



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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Miami, Florida 33175-2474
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www.miamidade.gov/economy

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 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: Polyglass Modified Bitumen 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 revises NOA# 13-0416.03 and consists of pages 1 through 24.
The submitted documentation was reviewed by Alex Tigera.

Alex Tigera 2/2/15



NOA No.: 13-1217.08
Expiration Date: 07/13/18
Approval Date: 10/16/14
Page 1 of 24

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Materials	SBS/APP
Deck Type:	Lightweight Insulating Concrete
Maximum Design Pressure:	-225 psf

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>
Polyflex	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a smooth or sanded top surface.
XtraFlex APP S	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a smooth or sanded top surface.
Polyflex G	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.
Polyflex G FR	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, fire-rated, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface and fire retardant chemistry.
XtraFlex APP G	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, fire-rated, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface and fire retardant chemistry.
Polybond	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a smooth or sanded top surface.
Polybond G	32' 10" x 3' 3-3/8"	ASTM D 6222 Type I	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.
Elastoflex S6	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a polyethylene or sanded top surface.
XtraFlex SBS Poly Base	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a polyethylene or sanded top surface.



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>
Elastoflex S6 G	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface.
Elastoflex S6 G FR	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, fire-rated, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface and fire retardant chemistry.
XtraFlex SBS Poly G	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, fire-rated, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface and fire retardant chemistry.
Elastoshield TSG	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface.
Elastoshield TSG FR	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, fire-rated, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface and fire retardant chemistry.
Elastoflex V	32' 10" x 3' 3-3/8"	ASTM D 6163	Torch, hot asphalt or cold adhesive applied, fiberglass reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a sanded top surface. Also available in a thicker version listed as Elastoflex V 2.5.
XtraFlex SBS Glass Interply	32' 10" x 3' 3-3/8"	ASTM D 6163	Torch, hot asphalt or cold adhesive applied, fiberglass reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a sanded top surface.
Polyfresko G SBS	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface.
Polyfresko G SBS FR	32' 10" x 3' 3-3/8"	ASTM D 6164	Torch, hot asphalt or cold adhesive applied, fire-rated, polyester reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface and fire retardant chemistry.
Polyfresko G	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.



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>
XtraFlex Kool APP G	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.
Polyfresko G FR	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, fire-rated, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface and fire retardant chemistry.
Elastobase	65' 8" x 3' 3-3/8"	ASTM D 6163 Type I	SBS modified asphalt coated fiberglass reinforced base sheet.
XtraFlex SBS Glass Base	65' 8" x 3' 3-3/8"	ASTM D 6163 Type I	SBS modified asphalt coated fiberglass reinforced base sheet.
Elastobase P	65' 8" x 3' 3-3/8"	ASTM D 6164	SBS modified asphalt coated polyester reinforced base sheet.
Polyglass G2 Base	108' x 36"	ASTM D 4601 Type II	Asphalt-coated fiberglass reinforced base sheet
Cold Process Adhesive	1, 3, 5, 50, 55 gal. or tube	ASTM D3019 Type III	A fibered cold process adhesive for use with roll or BUR roofing.
PG100 Asphalt Primer	1, 3, 5, 50, 55 gal, tube or 17 oz. spray can	ASTM D41	A penetrating solution of solvent and a blend of selected asphalts used to promote adhesion.
XtraFlex 10 Asphalt Primer	1, 3, 5, 50, 55 gal, tube or 17 oz. spray can	ASTM D41	A penetrating solution of solvent and a blend of selected asphalts used to promote adhesion.
PG350 Mod Bit Adhesive	1, 3, 5, 50, 55 gal. or tube	ASTM D3019 Type III	A fibered rubberized adhesive designed for use with modified bitumen membranes.
PG400 Plastic Roof Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586 ASTM D3409	A thick, fibered, rubberized flashing cement for use in dry or damp conditions.
PG425 Wet/Dry Roof Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586 ASTM D3409	A thick, fibered, rubberized flashing cement for use in dry or damp conditions.
PG450 Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement.
PG500 MB Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.
Polyplus 35 Premium Mod Bit Adhesive	1, 3, 5, 50, 55 gal. or tube	ASTM D3019 Type III	A fibered rubberized adhesive designed for use with modified bitumen membranes.
XtraFlex 35 Premium Mod Bit Adhesive	1, 3, 5, 50, 55 gal. or tube	ASTM D3019 Type III	A fibered rubberized adhesive designed for use with modified bitumen membranes.
Polyplus 45 Premium Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement.



