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

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

NOTICE OF ACCEPTANCE (NOA)

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 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 #21-1207.18 and consists of pages 1 through 52.
The submitted documentation was reviewed by Alex Tigera.

07/04/24

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Materials	SBS/APP
Deck Type:	Concrete
Maximum Design Pressure:	-622.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
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, fire-rated, fiberglass reinforced, SBS modified bitumen membrane with a 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, fire-rated, fiberglass reinforced, SBS modified bitumen membrane with a 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

Product	Dimensions	Test Specification	Product Description
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.
Elastoflex SA P	32’ 106” 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.
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.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
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.
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.
Polybase V	65’ 8” x 3’ 3-3/8”	ASTM D 6509	APP modified bitumen, fiberglass reinforced, base/ply sheet.
PG 100	1, 3, 5, 50, 55 gal, tube or 17 oz. spray can	ASTM D 41	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 D 3019 Type III	A fibered rubberized adhesive designed for use with modified bitumen membranes.
POLYPLUS 35	1, 3, 5, 50, 55 gal. or tube	ASTM D 3019 Type III	A fibered rubberized adhesive designed for use with modified bitumen membranes.
PG 450	1, 3, 5, 50, 55 gal. or tube	ASTM D 4586	A thick, fibered, rubberized flashing cement.
PG 500	1, 3, 5, 50, 55 gal. or tube	ASTM D 4586	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.
POLYPLUS 50	1, 3, 5, 50, 55 gal. or tube	ASTM D 4586	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.
PG 400	1, 3, 5, 50, 55 gal. or tube	ASTM D 4586 ASTM D 3409	A thick, fibered, rubberized flashing cement for use in dry or damp conditions.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
PG 425	1, 3, 5, 50, 55 gal. or tube	ASTM D 4586 ASTM D 3409	A thick, fibered, rubberized flashing cement for use in dry or damp conditions.
WB-3000	5 gallon pail	Proprietary	A low-VOC, water-based acrylic primer to enhance adhesion of self-adhered membranes.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Polytherm	Polyisocyanurate foam insulation	Polyglass USA, Inc.
Polytherm-H	Polyisocyanurate foam insulation	Polyglass USA, Inc.
Polytherm G	Polyisocyanurate foam insulation	Polyglass USA, Inc.
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ACFoam Composite	Polyisocyanurate foam insulation	Atlas Roofing Corporation
DensDeck	Gypsum insulation board	Georgia-Pacific Gypsum LLC
DensDeck Prime	Gypsum insulation board	Georgia-Pacific Gypsum LLC
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville Corp .
FescoBoard	Expanded mineral fiber	Johns Manville Corp.
Structodek High Density Fiberboard Roof Insulation	Wood fiber board	Blue Ridge Fiberboard, Inc.
SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced Coverboard	USG Corporation
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, a division of Carlisle Construction Materials, LLC.
H-Shield CG	Polyisocyanurate/perlite composite insulation	Hunter Panels, a division of Carlisle Construction Materials, LLC.
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Ultra-Max	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation
ISO 95+ GL	Polyisocyanurate foam insulation	Holcim Solutions and Building Products US, LLC.
EnergyGuard Polyiso Insulation	Polyisocyanurate foam insulation	GAF
Insulfoam EPS	Expanded polystyrene insulation board	Insulfoam, a Div. of Carlisle Const. Materials
DEXcell FA Glass Mat Roof Board	Gypsum board	National Gypsum Company a dba of New NGC, Inc.

APPROVED FASTENERS/ADHESIVES:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Polygrip Fastener #14	Insulation fastener for wood, steel and concrete decks	various	Polyglass USA, Inc.
2.	Polygrip Fastener #15	Insulation fastener for wood, steel and concrete decks	various	Polyglass USA, Inc.
3.	Polygrip Hex Plate	Galvalume hex stress plate.	2 7/8" x 3-¼"	Polyglass USA, Inc.
4.	Dekfast DF-#14-PH3	Insulation fastener for wood, steel and concrete decks	various	SFS Group USA, Inc.
5.	Dekfast DF-#15-PH3	Insulation fastener for wood, steel and concrete decks	various	SFS Group USA, Inc.
6.	Dekfast PLT-H-2-7/8	Galvalume hex stress plate.	2 7/8" x 3 1/4"	SFS Group USA, Inc.
7.	#14 Roofgrip	Insulation fastener for wood, steel and concrete decks.	various	OMG, Inc.
8.	Flat Bottom Metal Plate	Galvalume stress plate.	3" square	OMG, Inc.
9.	*isofast* PLT-R-2-3/8-BL	Galvalume AZ55 steel plate	2.37" round	SFS Group USA, Inc.
10.	Trufast #14 HD Stainless Steel Bi-Metal Fastener	Insulation fastener for wood, steel and concrete decks	various	Altenloh, Brinck & Co. U.S., Inc.

