MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Polyglass USA, Inc.
150 Lyon Drive
Fernley, NV 89408

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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: Polyglass Self-Adhered Roof System Over Lightweight Concrete Decks

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

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

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

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

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

This NOA consists of pages 1 through 14.
The submitted documentation was reviewed by Jorge L. Acebo.

PRODUCT CONTROL ACCEPTED

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Materials	SBS/APP/TPO
Deck Type:	Lightweight Insulating Concrete
Maximum Design Pressure	-240 psf
Fire Classification:	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
Elastobase V	65' 2" x 3' 3-3/8"	ASTM D 4601	SBS modified asphalt coated fiberglass reinforced base sheet.
Elastobase P	5' 2" x 3' 3-3/8"	ASTM D6164	SBS modified asphalt coated polyester reinforced base sheet.
Elastoflex SA V Vent	32' 6" x 3' 3-3/8"	ASTM D 6163	Partially self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a smooth top surface.
Elastoflex SA V FR	32' 6" x 3' 3-3/8"	ASTM D 6163	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a smooth top surface.
Elastoflex SA V	32' 6" x 3' 3-$^3/_8$"	ASTM D 6163	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a smooth top surface.
Elastoflex SA P FR	32' 6" x 3' 3-3/8"	ASTM D 6164	Self-adhered, polyester reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
Elastoflex SA P	32' 6" x 3' 3-3/8"	ASTM D 6164	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
Polyflex SA P	32' 6" x 3' 3-$^3/_8$"	ASTM D 6222	Self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.
Polyflex SA P FR	32' 6" x 3' 3-$^3/_8$"	ASTM D 6222	Self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Polytherm, POLYTHERM A1	Polyisocyanurate foam insulation	Polyglass USA, Inc.
Polytherm Composite	Polyisocyanurate/perlite composite insulation.	Polyglass USA, Inc.
ACFoam II	Polyisocyanurate foam insulation	Atlas Energy Products
ACFoam III	Polyisocyanurate foam insulation	Atlas Energy Products
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Perlite Insulation	Perlite insulation board	Generic
Dens-Deck	Gypsum insulation board	Georgia-Pacific
Armor Board High Density Wood Fiberboard	Wood fiber insulation board	Honeywell Int'l. Inc.
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
H-Shield CG	Polyisocyanurate/perlite composite insulation	Hunter Panels, LLC
Fesco Board	Expanded mineral fiber	Johns Manville Corp.
Structodek, Structodek FS	Wood fiber board	Masonitec
Multi-Max FA	Polyisocyanurate foam insulation	RMax, Inc.
Fiberbond	Type-x Gypsum	United States Gypsum Co.
Securock	Fiber reinforced coverboard	USG

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Dekfast Fasteners #15	Insulation fastener for wood, steel and concrete decks		SFS Intec.
2.	Dekfast 2 ½" HS membrane Plate	Galvalume stress plate.	2.5" round	SFS Intec
3.	Lite Weight Concrete Fasteners	Insulation fastener for wood, steel and concrete decks.		OMG
4.	Lite Weight Concrete Plate	Galvalume stress plate.	2.7" round	OMG
5.	Twin Loc-Nails	Pre-assembled Galvalume Base Sheet Fastener and stress plate.	Various	ES Products, Inc.
6.	FM-260 Base Ply Fastener	Pre-assembled Galvalume Base Sheet Fastener and stress plate.	Various	ES Products, Inc.
7.	FM-245 Base Ply Fastener	Pre-assembled Galvalume Base Sheet Fastener and stress plate.	Various	ES Products, Inc.
8.	FM-90 Base Ply Fastener	Pre-assembled Galvalume Base Sheet Fastener and stress plate	Various	ES Products, Inc.
9.	Roofgrip	Insulation fastener for wood, steel, and concrete decks.	Various	OMG

EVIDENCE SUBMITTED:

Test Agency	Test Name/Report	Report No.	Date
Factory Mutual Research Corporation	4470	J.I. 2W7A7.AM	08.04.94
	4470	J.I. 3001334	02.15.00
	4470	J.I. 3000857	01.12.00
	4470	J.I. 3004091	01.12.00
	4470	3012321	07.29.07
	4450	3014751	08.27.03
	4450	3019317	06.30.04
	4470	3014692	08.05.03
Exterior Research & Design, LLC.	TAS 114	11752.09.99-1	02.08.00
		02764.09.05	09.09.05
		020843.02.05-1	02.10.05
		02762.03.05	03.30.05
	TAS 117(B)-ASTM D903	020841.06.04	06.02.04
Trintiy | ERD	TAS 114	P1734.07.06-R1	02.27.07
		02843.07.07	07.23.07
		P1738.02.07	02.05.07
		P1739.01.07	01.23.07

APPROVED ASSEMBLIES:

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Approved Cellular Lightweight Concrete

System Type A(1): Anchor sheet mechanically fastened; one or more layers of insulation fully adhered with approved asphalt.