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>
Polyplus 50 Premium MB Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.
XtraFlex 50 Premium Modified Wet/Dry Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.
Polyplus 55 Premium Modified Flashing Cement	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A mastic compound for use as a roof flashing adhesive.



APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
Polytherm	Polyisocyanurate foam insulation	Polyglass USA, Inc.
Polytherm Composite	Polyisocyanurate/perlite composite insulation.	Polyglass USA, Inc.
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
High Density Wood Fiberboard	Wood fiber insulation board	Generic
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
FescoBoard	Expanded mineral fiber	Johns Manville Corp.
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax Operating, LLC
TherमारooF Composite-3	Polyisocyanurate foam insulation	Rmax Operating, LLC
SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced coverboard	USG Corporation



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Dekfast 15 HS	Insulation fastener for wood, steel and concrete decks		SFS Intec, Inc.
2.	CR Base Sheet Fastener (1.2") or CR Base Sheet Fastener (1.7")	Galvanized fastener for gypsum and lightweight insulating concrete		OMG, Inc.
3.	Twin Loc-Nail	Pre-assembled Galvalume Base Sheet Fastener and stress plate.	Various	ES Products, Inc.
4.	FM-260	Pre-assembled Galvalume Base Sheet Fastener and stress plate.	Various	ES Products, Inc.
5.	FM-90	Pre-assembled Galvalume Base Sheet Fastener and stress plate	Various	ES Products, Inc.
6.	Maxload Fastener	Insulation fastener for wood, steel, and concrete decks.	Various	OMG, Inc.
7.	Flat Bottom Metal Plate	Galvalume stress plate.	3" square	OMG, Inc.



APPROVED SURFACING:

TABLE 4

<u>Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
1.	PG200 Non-Fibered Roof Coating	A non fibered asphaltic coating used to add life and rejuvenate existing BUR roofing substrates.	1½-2 gal/sq	TAS 140	Polyglass USA, Inc.
2.	XtraFlex 20 Bituminous Roof Coating	A non fibered asphaltic coating used to add life and rejuvenate existing BUR roofing substrates.	1½-2 gal/sq	TAS 140	Polyglass USA, Inc.
3.	PG300 Fibered Roof Coating	An asphalt cutback fibered roof coating. May be applied by brush or spray equipment to rejuvenate aged BUR	1½-2 gal/sq	ASTM D4479	Polyglass USA, Inc.
4.	XtraFlex Bituminous Roof Coating Fibered	An asphalt cutback fibered roof coating. May be applied by brush or spray equipment to rejuvenate aged BUR	1½-2 gal/sq	ASTM D4479	Polyglass USA, Inc.
5.	PG600 Non-Fibered Aluminum Roof Coating	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Polyglass USA, Inc.
6.	PG650 Fibered Aluminum Roof Coating	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Polyglass USA, Inc.
7.	PG700 Elastomeric Roof Coating	A premium white elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
8.	PG800 Non-Fibered Asphalt Emulsion Roof Coating	An asphalt base, unfibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Polyglass USA, Inc.
9.	XtraFlex 80 Emulsion Roof Coating	An asphalt based, non-fibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Polyglass USA, Inc.
10.	PG850 Fibered Asphalt Emulsion Roof Coating	An asphalt base, fibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Polyglass USA, Inc.
11.	Polyplus 65 Premium Fibered Aluminum Roof Coating	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Polyglass USA, Inc.
12.	XtraFlex 65 Aluminum Roof Coating Fibered	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Polyglass USA, Inc.