APPROVED FASTENERS/ADHESIVES:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
11.	Trufast 3" Metal Insulation Plates	Round Galvalume steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
12.	Trufast #15 EHD Fastener	Insulation fastener for wood, steel and concrete decks	various	Altenloh, Brinck & Co. U.S., Inc
13.	Trufast 2.4” Scoop Seam Plate	Galvalume steel stress plate.	2.4” round	Altenloh, Brinck & Co. U.S. Inc.
14.	Trufast 2.4 Barded Metal Seam Plate	Galvalume steel stress plate.	2.4” round	Altenloh, Brinck & Co. U.S. Inc.
15.	Trufast 2-3/4" Barbed Metal Seam Plate (EHD)	Galvalume steel stress plate.	2.75” round	Altenloh, Brinck & Co. U.S. Inc.
16.	Dekfast PLT-R-2-3/8-6B	Galvalume steel stress plate.	2.37” round	SFS Group USA, Inc.
17.	Millennium One Step Foamable Insulation Adhesive	A two component, low rise, polyurethane foam adhesive		H.B. Fuller Company
18.	Millennium One Step Green Foamable Insulation Adhesive	A two component, low rise, polyurethane foam adhesive		H.B. Fuller Company
19.	Millennium PG-1 Pump Grade Adhesive	A two component, low rise, polyurethane foam adhesive		H.B. Fuller Company
20.	OlyBond 500	A two component polyurethane foam adhesive		OMG, Inc.
21.	OlyBond 500 Green	A two component, low rise, polyurethane foam adhesive		OMG, Inc.

APPROVED SURFACING:

TABLE 4

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

Number	Product Name	Product Description	Application Rate	Specification	Manufacturer
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.

Number	Product Name	Product Description	Application Rate	Specification	Manufacturer
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:

Test Agency	Test Name/Report	Report No.	Date
Factory Mutual Research Corporation	4470	2W7A7.AM	08/04/94
	4450	2D5A9.AM	06/22/99
	4470	3004091	01/12/00
	4470	3001334	02/15/00
	4470	3012321	07/29/02
	4470	3014692	08/05/03
	4450	3014751	08/27/03
	4470	3023458	07/18/06
	4470	3024311	11/01/06
	4470	3031350	09/27/07
	4470	3032172	06/12/09
	4470	3036182	07/31/09
	4470	RR202591	10/22/15
	4470	3055491	12/05/16
	4470	3057029	02/02/17
Underwriters Laboratory	TAS 114	00NK20869	06/08/00
	UL 790	R14571	06/30/15
Trinity | ERD	TAS 114	11772.08.00-1	08/14/00
	TAS 114	11776.06.02	06/13/02
	FM 4470	117777.06.03	06/30/03
	TAS 117(B)-ASTM D6862	C8500SC.11.07	11/30/07
	TAS 114(D) – ASTM D1876	P10070.10.08	10/09/08
	TAS 114 Appendix D	P13770.09.09	09/10/09
	TAS 114	P13760.09.09	09/10/09
	FM 4470 & TAS 114	P30550.12.09-1	12/02/09
	FM 4470 & TAS 114	P30550.12.09-2	12/02/09
	FM 4470 & TAS 114	02762.03.05-R2	04/01/10
	ASTM D6163 / ASTM D 4601	P33960.03.11	03/15/11
	FM 4470 & TAS 114	P33970.03.11	03/15/11
	ASTM D6164	P37590.03.13-3A	03/06/13
	FM 4470 & TAS 114	P1738.02.07-R2	04/29/13
	TAS 114	11757.04.01-1-R1	04/30/13
	ASTM D6509	P37590.03.13-1-R1	06/26/13
	ASTM D6222	P37590.07.13-2	07/01/13
	ASTM D6222	P37590.03.13-5-R1	07/01/13
	ASTM D6163	P37590.03.13-2-R1	07/01/13
	ASTM D6164	P37590.07.13-1	07/02/13
	ASTM D4601 / TAS 117	P45940.09.13	09/04/13
	ASTM D4601	P44370.10.13	10/04/13
	FM 4474 & TAS 114	SC6160.11.14	11/10/14
	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
	ASTM D6163	PLYG-P45440SC.03.15-1-R1	02/19/16
	FM 4474, UL1897, TAS 114	PLYG-SC8905.05.16-1	05/17/16
	FM 4474, UL1897, TAS 114	PLYG-SC8905.05.16-2	05/17/16

