



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Polyglass USA, Inc.
1111 W. Newport Center Drive
Deerfield Beach, FL 33442

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 NOA renews NOA #21-1207.17 and consists of pages 1 through 25.
The submitted documentation was reviewed by Alex Tigera.

07/04/24



NOA No.: 23-1211.03
Expiration Date: 07/13/29
Approval Date: 07/04/24
Page 1 of 25

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Materials	SBS/APP
Deck Type:	Lightweight Insulating Concrete
Maximum Design Pressure:	-262.5 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>
Polyglass G2 Base	108' x 36"	ASTM D 4601 Type II	Asphalt-coated fiberglass reinforced base sheet
Polyflex SA Base	66' 8" x 3' 3-3/8"	ASTM D 4601 Type II	Self-adhered, fiberglass reinforced, APP modified bitumen base sheet.
Elastoshield VP HT	65' 8" x 3' 3-3/8"	ASTM D 6162	SBS modified asphalt coated fiberglass/polyester reinforced base sheet.
Elastobase V	65' 8" x 3' 3-3/8"	ASTM D 6163	SBS modified asphalt coated fiberglass reinforced base sheet.
Elastoflex SA V	66' 8" 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 FR	66' 8" x 3' 3-3/8"	ASTM D 6163	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a fire retardant additive, self-adhering back face and a smooth top surface.
Elastoflex SA V PLUS	66' 8" 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 PLUS FR	66' 8" x 3' 3-3/8"	ASTM D 6163	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a fire retardant additive, self-adhering back face and a smooth top surface.
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.
Elastoflex V G	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 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>
Elastoflex V G FR	32' 10" x 3' 3-3/8"	ASTM D 6163	Torch, hot asphalt or cold adhesive applied, fire-rated, fiberglass reinforced, SBS modified bitumen membrane with a burn off polyethylene or sanded back face and a granule top surface and fire retardant chemistry.
Elastobase P	65' 8" x 3' 3-3/8"	ASTM D 6164	SBS modified asphalt coated polyester reinforced base sheet.
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.
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.
Elastoshield TS 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.
Elastoshield TS 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.
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	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.
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.



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 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.
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.
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.
PG 100	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.
PG 350	1, 3, 5, 50, 55 gal. or tube	ASTM D3019 Type III	A fibered rubberized adhesive designed for use with modified bitumen membranes.
POLYPLUS 35	1, 3, 5, 50, 55 gal. or tube	ASTM D3019 Type III	A fibered rubberized adhesive designed for use with modified bitumen membranes.
PG 450	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement.
PG 500	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.
POLYPLUS 45	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement.
POLYPLUS 50	1, 3, 5, 50, 55 gal. or tube	ASTM D4586	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.
PG 400	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.
PG 425	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.



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>
WB-3000	5 gallon pail	Proprietary	A low-VOC, water-based acrylic primer to enhance adhesion of self-adhered membranes.

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-H	Polyisocyanurate foam insulation	Polyglass USA, Inc.
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, a division of Carlisle Construction Materials, LLC
FescoBoard	Expanded mineral fiber	Johns Manville Corp.
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation
Thermarroof Composite-3	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation
SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced coverboard	USG Corporation
DensDeck Prime	Gypsum insulation board	Georgia-Pacific Gypsum LLC
DEXcell FA Glass Mat Roof Board	Gypsum Board	National Gypsum Company a dba of New NGC, Inc.



APPROVED FASTENERS/ADHESIVES:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Trufast Twin Loc-Nail Assembled Fastener	Pre-assembled Galvalume Base Sheet Fastener and stress plate.	Various	Altenloh, Brinck & Co. U.S., Inc.
2.	Trufast FM-90 Base Sheet Fastener	Pre-assembled Galvalume Base Sheet Fastener and stress plate	Various	Altenloh, Brinck & Co. U.S., Inc.
3.	Maxload Fastener	Insulation fastener for wood, steel, and concrete decks.	Various	OMG, Inc.
4.	Flat Bottom Metal Plate	Galvalume stress plate.	3” square	OMG, Inc.
5.	Polyset Commercial Roof Adhesive	A two component elastomeric polyurethane foam adhesive		ICP Construction, Inc.
6.	OlyBond 500	A two component polyurethane foam adhesive		OMG, Inc.
7.	OlyBond 500 Green	A two component, low rise, polyurethane foam adhesive		OMG, Inc.
8.	Millennium PG-1 Pump Grade Adhesive	A two component, low rise, polyurethane foam adhesive		H.B. Fuller Company



APPROVED SURFACING:

TABLE 4

Chosen components must be applied according to manufacturer’s application instructions.