APPROVED SURFACING:

TABLE 4

<u>Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
13.	Polyplus 60 Premium Non-Fibered Aluminum Roof Coating	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Polyglass USA, Inc.
14.	XtraFlex 60 Aluminum Roof Coating	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Polyglass USA, Inc.
15.	Polybrite 70 Premium Grade Elastomeric Roof Coating	A premium white elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
16.	XtraFlex 70 Premium Acrylic FR Roof Coating	A premium white elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
17.	Polybrite 90 High Solids Silicone Roof Coating	A premium grade high solids, single component, moisture cure, fluid applied silicone coating	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
18.	XtraFlex SRC 9600 High Solids Silicone Roof Coating	A premium grade high solids, single component, moisture cure, fluid applied silicone coating	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
19.	Polybrite 95 Silicone Roof Coating	A single component, solvent, moisture cure silicone coating.	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
20.	XtraFlex SRC 8000 Silicone Roof Coating	A single component, solvent, moisture cure silicone coating.	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
21.	Gravel	To be installed in a flood coat of approved asphalt at 60 lbs/sq	400 lbs/sq	N/A	Generic
22.	Slag	To be installed in a flood coat of approved asphalt at 60 lbs/sq	300 lbs/sq	N/A	Generic



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Name/Report</u>	<u>Report No.</u>	<u>Date</u>
Factory Mutual Research Corporation	4470	2W7A7.AM	08.04.94
	4470	3001334	02.15.00
	4470	3000857	01.12.00
	4470	3004091	01.12.00
	4470	3014692	08.05.03
	4470	3023458	07.18.06
Underwriters Laboratory	TAS 114	00NK20869	06.08.00
Trintiy ERD	TAS 114	11752.09.99-1	02.08.00
	TAS 114	11776.06.02	06.13.02
	TAS 114	11758.08.03	08.11.03
	TAS 114	020843.02.05-1	02.10.05
	TAS 114	02764.09.05	09.09.05
	TAS 114	P1739.01.07	01.23.07
	TAS 117(B)-ASTM D6862	C8500SC.11.07	11.30.07
	ASTM D 6164 / D 6222	P10490.10.08-R1	10.03.08
	ASTM D6222	P37590. 07.13-2	07.01.13
	ASTM D6222	P37590.03.13-5-R1	07.01.13
	ASTM D6509	P37590.03.13-1-R1	06.26.13
	ASTM D6164	P37590.03.13-3A	03.06.13
	ASTM D6164	P37590.07.13-1	07.02.13
	ASTM D6163	P37590.03.13-2-R1	07.01.13
ASTM D4601 / TAS 117	P45940.09.13	09.04.13	
PRI Asphalt Technologies	ASTM D6222	PUSA-062-02-01	12.04.07
	ASTM D6163	PUSA-064-02-02	02.27.08
	ASTM D6694	PUSA-134-02-01	05.16.14
	ASTM D6694	PUSA-135-02-01	05.16.14



APPROVED ASSEMBLIES:

- Membrane Type:** SBS/APP
- 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. 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.

- Anchor Sheet:** One ply of Polyglass G2 Base or GAFGLAS #75 fastened to the deck as described below:
- Fastening:** Attach anchor sheet using OMG CR Base Sheet 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.

<u>Base Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, Polytherm, Multi-Max FA-3, H-Shield, Polytherm-H, Tapered 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>
Thermarroof Composite-3, Polytherm Composite Minimum 1.5” thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum ½” thick	N/A	N/A
FescoBoard Minimum ¾” 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.

- Base Sheet:** (Optional if using 1 to 3 plies of ply sheet noted below) One ply of Elastobase or XtraFlex SBS Glass Base adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Ply Sheet:** (Optional) One ply of Elastobase or XtraFlex SBS Glass Base or one or more plies of Type IV or VI ply sheet adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



Membrane: One ply of Polyflex, XtraFlex APP S, Polyflex G, Polyflex G FR, XtraFlex APP G, Polyfresko G, XtraFlex Kool APP G, Polyfresko G FR, Polybond, Polybond G torch applied or one ply of Elastoflex S6 G, Elastoflex S6 G FR, XtraFlex SBS Poly G, Polyfresko G SBS, Polyfresko G SBS FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