EVIDENCE SUBMITTED:

Test Agency	Test Name/Report	Report No.	Date
	TAS 114 & FM 4474	PLYG-SC10815.07.16	07/18/16
	TAS 114	P1734.07.06-R2	08/24/16
	FM 4470 & ASTM D1876	PLYG-SC9455.03.17	03/08/17
	TAS 114	11757.12.00-1-R2	04/05/17
PRI Asphalt Technologies	FM 4474, TAS 114(D)	PUSA-188-02-01	02/08/17
	FM 4474, TAS 114(D)	PUSA-188-02-02	02/08/17
	FM 4474, TAS 114(D)	PUSA-188-02-03	02/08/17
	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

APPROVED ASSEMBLIES:

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(1): All layers of insulation adhered with approved adhesive. Membranes 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/ft²**
Insulfoam EPS, min 2.0 pcf Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck, DensDeck Prime 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. Additional layers of insulation to be adhered with 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: (Optional) Top insulation is primed with PG 100 or WB-3000.

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

Maximum Design Pressure: -75 psf: Base sheet adhered to DensDeck or DensDeck Prime (See General Limitation #9)
-120.0 psf: All other applications (See General Limitation #9)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(2): All layers of insulation adhered with approved adhesive. Membranes 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**

Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft^2
DensDeck, DensDeck Prime **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. Additional layers of insulation to be adhered with 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: (Optional) Top insulation is primed with PG 100 or WB-3000.

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

Maximum Design Pressure: -75 psf: Base sheet adhered to DensDeck or DensDeck Prime (See General Limitation #9)
-127.5 psf: All other applications (See General Limitation #9)

Membrane Type:	SBS/APP
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(3):	All layers of insulation adhered with approved adhesive. Membranes 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/ft²**
ACFoam-II, Polytherm, Polytherm G, ACFoam-III, ENRGY 3, H-Shield, Polytherm-H, H-Shield CG, Multi-Max FA-3		
Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck, DensDeck Prime		
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. Additional layers of insulation to be adhered with 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: (Optional)	Top insulation is primed with PG 100, or WB-3000.
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: (Optional)	Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.
Maximum Design Pressure:	-75 psf: Base sheet adhered to DensDeck or DensDeck Prime (See General Limitation #9) -150.0 psf: All other applications (See General Limitation #9)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(4): All layers of insulation adhered with approved adhesive. Membranes 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
Polytherm, Polytherm-H, Polytherm G, ACFoam-II, ACFoam-III, H-Shield Minimum 1.0" thick	**N/A**	**N/A**

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime, DEXcell FA Glass Mat Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered with OlyBond 500, OlyBond 500 Green, Millennium One Step Foamable Insulation Adhesive, Millennium One Step Green Foamable Insulation Adhesive, or Millennium PG-1 Pump Grade Adhesive in beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, adhered to deck with PG 350 adhesive at a rate of 2.0 gal/sq.

Ply Sheet: (Optional) One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, adhered to deck with PG 350 adhesive at a rate of 2.0 gal/sq.

Or

One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Polybond, Polyflex, Polybase V*, Elastoshield VP HT, torch applied.
*Requires torch-applied cap sheet.

Membrane: One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoflex V G, Elastoflex V G FR, Elastoshield TS G FR torch applied or adhered with PG 350 adhesive at a rate of 2.0 gal/sq.

Or

One ply of Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, 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: -127.5 psf; (See General Limitation #9.)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(5): All layers of insulation adhered with approved asphalt or adhesive. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ACFoam-III, Polytherm, Polytherm-H, Polytherm G, H-Shield Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² or OlyBond 500 or OlyBond 500 Green Adhesive at a rate of 1 gal/100ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: (*Optional if using ply sheet in hot asphalt*) 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.

