
	3039809	FM 4470	07/06/11
	3041256	FM 4470	07/12/11
	3043459	FM 4470	05/11/12
	3041756	FM 4470	08/16/12
IRT of S. Florida	99023	TAS 114-D	06/30/99
	99024	TAS 114-D	06/30/99
	99025	TAS 114-D	06/30/99
	99026	TAS 114-D	06/30/99
Trinity|ERD	S42480.08.12	ASTM D2196/D2369	08/20/12
	S42480.08.12	Physical Properties	08/20/12
	S39440.01.12-R1	ASTM D4434	01/25/13
	S44790.06.13	ASTM D4434	06/05/13
	S44990.08.13	Physical Properties	08/29/13
	SIKA-SC7895.01.15	ASTM D2196/D2369	01/12/15
	SIKA-SC7935.05.15-R2	ASTM D4434	04/28/16
	SIKA-SC11795.08.16	FM 4474/TAS 114-D	08/22/16
	SIKA-SC14530.07.17	Physical Properties	07/10/17
Underwriters Laboratories, Inc.	R8992	UL 790	03/20/13
	R8811	UL 723	12/20/13
RADCO	RAD-5341	ASTM C578	02/06/14
Atlantic & Caribbean Roof Consulting, LLC.	ACRC 11-031-R1	TAS 114	05/26/11
PRI Construction Materials Technologies LLC	SARN-065-02-01	TAS 114-D	03/31/14

APPROVED ASSEMBLIES

Membrane: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank.

System Type A(1): Insulation Adhered to deck or optional vapor retarder; membrane subsequently adhered to insulation layer below the protection course and surfacing for Balcony/Plaza Decks.

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

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

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ACFoam-III, Sarnatherm (a), Sarnatherm 25 PSI, Ultra-Max, ENRGY 3, H-Shield, Sarnatherm Minimum 1.5" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck, DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Millennium One Step Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Sarnacol 2163 or Sarnacol AD Board 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 or S327 (10 ft) adhered to the insulation layers as specified below.

Attachment #1: Sarnafil G410, G410 Textured, S327 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 #2: Sarnafil G410, G410 Textured, S327 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 no 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: (*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 #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: -157.5 psf; with asphaltic vapor barrier (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 0.75ga./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 no vapor barrier (See General Limitation #9.)

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required. Verify that the structure can support the dead load weight of a watertight test before proceeding.

Protection Course:	PVC Protection Layer, protection layer shall be adhered with Sarnacol 2170 Adhesive roller applied at a rate of 1 gal./sq.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Surfacing:	Minimum 12" x 12" x 2" Concrete pavers (ASTM C936) adhered to protection course with Sarnacol 2121 Adhesive applied at rate of 2.25 gal./sq. using a ¼" notched squeegee.
Maximum Design Pressure:	See Attachment. (See General Limitation #9.)

Membrane:	Single Ply, PVC
Deck Type 3I:	Concrete, Insulated
Deck Description:	Min. 2500 psi structural concrete or concrete plank.
System Type A(2):	Insulation Adhered to deck or optional vapor retarder; membrane subsequently adhered to insulation layer below protection/drainage layer and surfacing for Garage/Plaza Decks.

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

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

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, ACFoam-III, Sarnatherm (a), Sarnatherm 25 PSI, Ultra-Max, ENRGY 3, H-Shield, Sarnatherm Minimum 1.5" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, DensDeck Prime Minimum 0.25" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ½" to ¾" wide beads 12" o.c. of Millennium One Step Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Sarnacol 2163 or Sarnacol AD Board 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 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 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.

Attachment #2: (*With DensDeck Prime*) Sarnafil G410, G410 Textured, S327 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.

Attachment #3: Sarnafil G410, G410 Textured, S327 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.

Attachment #4: Sarnafil G410, G410 Textured, S327 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.

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.

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.

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.

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.

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.

Attachment #6: 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 0.75ga./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.

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required. Verify that the structure can support the dead load weight of a watertight test before proceeding.

Protection / Drainage Layer: PVC Protection Layer and/or Drainage Composite 3811R, loose laid over the membrane.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.

Surfacing: Structural Concrete Slab, minimum 2500 psi shall be designed to comply with applicable Building Code requirements.

Maximum Design Pressure: N/A

Membrane:	Single Ply, PVC
Deck Type 3I:	Concrete, Insulated
Deck Description:	Min. 2500 psi structural concrete or concrete plank.
System Type A(3):	Membrane adhered directly to primed concrete deck. Protection course adhered to membrane. Insulation adhered to protection course below the surfacing for Balcony/Plaza Deck.

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.