All General and System limitations apply.

Anchor Sheet: One ply of GAFGLAS #75 fastened to the deck as described below:

Fastening: **Attach anchor sheet using OMG Lite Weight Concrete Fasteners spaced 7" o.c. in a 4" lap and 7" o.c. in two equally spaced staggered rows in the center of the sheet.**

Base Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam II, Multi-Max FA, Polytherm A1, H-Shield, Tapered H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the anchor sheet in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs. Please refer to RAS 117 for insulation attachment. Insulations 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 may be used as a top layer placed with the polyisocyanurate face down.

Ply Sheet: One or more plies of Elastoflex SA V or Elastoflex SA V FR self-adhered.

Membrane: One ply of Elastoflex SA P, Elastoflex SA P FR, Polyflex SA P or Polyflex SA P FR self adhered.

Surfacing: (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs/sq or 300 lbs/sq, respectively, in a flood coat of approved asphalt at 60 lbs/sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

Maximum Design Pressure: -45 psf; (See general limitation #7.)

Deck Type 4I: Lightweight Concrete

Deck Description: Elastizell LWIC over structural concrete; minimum 200psi

System Type A(2): All layers of insulation adhered to LWIC. Membrane is subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
AC Foam II, H-Shield, ISO 95+GL Minimum 1.5" thick	**N/A**	**N/A**
Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Dens-Deck, Dens-Deck Prime Minimum ¼" thick	**N/A**	**N/A**

Note: Apply insulation in Olybond 500 Adhesive in continuous ¾" to 1" wide beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with Olybond 500 Adhesive in continuous ¾" to 1" wide beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Ply Sheet: One or more plies of Elastoflex SA V or Elastoflex SA V FR self-adhered.

Membrane: One ply of Elastoflex SA P, Elastoflex SA P FR, Polyflex SA P or Polyflex SA P FR self adhered.

Surfacing: (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs/sq or 300 lbs/sq, respectively, in a flood coat of approved asphalt at 60 lbs/sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

Maximum Design Pressure: -225.0 psf (See General Limitation #9)

Deck Type 4I: Lightweight Concrete

Deck Description: Range II Elastizell LWIC over structural concrete; minimum 200psi

System Type A(3): All layers of insulation adhered to LWIC deck. Membrane is subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ENRGY -3		
Minimum 1.5" thick	**N/A**	**N/A**
H-Shield Tapered		
	N/A	**N/A**

Note: Apply insulation in Olybond 500 Adhesive in continuous ¾" to 1" wide beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with Olybond 500 Adhesive in continuous ¾" to 1" wide beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Ply Sheet: One or more plies of Elastoflex SA V or Elastoflex SA V FR self-adhered.

Membrane: One ply of Elastoflex SA P, Elastoflex SA P FR, Polyflex SA P or Polyflex SA P FR self adhered.

Surfacing: (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs/sq or 300 lbs/sq, respectively, in a flood coat of approved asphalt at 60 lbs/sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

Maximum Design Pressure: -90.0 psf (See General Limitation #9)

Deck Type 4I: Lightweight Concrete

Deck Description: Celcore LWIC over structural concrete; minimum 300psi

System Type A(4): All layers of insulation adhered to LWIC deck. Membrane is subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
AC Foam II, AC Foam III, ENRGY -3, H-Shield, H-Shield C, Multi-Max FA, ISO 95+GL Minimum 1.5" thick	**N/A**	**N/A**

Note: Apply insulation in TITESET in continuous 3" to 3-1/2" wide beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with TITESET in continuous 3" to 3-1/2" wide beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Ply Sheet: One or more plies of Elastoflex SA V or Elastoflex SA V FR self-adhered.

Membrane: One ply of Elastoflex SA P, Elastoflex SA P FR, Polyflex SA P or Polyflex SA P FR self adhered.

Surfacing: (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs/sq or 300 lbs/sq, respectively, in a flood coat of approved asphalt at 60 lbs/sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

Maximum Design Pressure: -222.5 psf (See General Limitation #9)

Deck Type 4I: Lightweight Concrete

Deck Description: Elastizell LWIC over structural concrete; minimum 300psi

System Type A(5): All layers of insulation adhered to LWIC deck. Membrane is subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
AC Foam II, AC Foam III, ENRGY -3, H-Shield, H-Shield C, Multi-Max FA, ISO 95+GL		
Minimum 1.5" thick	**N/A**	**N/A**

Note: Apply insulation in TITESET in continuous 3" to 3-1/2" wide beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with TITESET in continuous 3" to 3-1/2" wide beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Ply Sheet: One or more plies of Elastoflex SA V or Elastoflex SA V FR self-adhered.