Ply Sheet: (*Optional if using base sheet in hot asphalt*) 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 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 psf (See General Limitation #9)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(6): All layers of insulation adhered with approved adhesives. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, Polytherm, H-Shield, Polytherm-H Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered with OlyBond 500, OlyBond 500 Green, Millennium One Step Foamable Insulation Adhesive, Millennium One Step Green Foamable Insulation Adhesive or Millennium PG-1 Pump Grade Adhesive in ¾" - 1" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

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

Base Sheet: (*Optional if using ply sheet in hot asphalt*) One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Or

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

Or

One or more plies 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: (*Optional if using base sheet in hot asphalt*) One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Or

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

Membrane:	One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoshield TS G, Elastoshield TS G FR, Polybond G, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko 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 psf (See General Limitation #9)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(7): All layers of insulation adhered with approved asphalt. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

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

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2 or OlyBond at a rate of 1 gal/100ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: One ply of Polybond, Polyflex torch applied.

Ply Sheet: (Optional) One or more plies of Polybond, Polyflex, torch applied.

Membrane: One ply of Polybond G, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, 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: -232.5 psf (See General Limitation #9)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(8): All layers of insulation adhered with approved adhesives. Membranes 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/ft²**
ACFoam-II, Polytherm, H-Shield, Polytherm-H Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered with OlyBond 500, OlyBond 500 Green, Millennium One Step Foamable Insulation Adhesive, Millennium One Step Green Foamable Insulation Adhesive, or Millennium PG-1 Pump Grade Adhesive in 3/4" to 1" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Primer: (Optional) Top insulation is primed with WB-3000.

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

Maximum Design Pressure: -232.5 psf (See General Limitation #9)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(9): All layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation.

All General and System limitations apply.

Primer: Primed with PG 100

(Optional)

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Polytherm, Polytherm-H, Polytherm G, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield, H-Shield CG, Multi-Max FA-3		
Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Polytherm, Polytherm-H, Polytherm G, ACFoam-II, ACFoam-III, ENRGY 3, H-Shield, H-Shield CG, Multi-Max FA-3		
Minimum 1.5" thick	**N/A**	**N/A**

Note: Apply insulation in Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Insulation Adhesive or Millennium PG-1 Pump Grade Adhesive in continuous ½" to ¾" beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Insulation Adhesive or Millennium PG-1 Pump Grade Adhesive in continuous ½" to ¾" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: Top 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 self-adhered.

Membrane: One ply of Polybond, Polyflex G, Polyfresko 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: -232.5 psf (See General Limitation #9)

Membrane Type:	SBS/APP
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(10):	All layers of insulation adhered with approved asphalt. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ENRGY 3, ACFoam-II, Polytherm, H-Shield, Polytherm-H **Minimum 1.5" thick**	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck **Minimum ¼" thick**	**N/A**	**N/A**
Structodek High Density Fiberboard Roof Insulation **Minimum ½" thick**	**N/A**	**N/A**
FescoBoard **Minimum ¾" thick**	**N/A**	**N/A**

Note: Concrete deck shall be primed with PG 100 and allowed to dry. All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: (*Optional if using ply sheet in hot asphalt*) One ply of Elastobase 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 Polybond, Polyflex, torch applied.

Or

One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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 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:	-277.5 psf (for FescoBoard) (See General Limitation #9) -285 psf (for Structodek High Density Wood Fiberboard) (See General Limitation #9) -510 psf (for DensDeck) (See General Limitation #9)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(11): All layers of insulation adhered with approved asphalt to adhered anchor sheet. Membranes subsequently adhered to insulation.

All General and System limitations apply.

Anchor Sheet: One ply of Elastoflex SA V, Elastoflex SA V FR, Elastoflex SA V PLUS, Elastoflex SA V PLUS FR self-adhered on primed concrete deck followed by one ply of Polybond, Polyflex, torch applied.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, Polytherm Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck, DensDeck Prime Minimum ¼" thick	**N/A**	**N/A**
Structodek High Density Fiberboard Minimum ½" thick	**N/A**	**N/A**
FescoBoard Minimum ¾" thick	**N/A**	**N/A**

Note: Concrete deck shall be primed with PG 100 and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: (*Optional if using ply sheet in hot asphalt*) One ply of Elastobase 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 Polybond, Polyflex, torch applied. Or One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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 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:	-280 psf (See General Limitation #9)

Membrane Type:	SBS/APP
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(12):	All layers of insulation adhered with approved adhesives. Membranes 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/ft²**
ACFoam-II, ACFoam-III, Polytherm, Polytherm G Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck Prime Minimum ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered with Millennium One Step Foamable Insulation Adhesive, Millennium One Step Green Foamable Insulation Adhesive or Millennium PG-1 Pump Grade Adhesive in 3/4" to 1" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

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

Base Sheet: One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, Polybase V*, torch applied.