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



Membrane Type: SBS
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Elastizell LWIC over structural concrete; minimum 200psi
System Type A(2): One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

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>
ACFoam-II, Polytherm, H-Shield, Polytherm-H Minimum 2” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional if using ply sheet in hot asphalt) One or more plies of Elastoflex S6, XtraFlex SBS Poly Base, Elastoflex V or XtraFlex SBS Glass Interply adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional if using base sheet in hot asphalt) One or more plies of Elastoflex S6, XtraFlex SBS Poly Base, Elastoflex V or XtraFlex SBS Glass Interply adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Elastoflex S6 G, Elastoflex S6 G FR, XtraFlex SBS Poly G, Polyfresko G SBS, Polyfresko G SBS FR, Elastoshield TSG or Elastoshield TSG FR hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

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



Membrane Type: APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Elastizell LWIC over structural concrete; minimum 200psi
System Type A(3): One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

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>
ACFoam-II, Polytherm, H-Shield, Polytherm-H Minimum 2” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of Polyflex, XtraFlex APP S or Polybond torch applied.
Membrane: One ply of Polyflex G, Polyflex G FR, XtraFlex APP G, Polyfresko G, XtraFlex Kool APP G, Polyfresko G FR or Polybond G torch applied.
Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.
Maximum Design Pressure: -180.0 psf (See General Limitation #9)



Membrane Type: SBS
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Elastizell LWIC over structural concrete; minimum 200psi
System Type A(4): One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

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>
ACFoam-II, Polytherm, H-Shield, Polytherm-H Minimum 2” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

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

Base Sheet: (Optional if using ply sheet in hot asphalt) One or more plies of Elastoflex S6, XtraFlex SBS Poly Base, Elastoflex V or XtraFlex SBS Glass Interply adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional if using base sheet in hot asphalt) One or more plies of Elastoflex S6, XtraFlex SBS Poly Base, Elastoflex V or XtraFlex SBS Glass Interply adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Elastoflex S6 G, Elastoflex S6 G FR, XtraFlex SBS Poly G, Polyfresko G SBS, Polyfresko G SBS FR, Elastoshield TSG or Elastoshield TSG FR hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

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



Membrane Type: APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Elastizell LWIC over structural concrete; minimum 200psi
System Type A(5): One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

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>
ACFoam-II, Polytherm, H-Shield, Polytherm-H Minimum 2” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

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

Base Sheet: One or more plies of Polyflex, XtraFlex APP S or Polybond torch applied.
Membrane: One ply of Polyflex G, Polyflex G FR, XtraFlex APP G, Polyfresko G, XtraFlex Kool APP G, Polyfresko G FR or Polybond G torch applied.
Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.
Maximum Design Pressure: -225.0 psf (See General Limitation #9)



Membrane Type: SBS
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Celcore or Mearlcrete LWIC over structural concrete; minimum 200psi
System Type A(6): One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

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>
ACFoam-II, Polytherm, H-Shield, Polytherm-H Minimum 2” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in TITASET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with TITASET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional if using ply sheet in hot asphalt) One or more plies of Elastoflex S6, XtraFlex SBS Poly Base, Elastoflex V or XtraFlex SBS Glass Interply adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional if using base sheet in hot asphalt) One or more plies of Elastoflex S6, XtraFlex SBS Poly Base, Elastoflex V or XtraFlex SBS Glass Interply adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of Elastoflex S6 G, Elastoflex S6 G FR, XtraFlex SBS Poly G, Polyfresko G SBS, Polyfresko G SBS FR, Elastoshield TSG or Elastoshield TSG FR hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

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



Membrane Type: APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Celcore or Mearlcrete LWIC over structural concrete; minimum 200psi
System Type A(6): One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

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>
ACFoam-II, Polytherm, H-Shield, Polytherm-H Minimum 2” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of Polyflex, XtraFlex APP S or Polybond torch applied.
Membrane: One ply of Polyflex G, Polyflex G FR, XtraFlex APP G, Polyfresko G, XtraFlex Kool APP G, Polyfresko G FR or Polybond G torch applied.
Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.
Maximum Design Pressure: -225.0 psf (See General Limitation #9)



Membrane Type: SBS/APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Approved Cellular Lightweight Concrete
System Type E(1): Base sheet mechanically fastened. Membranes subsequently 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.