<u>Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
1.	Gravel	To be installed in a flood coat of approved asphalt at 60 lbs/sq	400 lbs/sq	N/A	Generic
2.	Slag	To be installed in a flood coat of approved asphalt at 60 lbs/sq	300 lbs/sq	N/A	Generic
3.	KM Acryl 15	A premium white or tinted 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.
4.	KM Acryl 15 QS	A premium white or tinted quick setting, 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.
5.	KM Acryl 25	A premium white or tinted 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.
6.	KM Acryl 25 QS	A premium white or tinted quick setting, 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.
7.	PG 300	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.
8.	PG 600	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Polyglass USA, Inc.
9.	PG 650	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Polyglass USA, Inc.



APPROVED SURFACING:

TABLE 4

Chosen components must be applied according to manufacturer’s application instructions.

<u>Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
10.	PG 700	A premium white or tinted 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.
11.	PG 700 QS	A premium white or tinted quick setting, 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.
12.	PG 800	An asphalt based, non-fibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Polyglass USA, Inc.
13.	PolyBrite 70	A premium white or tinted 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.
14.	PolyBrite 70 QS	A premium white or tinted quick setting, 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.
15.	POLYPLUS 60	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Polyglass USA, Inc.
16.	POLYPLUS 65	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Polyglass USA, Inc.



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	
	4470	3031350	09/27/07	
	4470	RR202591	10/22/15	
	4470	3057029	02/02/17	
Underwriters Laboratory	TAS 114	00NK20869	06/08/00	
	UL 790	R14571	06/30/15	
Trintiy ERD	TAS 114	11776.06.02	06/13/02	
	TAS 114	020843.02.05-1	02/10/05	
	TAS 114	02764.09.05	09/09/05	
	TAS 117(B)-ASTM D6862	C8500SC.11.07	11/30/07	
	ASTM D6163 / ASTM D 4601	P33960.03.11	03/15/11	
	FM 4470 & TAS 114	P33970.03.11	03/15/11	
	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 D6222	P37590.07.13-2	07/01/13	
	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	
	ASTM D4601	P44370.10.13	10/04/13	
	ASTM D6162	SC5170.05.15	05/08/15	
	ASTM D6162	SC5170.12.15-1	12/29/15	
	ASTM D6163	PLYG-P45440SC.03.15-2-R1	12/29/15	
	TAS 114	PLYG-SC12095.07.16	07/13/16	
	FM 4470 & TAS 114	P1739.01.07-R1	07/19/16	
	FM 4474, UL1897, TAS 114	PLYG-SC8905.05.16-1	05/17/16	
	ASTM D6163	PLYG-P45440SC.03.15-1-R1	02/19/16	
	TAS 114	P1734.07.06-R2	08/24/16	
	FM 4470 & ASTM D1876	PLYG-SC9455.03.17	03/08/17	
	PRI Asphalt Technologies	Physical Properties	PUSA-213-02-01	05/02/17
	NEMO ETC, LLC.	ASTM D6163	4S-PLYG-18-002.01.19-A	01/24/19
		ASTM D6222	4S-PLYG-18-002.05.19-C	05/20/19
ASTM D6222		4S-PLYG-18-002.05.19-D	05/20/19	
TAS 114(H)		4p-ICP-19-SSLAP-04.A	05/28/20	

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies</u>	<u>Date</u>
Robert Nieminen, P.E.	Signed/Sealed Calculations	E(1), E(2), E(3)	07/19/16



APPROVED ASSEMBLIES:

Membrane Type:	SBS
Deck Type 4I:	Lightweight Concrete, Insulated
Deck Description:	Min. 200 psi Elastizell LWIC over min 2500 psi structural concrete
System Type A(1):	One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>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</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in Millennium PG-1 Pump Grade Adhesive in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with Polyset Commercial Roof Adhesive or Millennium PG-1 Pump Grade Adhesive 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:	<i>(Optional if using ply sheet in hot asphalt)</i> One ply of Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Ply Sheet:	<i>(Optional if using base sheet in hot asphalt)</i> One or more plies of Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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, Elastoshield TS G, Elastoshield TS G 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: SBS/APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Min. 200 psi Elastizell LWIC over min 2500 psi structural concrete
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.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>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</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in Millennium PG-1 Pump Grade Adhesive in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with Polyset Commercial Roof Adhesive or Millennium PG-1 Pump Grade Adhesive in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: (For self-adhering base sheets only) Top insulation is primed with WB-3000.
(Optional)
Base Sheet: One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Polybond, Polyflex, Elastoshield VP HT, torch applied.
 Or
 One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
 Or
 One ply of Elastoflex SA V*, Elastoflex SA V PLUS*, Elastoflex SA V FR*, Elastoflex SA V PLUS FR*, or Polyflex SA Base* self-adhered.
 *Requires torch-applied cap sheet.

Ply Sheet: One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, torch applied.
(Optional)
 Or
 One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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 Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, torch applied.
Or
One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoshield TS G, Elastoshield TS G 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:** -180.0 psf (See General Limitation #9)



Membrane Type: SBS
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Min. 200 psi. Elastizell LWIC over 2500 psi structural concrete
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.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>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</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in OlyBond 500, OlyBond 500 Green Adhesive in continuous ¾” to 1” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with OlyBond 500, OlyBond 500 Green 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 ply of Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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 Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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, Elastoshield TS G, Elastoshield TS G FR, hot asphalt applied.

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

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



Membrane Type: SBS/APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Min. 200 psi. Elastizell LWIC over 2500 psi structural concrete
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.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>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</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in Olybond 500, OlyBond 500 Green Adhesive in continuous ¾” to 1” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with Olybond 500, OlyBond 500 Green 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.

Primer: (For self-adhering base sheets only) Top insulation is primed with WB-3000.
(Optional)
Base Sheet: One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Polybond, Polyflex, Elastoshield VP HT, torch applied.
 Or
 One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
 Or
 One ply of Elastoflex SA V*, Elastoflex SA V FR*, Elastoflex SA V PLUS*, Elastoflex SA V PLUS FR*, Polyflex SA Base* self-adhered.
 *Requires torch-applied cap sheet.

Ply Sheet: One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, torch applied.
(Optional)
 Or
 One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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 Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, torch applied.
Or
One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoshield TS G, Elastoshield TS G 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:** -225.0 psf (See General Limitation #9)



Membrane Type: SBS
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Min. 200 psi Celcore or Mearlcrete LWIC over min 2500 psi structural concrete
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.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>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</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in Millennium PG-1 Pump Grade Adhesive in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with Polyset Commercial Roof Adhesive or Millennium PG-1 Pump Grade Adhesive 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 ply of Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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 Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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, Elastoshield TS G, Elastoshield TS G 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: SBS/APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Min. 200 psi Celcore or Mearlcrete LWIC over min 2500 psi structural concrete
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.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>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</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in Millennium PG-1 Pump Grade Adhesive in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with Polyset Commercial Roof Adhesive or Millennium PG-1 Pump Grade Adhesive in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: (For self-adhering base sheets only) Top insulation is primed with WB-3000.
(Optional)

Base Sheet: One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Polybond, Polyflex, Elastoshield VP HT, torch applied.
 Or
 One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
 Or
 One ply of Elastoflex SA V*, Elastoflex SA V FR*, Elastoflex SA V PLUS*, Elastoflex SA V PLUS FR*, Polyflex SA Base* self-adhered.
 *Requires torch-applied cap sheet.

Ply Sheet: One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, torch applied.
(Optional)
 Or
 One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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 Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, torch applied.
Or
One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoshield TS G, Elastoshield TS G 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:** -225.0 psf (See General Limitation #9)



Membrane Type: SBS/APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Min. 390 psi Celcore MF over min 2500 psi structural concrete; cast over concrete deck with min. 1” EPS Holey Board embedded in 1/8” slurry. Followed by a min. 2” top coat of Celcore MF with Celcore PVA Curing Compound at 200 ft²/gal.
System Type A(7): One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
ACFoam-II, Polytherm, H-Shield, Polytherm-H, Multi-Max FA-3, ENRGY 3 Minimum 1” thick	N/A	N/A
SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime, DEXcell FA Glass Mat Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in Olybond 500 or OlyBond 500 Green Adhesive in continuous ¾” to 1” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: Insulation is primed with WB-3000.
(Optional)
Base Sheet: One ply of Elastoflex SA V, Elastoflex SA V FR, Elastoflex SA V PLUS, Elastoflex SA V PLUS FR, Polyflex SA Base self-adhered.
Membrane: One ply of Polybond, Polyflex G, Polyfresko G torch-applied.
Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or
(Optional) required fire classification.
Maximum Design Pressure: -262.5 psf (See General Limitation #9)