Or

One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polyglass G2 Base, adhered to deck with Polyplus 35, or PG 350 adhesive at a rate of 2.0 gal/sq.

Or

One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, adhered to deck in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Or

One or more plies 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 ply or cap sheet.

Ply Sheet: (Optional)	One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, Polybase V, torch applied. Or One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polyglass G2 Base, adhered with Polyplus 35, PG 350 adhesive at a rate of 2.0 gal/sq. 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. Or One or more plies 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 Elastoflex S6 G, Elastoflex S6 G FR, Elastoflex V G, Elastoflex V G FR, Elastoshield TS G, Elastoshield TS G FR torch applied. Or One ply of Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, 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:	-282.5 psf (See General Limitation #9)

Membrane Type:	SBS/APP
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(14):	All layers of insulation adhered with approved adhesives. Membranes 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/ft²**
ACFoam-II, ACFoam-III, Polytherm, Polytherm G Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime, DEXcell FA Glass Mat Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered with OlyBond 500, OlyBond 500 Green, Millennium One Step Foamable Insulation Adhesive, Millennium One Step Green Foamable Insulation Adhesive, or Millennium PG-1 Pump Grade Adhesive in ¾" - 1" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

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

Base Sheet: One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, Polybase V*, torch applied.

Or
One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polyglass G2 Base, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or with Polyplus 35, PG 350 adhesive at a rate of 2.0 gal/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 ply or cap sheet.

Ply Sheet: (Optional) One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, Polybase V, torch applied.

Or
One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polyglass G2 Base, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or with Polyplus 35, PG 350 adhesive at a rate of 2.0 gal/sq.

Or

	One or more plies 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 Elastoflex S6 G, Elastoflex S6 G FR, Elastoflex V G, Elastoflex V G FR, Elastoshield TS G, Elastoshield TS G FR, torch applied. Or One ply of Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, 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:	-322.5 psf (See General Limitation #9)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(15): All layers of insulation adhered with approved asphalt. Membranes subsequently adhered to insulation.

All General and System limitations apply.

Primer: Concrete deck shall be primed with PG100 .

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ACFoam-II, Polytherm, ACFoam-III, Polytherm G, ENRGY 3, H-Shield, Polytherm-H, H-Shield CG, Multi-Max FA-3		
Minimum 1.5" thick	**N/A**	**N/A**

Note: Apply insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: (Optional) Insulation layer is primed with WB-3000.

Base Sheet: One ply of Elastoflex SA V, Elastoflex SA V FR, Elastoflex SA V PLUS, Elastoflex SA V PLUS FR, self-adhered.

Membrane: One ply of Polybond, Polyflex G, Polyfresko 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: -480.0 psf (See General Limitation #9)

Membrane Type:	SBS/APP
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(16):	All layers of insulation adhered with approved asphalt. Membranes subsequently adhered to insulation.

All General and System limitations apply.

Primer: Concrete deck shall be primed with PG 100

One or more layers of any of the following insulations:

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, Polytherm, Polytherm G, ACFoam-III Minimum 2" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Apply insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: (Optional)	Top insulation is primed with WB-3000.
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: (Optional)	Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.
Maximum Design Pressure:	-547.5 psf (See General Limitation #9)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type B: Base layer of insulation mechanically fastened, top layer adhered with approved asphalt. Membranes 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/ft²
ENRGY 3, H-Shield, Polytherm-H, ACFoam-II, Polytherm Minimum 1.5" thick	**1 with 3; 4 with 6; 10 with 11**	**1:1.33 ft²**

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See RAS 117 for fastening details.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	**N/A**	**N/A**
FescoBoard Minimum ¾" thick	**N/A**	**N/A**

Note: Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as Base Layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: (*Optional if using ply sheet in hot asphalt*) One ply of Elastobase 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 Polybond, Polyflex, torch applied.

Or

One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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 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.
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 psf; (See general limitation #7.)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type C(1): All layers of insulation are mechanically attached to roof deck. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft^2
H-Shield, Polytherm-H, ACFoam-II, Polytherm, ISO 95+GL, ENRGY 3 Minimum 2.0" thick	**N/A**	**N/A**

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
SECUROCK Gypsum-Fiber Roof Board Minimum 1/2" thick	**1 with 3; 4 with 6**	**1:1.78 ft^2**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density.