Base Sheet: One ply of Polyglass G2 Base or GAFGLAS #75 fastened to the deck as described below:

Fastening: Attach base sheet using OMG CR Base Sheet Fasteners and Plates 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: (Optional) One ply of Elastobase, XtraFlex SBS Glass Base or one to more plies of Type IV or VI ply sheet adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs.

Membrane: One ply of Polyflex, XtraFlex APP S, Polyflex G, Polyflex G FR, XtraFlex APP G, Polyfresko G, XtraFlex Kool APP G, Polyfresko G FR, Polybond, Polybond G torch applied or one ply of Elastoflex S6 G, Elastoflex S6 G FR, XtraFlex SBS Poly G, Polyfresko G SBS, Polyfresko G SBS FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -45.0 psf (See General Limitation #7)



Membrane Type: SBS/APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Celcore MF Lightweight Concrete; 300psi compressive strength.
System Type E(2): Base sheet mechanically fastened. Membranes subsequently 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.

Base Sheet: XtraFlex SBS Glass Base, Elastobase 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 ply of Elastobase, XtraFlex SBS Glass Base or one to more plies of Type IV or VI ply sheet adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs.

Membrane: One ply of Polyflex, XtraFlex APP S, Polyflex G, Polyflex G FR, XtraFlex APP G, Polyfresko G, XtraFlex Kool APP G, Polyfresko G FR, Polybond, Polybond G torch applied or one ply of Elastoflex S6 G, Elastoflex S6 G FR, XtraFlex SBS Poly G, Polyfresko G SBS, Polyfresko G SBS FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

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



Membrane Type: SBS/APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Elastizell with Zell-Crete fibers; 350-400 psi Compressive strength. Supplemental attachment with OMG Maxload Fastener and 3” Flat Bottom Metal Plates at 1 per 8ft².
System Type E(3): Base sheet mechanically fastened. Membranes subsequently 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.

Base Sheet: Polyglass G2 Base, XtraFlex SBS Glass Base, Elastobase 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: One ply of Elastobase or XtraFlex SBS Glass Base or one to more plies of Type IV or VI ply sheet adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs.

Membrane: One ply of Polyflex, XtraFlex APP S, Polyflex G, Polyflex G FR, XtraFlex APP G, Polyfresko G, XtraFlex Kool APP G, Polyfresko G FR, Polybond, Polybond G torch applied or one ply of Elastoflex S6 G, Elastoflex S6 G FR, XtraFlex SBS Poly G, Polyfresko G SBS, Polyfresko G SBS FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

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



Membrane Type: SBS/APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Celcore MF Lightweight Concrete; 300psi compressive strength.
System Type E(4): Base sheet mechanically fastened. Membranes subsequently 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.

Base Sheet: Elastobase P fastened as outlined below:

Fastening: FM-260 fasteners at 10” o.c. in 4” lap and 10” o.c. in three equally spaced center rows.

Ply Sheet: (Optional) One ply of Elastobase, XtraFlex SBS Glass Base or one to more plies of Type IV or VI ply sheet adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs.

Membrane: One ply of Polyflex, XtraFlex APP S, Polyflex G, Polyflex G FR, XtraFlex APP G, Polyfresko G, XtraFlex Kool APP G, Polyfresko G FR, Polybond, Polybond G torch applied or one ply of Elastoflex S6 G, Elastoflex S6 G FR, XtraFlex SBS Poly G, Polyfresko G SBS, Polyfresko G SBS FR, Elastoshield TSG or Elastoshield TSG FR torch or hot asphalt applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

Maximum Design Pressure: -90.0 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 Professional Engineer, Registered 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. 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 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.)**
10. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

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11. 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

MIAMI-DADE COUNTY
APPROVED

NOA No.: 13-1217.08
Expiration Date: 07/13/18
Approval Date: 10/16/14
Page 24 of 24