Primer:	Concrete deck is primed with Surface Conditioner WB at a rate of 800-1000 sf/ gal. and allowed to dry completely.
Membrane:	Sarnafil G476 SA membrane self-adhered to the treated concrete deck then rolled with a weighted roller. **Sarnafil G476 SA shall not be left exposed.**
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required. Verify that the structure can support the dead load weight of a watertight test before proceeding.
Protection Course:	PVC Protection Layer adhered to the Sarnafil G476 SA membrane with Sarnacol 2170 adhesive. The Sarnacol 2170 is applied to the G476 SA membrane at a rate of 0.75 gal./100 sf. and allowed to dry completely. The back of the PVC Protection layer is then coated with Sarnacol 2170 at a rate of 0.5 gal. /100 sf. When the adhesive on the back of the PVC Protection Layer is tacky (producing strings when touched with a dry finger) it is applied to the previously coated G476 SA mating the two adhesive surfaces. The PVC Protection Layer is then rolled with a weighted roller. The top surface of the PVC Protection Layer is primed with Sarnacol 2170 at a rate of 0.5 gal./ 100 sf.

One or more layers of any of the following insulations:

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
FOAMULAR 600 Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
FOAMULAR 600 Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation layers shall be adhered in ½" to ¾" wide beads spaced maximum 6" o.c. of Millennium One Step Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Sarnacol 2163 or Sarnacol AD Board Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.

Surfacing: 2" x 23.5" x 23.5" concrete pavers (ASTM C936) adhered to FOAMULAR 600 with Millennium One Step Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Sarnacol 2163 or Sarnacol AD Board Adhesive adhesive applied in 1/2"-3/4" wide beads spaced 6" o.c.

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

Membrane:	Single Ply, PVC
Deck Type 3I:	Concrete, Insulated
Deck Description:	Min. 2500 psi structural concrete or concrete plank.
System Type A(4):	Membrane adhered directly to primed concrete deck. Insulation and protection/drainage layer loose laid below the surfacing for Garage/Plaza Deck.

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.

Primer:	Concrete deck is primed with Surface Conditioner WB at a rate of 800-1000 sf/ gal. and allowed to dry completely.
Membrane:	Sarnafil G476 SA membrane self-adhered to the treated concrete deck then rolled with a weighted roller. **Sarnafil G476 SA shall not be left exposed.**
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required. Verify that the structure can support the dead load weight of a watertight test before proceeding.
Protection / Drainage Layer:	PVC Protection Layer and/or Drainage Composite 3811R, loose laid over the membrane.

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
FOAMULAR 600 Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
FOAMULAR 600 Minimum 1.5" thick	**N/A**	**N/A**

Note: Insulation layer shall be loose laid over drainage layer. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Surfacing:	Structural Concrete Slab, minimum 2500 psi shall be designed to comply with applicable Building Code requirements.
Maximum Design Pressure:	N/A

Membrane: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank.

System Type A(5): Membrane adhered directly to primed concrete deck. Protection course adhered to membrane. Insulation adhered to protection course below the surfacing for Planters.

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.

Primer: Concrete deck is primed with Surface Conditioner WB at a rate of 800-1000 sf/ gal. and allowed to dry completely.

Membrane: Sarnafil G476 SA membrane self-adhered to the treated concrete deck then rolled with a weighted roller. **Sarnafil G476 SA shall not be left exposed.**

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required. Verify that the structure can support the dead load weight of a watertight test before proceeding.

Protection Course: Adhere PVC Protection Layer over G476 SA membrane with Sarnacol 2170 Adhesive roller applied at a rate of 1 gal./sq.

Primer: Apply Sarnacol 2170 Adhesive roller applied onto the PVC Protection Layer as an insulation primer at a rate of .5 gal./sq.

Base Insulation Layer:	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
FOAMULAR 600 Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional):	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
FOAMULAR 600 Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation layers shall be adhered in ½" to ¾" wide beads spaced maximum 6" o.c. of Millennium One Step Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Sarnacol 2163 or Sarnacol AD Board Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation Layer shall not be left exposed to weathering.

Inspection: Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.

Drainage Layer: Drainage Composite 3811R, loose laid over the FOAMULAR 600 insulation.

Surfacing: Backfill the planter with soil medium to a minimum depth of 24 inches.

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

Membrane:	Single Ply, PVC
Deck Type 3:	Concrete, Insulated
Deck Description:	Min. 2500 psi structural concrete or concrete plank.
System Type F(1):	Membrane adhered directly to concrete deck. Protection course adhered to membrane below the surfacing for Balcony/Plaza Decks.

All General and System Limitations shall 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 G410 Felt membrane shall be adhered to the concrete deck with Sarnacol 2121 adhesive roller applied at a rate of 0.75 gal./sq.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required. Verify that the structure can support the dead load weight of a watertight test before proceeding.
Protection Course:	Apply over membrane Sarnacol 2170 Adhesive roller applied at a rate of 1 to 1.25 gal./sq. and allowed to dry as primer. Followed with PVC Protection Layer, protection course is additionally adhered with Sarnacol 2170 Adhesive roller applied at a rate of 1 gal./sq. Top side of protection layer shall be cover with a film of Sarnacol 2121 Adhesive applied at rate of 2.25 gal./sq. using a ¼" notched squeegee.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Surfacing:	12" x 12" x 1" exterior grade saltillo clay tiles set into ½" thick bed of exterior grade thinset.
Maximum Design Pressure:	-112.5 psf. (See General Limitation #9.)