Base Sheet: (*Optional if using ply sheet in hot asphalt*) One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, 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 Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, Polybase V, torch applied.

Ply Sheet: (*Optional if using base sheet in hot asphalt*) One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Or

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

Membrane: One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoshield TS G, Elastoshield TS G FR, Polybond G, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko 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 psf; (See general limitation #7.)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type C(2): All layers of insulation are mechanically attached to roof deck. Membranes subsequently adhered to insulation.

All General and System limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ENRGY 3, H-Shield, Polytherm-H, ACFoam-II, Polytherm Minimum 1.5" thick	**1 with 3; 4 with 6; 10 with 11**	**1:1.33 ft²**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Primer: (Optional) Insulation is primed with WB-3000.

Base Sheet: One ply of Elastoflex SA V, Elastoflex SA V FR, Elastoflex SA V PLUS, Elastoflex SA V PLUS FR self-adhered.

Ply Sheet: (Optional) One or more plies of Polybond, Polyflex torch applied.

Or

One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, one or 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.

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

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

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type C(3): All layers of insulation are mechanically attached to roof deck. Membranes 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/ft²
ENRGY 3, H-Shield, Polytherm-H, Multi-Max FA-3, EnergyGuard Polyiso Insulation		
Minimum 1.5" thick	**N/A**	**N/A**

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board		
Minimum ¼" thick	**1 with 3; 4 with 6; 10 with 11**	**1:1.33 ft²**
Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	**1 with 3; 4 with 6; 10 with 11**	**1:1.33 ft²**

Base Sheet: (*Optional if using ply sheet in hot asphalt*) One or more plies of Elastobase 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 Polybond, Polyflex torch applied.

Or

One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, 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 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: -82.5 psf; (See General limitation #7.)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(1): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

All General and System limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ENRGY 3, H-Shield, Polytherm-H, Multi-Max FA-3, EnergyGuard Polyiso Insulation, ACFoam-II, Polytherm		
Minimum 1" thick	**N/A**	**N/A**

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

Base Sheet: One ply of Elastoflex S6, Elastoshield VP HT, fastened to the deck as described below:

Fastening: Attach base sheet using Trufast #14 HD Stainless Steel Bi-Metal Fasteners or Trufast #15 EHD Fasteners with Trufast 2.4" Scoop Seam Plates spaced 12" o.c. in a 5" heat welded side lap.

Ply Sheet: (Optional) One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, torch applied.

Membrane: One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoflex V G, Elastoshield TS G torch or hot asphalt applied.

Or

One ply of Polyflex G FR, Polyfresko G FR 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: -45.0 psf; (See General Limitation #7.)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(2): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

All General and System limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ENRGY 3, H-Shield, Polytherm-H, Multi-Max FA-3, EnergyGuard Polyiso Insulation, ACFoam-II, Polytherm Minimum 1" thick	**N/A**	**N/A**

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

Base Sheet: One ply of Elastoflex S6, Elastoshield VP HT, fastened to the deck as described below:

Fastening #1: Attach base sheet using Trufast #14 HD Stainless Steel Bi-Metal Fasteners or Trufast #15 EHD Fasteners with Trufast 2-3/4" Barbed Metal Seam Plate (EHD) spaced 12" o.c. in a 5" heat welded or torch sealed side lap.
(Maximum Design Pressure –45.0 psf – General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #14 HD Stainless Steel Bi-Metal Fasteners or Trufast #15 EHD Fasteners with Trufast 2-3/4" Barbed Metal Seam Plate (EHD) spaced 6" o.c. in a 5" heat welded or torch sealed side lap.
(Maximum Design Pressure –60.0 psf – General Limitation #7.)

Ply Sheet: (Optional) One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, torch applied

Membrane: One ply of Elastoflex S6 G, Elastoflex S6 G FR torch or hot asphalt applied.