Membrane Type: SBS/APP
Deck Type 4I: Lightweight Concrete, Insulated
Deck Description: Min 390 psi. Celcore MF over min 2500 psi structural concrete cast over concrete deck with min. 1” EPS Holey Board embedded in 1/8” slurry. Followed by a min. 2” top coat of Celcore MF with Celcore PVA Curing Compound at 200 ft²/gal.
System Type A(8): One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer (Optional)</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
ACFoam-II, Polytherm, H-Shield, Polytherm-H, Multi-Max FA-3, ENRGY 3 Minimum 1” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime, DEXcell FA Glass Mat Roof Board Minimum ¼” thick	N/A	N/A

Note: Apply insulation in Olybond 500 or OlyBond 500 Green 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 ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Polybond, Polyflex, Elastoshield VP HT, torch applied.
 Or
 One ply of Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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 or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, torch applied.
 Or
 One or more plies of Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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 Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, torch applied.
 Or
 One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoshield TS G, Elastoshield TS G 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:**

-262.5 psf (See General Limitation #9)



Membrane Type: SBS/APP
Deck Type 4: Lightweight Concrete, Non-Insulated
Deck Description: Min 380 psi Celcore MF Lightweight Concrete over min 2500 psi. structural concrete or min. 18-22 ga., Type B, Grade 33 vented steel deck secured to structural supports spaced 5 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. Deck side laps are secured 12" o.c. with Traxx/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table
System Type E(1): Base sheet mechanically fastened. Membranes subsequently adhered.

All General and System limitations apply.

Base Sheet: One ply of Elastobase V, Elastobase P, Elastoshield VP HT, fastened as outlined below:

Fastening: Trufast FM-90 Base Sheet Fastener 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 Elastobase V, Elastoshield VP HT, 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.

Or

One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, torch applied

Or

One or more plies of Elastoflex SA V*, Elastoflex SA V PLUS*, Elastoflex SA V FR*, Elastoflex SA V PLUS FR* * self-adhered.

*Requires torch-applied cap sheet

Membrane: One ply of Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, torch applied.

Or

One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoshield TS G, Elastoshield TS G 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 4: Lightweight Concrete, Non-Insulated

Deck Description: Min 330 psi Elastizell with Zell-Crete fibers with supplemental attachment using OMG Maxload Fastener and 3" Flat Bottom Metal Plates at 1 per 8ft² over min 2500 psi. structural concrete or steel deck.

Steel deck shall be min. 18-22 ga., Type B, Grade 33 vented steel deck secured to structural supports spaced 5 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. Deck side laps are secured 12" o.c. with Traxx/1 fasteners.

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

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

All General and System limitations apply.

Base Sheet: One ply of Elastobase V, Elastobase P, Polyglass G2 Base, Elastoshield VP HT, fastened as outlined below:

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

Ply Sheet: One or more plies of Elastobase V, Elastoshield VP HT, 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.

Or

One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, torch applied

Or

One or more plies of Elastoflex SA V*, Elastoflex SA V PLUS*, Elastoflex SA V FR*, Elastoflex SA V PLUS FR* self-adhered.
*Requires torch-applied cap sheet

Membrane: One ply of Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, torch applied.

Or

One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoflex V G, Elastoflex V G FR, Elastoshield TS G, Elastoshield TS G 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 4: Lightweight Concrete, Non-Insulated
Deck Description: Min 390 psi Celcore MF Lightweight Concrete over min 2500 psi. structural concrete or min. 18-22 ga., Type B, Grade 33 vented steel deck secured to structural supports spaced 5 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. Deck side laps are secured 12" o.c. with Traxx/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.
System Type E(3): Base sheet mechanically fastened. Membranes subsequently adhered.

All General and System limitations apply.

Base Sheet: One ply of Elastobase P fastened as outlined below:

Fastening: Trufast FM-290 Base Sheet 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 V, Elastoshield VP HT, 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 Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, torch applied.
Or
One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoshield TS G, Elastoshield TS G 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.)**
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