Membrane: One ply of Elastoflex SA P, Elastoflex SA P FR, Polyflex SA P or Polyflex SA P FR self adhered.

Surfacing: (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs/sq or 300 lbs/sq, respectively, in a flood coat of approved asphalt at 60 lbs/sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

Maximum Design Pressure: -180.0 psf (See General Limitation #9)

Deck Type 4I: Lightweight Concrete

Deck Description: Mearlcrete LWIC over structural concrete; minimum 300psi

System Type A(6): All layers of insulation adhered to LWIC deck. Membrane is subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
AC Foam II, AC Foam III, ENRGY -3, H-Shield, H-Shield C, Multi-Max FA, ISO 95+GL Minimum 1.5" thick	**Minimum 1.5" thick**	**Minimum 1.5" thick**

Note: Apply insulation in TITESET in continuous 3" to 3-1/2" wide beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with TITESET in continuous 3" to 3-1/2" wide beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Ply Sheet: One or more plies of Elastoflex SA V or Elastoflex SA V FR self-adhered.

Membrane: One ply of Elastoflex SA P, Elastoflex SA P FR, Polyflex SA P or Polyflex SA P FR self adhered.

Surfacing: (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs/sq or 300 lbs/sq, respectively, in a flood coat of approved asphalt at 60 lbs/sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

Maximum Design Pressure: -240.0 psf (See General Limitation #9)

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Approved Cellular Lightweight Concrete

System Type E(1): Base sheet mechanically fastened.

All General and System limitations apply.

Base Sheet: One ply of GAFGLAS #75 fastened to the deck as described below:

Fastening: Attach base sheet using ITW Buildex Lite Weight Concrete Fasteners spaced 7" o.c. in a 4" lap and 7" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: One or more plies of Elastoflex SA V or Elastoflex SA V FR self-adhered.

Membrane: One ply of Elastoflex SA P, Elastoflex SA P FR, Polyflex SA P or Polyflex SA P FR self adhered.

Surfacing: (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs/sq or 300 lbs/sq, respectively, in a flood coat of approved asphalt at 60 lbs/sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

Maximum Design Pressure: -45 psf; (See general limitation #7.)

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Elastizell with Zell-Crete fibers; 350-400 psi Compressive strength. Supplemental attachement with Roofgrip #21 screws and 3" Flat Bottom Plates at 1 per $8ft^2$.

System Type E(2): Base sheet mechanically fastened.

All General and System limitations apply.

Base Sheet: Elastobase V or Elastobase P fastened as outlined below:

Fastening: Twin-Loc nails at 6" o.c. in 4" lap and 6" o.c. in three equally spaced center rows.

Ply Sheet: Elastoflex SA V self adhered.

Membrane: One ply of Polyflex SA P FR, Polyflex SA P, Elastoflex SA P, Elastoflex SA P FR, Elastoflex SA V G or Elastoflex SA-V FR self-adhered.

Surfacing: (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs/sq or 300 lbs/sq, respectively, in a flood coat of approved asphalt at 60 lbs/sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

Maximum Design Pressure: -60 psf; (See general limitation #7.)

Deck Type 4:	Lightweight Concrete, Non-insulated
Deck Description:	Celcore MF Lightweight Concrete; 300psi compressive strength.
System Type E(3):	Base sheet mechanically fastened.

All General and System limitations apply.

Base Sheet:	Elastobase V or Elastobase P fastened as outlined below:
Fastening:	FM-90 fasteners at 8" o.c. in 4" lap and 8" o.c. in three equally spaced center rows.
Ply Sheet:	One or more plies of Elastoflex SA V or Elastoflex SA V FR self-adhered.
Membrane:	One ply of Elastoflex SA P, Elastoflex SA P FR, Polyflex SA P or Polyflex SA P FR self adhered.
Surfacing:	(Optional) Install one of the following to obtain required fire classification. 1. Gravel or slag at 400 lbs/sq or 300 lbs/sq, respectively, in a flood coat of approved asphalt at 60 lbs/sq. 2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq. 3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq. 4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq. 5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq. 6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.
Maximum Design Pressure:	-60 psf; (See general limitation #7.)

LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

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

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap 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. **(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 to 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.)**

END OF THIS ACCEPTANCE