Or

One ply of Polyflex G FR, Polyfresko G FR 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: See Fastening Options Above

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(3): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

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
Any approved Polyisocyanurate listed in Table 2 Minimum 1" thick	**N/A**	**N/A**

Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft^2
FescoBoard Minimum ¾" thick	**N/A**	**N/A**
Structodek High Density Fiberboard Minimum ½" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

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

Base Sheet: One ply of Elastobase V, Elastobase P, Elastoshield VP HT, Polybase V*, Polyglass G2 Base, fastened to the deck as described below:
*Requires torch-applied ply or cap sheet

Fastening: Attach base sheet using Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 fasteners with Dekfast PLT-H-2-7/8 plates or Polygrip Fastener #14 or Polygrip Fastener #15 with Polygrip Hex Plates or Trufast #14 HD or Trufast #15 EHD Fasteners with Trufast 3" Metal Insulation Plates or OMG #14 Roofgrip spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One or more plies of Polybond, Polyflex torch applied.

Or

One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, one or more plies of Type IV or VI ply sheet adhered in 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, 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:	-52.5 psf; (See General limitation #7.)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(4): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

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, H-Shield, Polytherm-H, Multi-Max FA-3, EnergyGuard Polyiso Insulation		
Minimum 1" thick	**N/A**	**N/A**

Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft^2
FescoBoard		
Minimum ¾" thick	**N/A**	**N/A**
Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board		
Minimum ¼" thick	**N/A**	**N/A**

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

Base Sheet: One ply of Polybase V* or Polyglass G2 Base fastened to the deck as described below:
*Requires torch-applied ply or cap sheet.

Fastening: Attach base sheet using SFS Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 fasteners with Dekfast PLT-H-2-7/8 plates, Polygrip Fasteners #14 or Polygrip Fasteners #15 with Polygrip Hex Plates or Trufast #14 HD Stainless Steel Bi-Metal Fasteners or Trufast #15 EHD Fasteners with Trufast 3" Metal Insulation Plates or OMG #14 Roofgrip fasteners with Flat Bottom Metal Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One or more plies of Polybond, Polyflex torch applied.

Or

One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, one or more plies of Type IV or VI ply sheet adhered in 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, 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:	-52.5 psf; (See General limitation #7)

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(5): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

All General and System limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
H-Shield, Polytherm-H, ACFoam Composite, ACFoam-II, Polytherm, Polytherm G, ACFoam-III, ENRGY 3		
Minimum 1.5" thick	**N/A**	**N/A**
FescoBoard		
Minimum ¾" thick	**N/A**	**N/A**
Structodek High Density Fiberboard Roof Insulation		
Minimum 1" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to installation of the base sheet, at an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density.

Base Sheet: One ply of Polybond, Polyflex mechanically fastened to the deck as described below:

Fastening #1: Attach base sheet using Polygrip Fastener #14 or Dekfast DF-#14-PH3 fasteners with approved plates spaced 12" o.c. in a minimum 6" wide side lap. The side lap is either torch or hot air welded closed.
(Maximum Design Pressure –82.5 psf – See General Limitation #7.)

Fastening #2: (*Polyflex only*) Attach base sheet using Polygrip Fasteners #15 or Dekfast DF-#15-PH3 fasteners with *isofast* PLT-R-2-3/8-BL plates spaced 12" o.c. in a 5" heat welded side lap.
(Maximum Design Pressure –82.5 psf – See General Limitation #9)

Membrane: One ply of Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, 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: See Fastening Options above

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(6): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

All General and System limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ENRGY 3, H-Shield, Polytherm-H, Multi-Max FA-3, EnergyGuard Polyiso Insulation, ACFoam-II, Polytherm Minimum 1" thick	**N/A**	**N/A**

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

Base Sheet: One ply of Elastoshield VP HT fastened to the deck as described below:

Fastening #1: Attach base sheet using Trufast #14 HD Stainless Steel Bi-Metal Fasteners or Trufast #15 EHD Fasteners with Trufast 2.4 Barded Metal Seam Plate or Trufast 2-3/4" Barbed Metal Seam Plate (EHD) or Trufast 2.4" Scoop Seam Plates or Dekfast DF-#15-PH3 fasteners with Dekfast PLT-R-2-3/8-6B plates spaced 12" o.c. in a 5" heat welded or torch sealed side lap.
(Maximum Design Pressure –82.5 psf – General Limitation #7.)

Fastening #2: Attach base sheet using Trufast #14 HD Stainless Steel Bi-Metal Fasteners or Trufast #15 EHD Fasteners with Trufast 2.4 Barded Metal Seam Plate or Trufast 2-3/4" Barbed Metal Seam Plate (EHD) or Trufast 2.4" Scoop Seam Plates or Dekfast DF-#15-PH3fasteners with Dekfast PLT-R-2-3/8-6B plates spaced 6" o.c. in a 5" heat welded or torch sealed side lap.
(Maximum Design Pressure –97.5 psf – General Limitation #7.)