Membrane:	Single Ply, PVC
Deck Type 3:	Concrete, Non-Insulated
Deck Description:	Min. 2500 psi structural concrete or concrete plank.
System Type F(2):	Membrane adhered directly to primed concrete deck. Drainage layer is loose laid below the surfacing for Planters.

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.

Primer:	Concrete deck is primed with Surface Conditioner WB at a rate of 0.75 gal./sq. and allowed to dry completely.
Membrane:	Sarnafil G476 SA membrane self-adhered to the treated concrete deck then rolled with a weighted roller. **Sarnafil G476 SA shall not be left exposed.**
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required. Verify that the structure can support the dead load weight of a watertight test before proceeding.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Drainage Layer:	Drainage Composite 3811R, loose laid.
Surfacing:	Backfill the planter with soil medium to a minimum depth of 24 inches.
Maximum Design Pressure:	-202.5 psf. (See General Limitation #9.)

Membrane:	Single Ply, PVC
Deck Type 3:	Concrete, Non-Insulated
Deck Description:	Min. 2500 psi structural concrete or concrete plank.
System Type F(3):	Membrane adhered directly to concrete deck. Protection course adhered to membrane below the surfacing for Garage/Plaza Decks.

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:	Apply Sarnacol 2170 Adhesive to the concrete deck roller applied at a rate of 1 to 1.25 gal./sq. and allowed to dry as primer. Followed with Sarnafil G410 Felt roof membrane adhered with Sarnacol 2170 Adhesive additionally applied at a rate of 1 gal./sq.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required. Verify that the structure can support the dead load weight of a watertight test before proceeding.
Protection Course:	PVC Protection Layer, protection layer shall be adhered with Sarnacol 2170 Adhesive roller applied at a rate of 1 gal./sq. Top side of protection layer shall be cover with a film of Sarnacol 2121 Adhesive applied at rate of 2.25 gal./sq. using a ¼" notched squeegee.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Surfacing:	Poured in place minimum 2" thick reinforced concrete slab.
Maximum Design Pressure:	-427.5 psf. (See General Limitation #9.)

Membrane:	Single Ply, PVC
Deck Type 3:	Concrete, Non-Insulated
Deck Description:	Min. 2500 psi structural concrete or concrete plank.
System Type F(4):	Membrane adhered directly to primed concrete deck. Protection course adhered to membrane below the surfacing for Balcony/Plaza Decks.

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.

Primer:	Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry.
Membrane:	Apply Sarnacol 2170 Adhesive to the primed concrete deck roller applied at a rate of 1 to 1.25 gal./sq. and allowed to dry as primer. Followed with Sarnafil G410 Felt roof membrane adhered with Sarnacol 2170 Adhesive additionally applied at a rate of 1 gal./sq.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required. Verify that the structure can support the dead load weight of a watertight test before proceeding.
Protection Course:	Apply over membrane Sarnacol 2170 Adhesive roller applied at a rate of 1 to 1.25 gal./sq. and allowed to dry as primer. Followed with PVC Protection Layer, protection course is adhered with Sarnacol 2170 Adhesive additionally roller applied at a rate of 1 gal./sq.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Surfacing:	Minimum 12” x 12” x 2” Concrete pavers (ASTM C936) adhered to protection course with Sarnacol 2121 Adhesive applied at rate of 2.25 gal./sq. using a ¼” notched squeegee.
Maximum Design Pressure:	-430 psf. (See General Limitation #9.)

Membrane:	Single Ply, PVC
Deck Type 3:	Concrete, Non-Insulated
Deck Description:	Min. 2500 psi structural concrete or concrete plank.
System Type F(5):	Membrane adhered directly to primed concrete deck. Drainage layer is loose laid below the surfacing for Garage/Plaza Decks.

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.

Primer:	Concrete deck is primed with Surface Conditioner WB at a rate of 800-1000 sf/ gal. and allowed to dry completely.
Membrane:	Sarnafil G476 SA membrane self-adhered to the treated concrete deck then rolled with a weighted roller. **Sarnafil G476 SA shall not be left exposed.**
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required. Verify that the structure can support the dead load weight of a watertight test before proceeding.
Drainage Layer:	Drainage Composite 3811R, loose laid.
Inspection:	Contractor and a representative of the membrane manufacturer shall inspect the waterproofing assembly and notify the contractor of any defects. Inspection must take place prior to installation of any overlay insulation, protection pads, drainage boards and traffic surfacing. All defects observed shall be corrected.
Surfacing:	Structural Concrete Slab, minimum 2500 psi shall be designed to comply with applicable Building Code requirements.
Maximum Design Pressure:	N/A

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. Required integrity flood testing shall be provided to the Building Official for review at time of final inspection.
3. All work shall be performed by a Contractor licensed to do roofing/waterproofing and be a Manufacturer Trained 'Qualified Applicator' approved by Sika Sarnafil.
4. Flashings shall be installed according to the manufacturer's published standard details and shall be submitted to the Building Official for review.
5. Contractor shall submit to the Building Official for review the system specifications and details. Submission of these documents, as well as the proper application and installation of all materials shall be the sole responsibility of the contractor.
6. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and the wind load requirements of applicable Building Code.
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. 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. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
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