Ply Sheet: (Optional) One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, torch applied

Membrane: One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoflex V G, Elastoshield TS G torch or hot asphalt applied.

Or

One ply of Polyflex G FR, Polyfresko G FR 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: See Fastening Options Above

Membrane Type: SBS/APP

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(7): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

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, H-Shield, Polytherm-H, Multi-Max FA-3, EnergyGuard Polyiso Insulation		
Minimum 1" thick	**N/A**	**N/A**

Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft^2
FescoBoard		
Minimum ¾" thick	**N/A**	**N/A**
Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	**N/A**	**N/A**
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board		
Minimum ¼" thick	**N/A**	**N/A**

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

Base Sheet: One ply of Polybond, Polyflex fastened to the deck as described below:

Fastening: Attach base sheet using Dekfast DF-#14-PH3 fasteners with Dekfast PLT-H-2-7/8 plates, Polygrip Fasteners #14 with Polygrip Hex Plates or OMG #14 Roofgrip fasteners with Flat Bottom Metal Plates spaced 12" o.c. in a 4" lap and 18" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One or more plies of Polybond, Polyflex torch applied.

Or

One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, one or more plies of Type IV or VI ply sheet adhered in 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:	-112.5 psf; (See General limitation #7.)
Membrane Type:	APP
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type E:	Base sheet is mechanically fastened to the roof deck. Membranes subsequently adhered

All General and System limitations apply.

Base Sheet:	One ply of Polybond, Polyflex mechanically fastened to the deck as described below:
Fastening:	Attach base sheet using Polygrip Fasteners #15 or Dekfast DF-#15-PH3 with *isofast* PLT-R-2-3/8-BL plates spaced 12” o.c. in a 6” heat welded side lap.
Membrane:	One ply of Polybond G, Polyflex G, Polyfresko 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:	-82.5 psf; (See General Limitation #7.)

Membrane Type:	SBS/APP
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(1):	Membranes adhered to roof deck

All General and System limitations apply.

Base Sheet:	One ply of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, adhered to deck with PG 350 adhesive at a rate of 2.0 gal/sq.
Ply Sheet: (Optional)	One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, adhered to deck with PG 350 adhesive at a rate of 2.0 gal/sq. Or One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, Polybond, Polyflex, Polybase V*, torch applied. *Requires torch-applied cap sheet.
Membrane:	One ply of Elastoflex S6 G, Elastoflex S6 G FR, Elastoflex V G, Elastoflex V G FR, Elastoshield TS G FR torch applied or adhered with PG 350 adhesive at a rate of 2.0 gal/sq. Or One ply of Polybond, Polybond G, Polyflex, Polyflex G, Polyflex G FR, Polyfresko G, Polyfresko G FR, 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:	-105 psf; (See General Limitation #9.)

Membrane Type: SBS/APP

Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type F(2): Membranes adhered to roof deck

All General and System limitations apply.

Note: Concrete deck shall be primed with PG 100 and allowed to dry prior to application of base sheet.

Base Sheet: One or more plies of Elastoflex SA V, Elastoflex SA V FR, Elastoflex SA V PLUS, Elastoflex SA V PLUS FR self-adhered.

Membrane: One ply of Polybond, Polyflex 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: -315.0 psf; (See General Limitation #9.)

Membrane Type: SBS

Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type F(3): Membranes adhered to roof deck

All General and System limitations apply.

Note: Concrete deck shall be primed with PG 100 and allowed to dry prior to application of sheets.

Membrane: One ply of Elastoflex S6 G or Elastoflex V 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: -495 psf; (See General Limitation #9.)

Membrane Type:	SBS/APP
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(4):	Membranes adhered to roof deck

All General and System limitations apply.

Note: Concrete deck shall be primed with PG 100 and allowed to dry prior to application of base sheet.

Base Sheet: (Optional)	One ply of Elastobase 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 Polybond, Polyflex torch applied. Or One or more plies of Elastobase V, Elastobase P, Elastoflex S6, Elastoflex V, Elastoshield VP HT, one or more plies of ASTM D2178 Type IV or VI ply sheet adhered in hot asphalt.
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:	-622.5 psf; (See General Limitation #9.)

CONCRETE DECK 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 Professional Engineer, Registered Architect, or Registered Roof Consultant.

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