



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

CertainTeed Corporation
18 Moores Road
Malvern, PA 19355

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: CertainTeed 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 revises NOA# No. 14-0224.04 and consists of pages 1 through 87.
 The submitted documentation was reviewed by Alex Tigera.



NOA No.: 14-0529.03
Expiration Date: 05/19/18
Approval Date: 09/24/15
Page 1 of 87

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Material:	APP/SBS
Deck Type:	Concrete
Maximum Design Pressure:	-542.5 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>
All Weather/Empire Base Sheet	39 ³ / ₈ " x 65' 10"; Roll weight: 70 lbs. (2 squares)	ASTM D 4601, Type II UL Type G2	Asphalt coated, fiberglass reinforced base sheet.
Flexiglas Base Sheet	39 ³ / ₈ " x 98' 9"; Roll weight: 90 lbs. (3 squares)	ASTM D 4601, Type II UL Type G2	Modified Bitumen coated fiberglass base sheet.
Flintlastic Base 20	39 ³ / ₈ " x 49' 6"; Roll weight: 90 lbs. (1.5 squares)	ASTM D 6163, Grade S, Type I	Modified Bitumen coated fiberglass base sheet.
Flintglas Ply Sheet Type IV	39 ³ / ₈ " x 164' 7"; Roll weight: 38 lbs. (5 squares)	ASTM D 2178, Type IV UL Type G1	Fiberglass, asphalt impregnated ply sheet.
Flintglas Premium Ply Sheet Type VI	39 ³ / ₈ " x 164' 7"; Roll weight: 40 lbs. (5 squares)	ASTM D 2178, Type VI UL Type G1	Fiberglass, asphalt impregnated ply sheet.
Flintlastic STA	39 ³ / ₈ " x 32' 10"; Roll weight: 87 lbs. (1 square)	ASTM D 6222, Grade S, Type I	Smooth surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application.
Flintlastic GTA	39 ³ / ₈ " x 32' 10"; Roll weight: 105 lbs. (1 square)	ASTM D 6222, Grade G, Type I	Granule surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application.
Flintlastic GTA-FR	39 ³ / ₈ " x 32' 10"; Roll weight: 105 lbs. (1 square)	ASTM D 6222, Grade G, Type I	Granule surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application.
Flintlastic GMS	39 ³ / ₈ " x 32' 10"; Roll weight: 94 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Granule surfaced SBS Modified Bitumen membrane with non-woven polyester mat reinforcement for mop application.



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>
Flintlastic Premium GMS	39 3/8" x 32' 10"; Roll weight: 101 lbs. (1 square)	ASTM D 6164, Grade G, Type II	Granule surfaced SBS Modified Bitumen membrane with non-woven polyester mat reinforcement for mop application.
Flintlastic FR-P	39 3/8" x 32' 10"; Roll weight: 101 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application.
Flintlastic Premium FR-P	39 3/8" x 32' 10"; Roll weight: 101 lbs. (1 square)	ASTM D 6164, Grade G, Type II	Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application.
Flintlastic FR Dual Cap	39 3/8" x 32' 10"; Roll weight: 103 lbs. (1 square)	ASTM D 6162, Grade G, Type I	Granule surfaced SBS modified bitumen membrane with a nonwoven polyester/fiberglass composite mat reinforcement for use in cold or mop applications.
Flintlastic FR Cap 30	39 3/8" x 32' 10"; Roll weight: 86 lbs. (1 square)	ASTM D 6163, Grade G, Type I	Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications.
Flintlastic FR Cap 30 T	39 3/8" x 32' 10"; Roll weight: 100 lbs. (1 square)	ASTM D 6163, Grade G, Type I	Granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for torch application.
Flintlastic Base 20 T	39 3/8" x 33'; Roll Weight: 81 lbs. (1 square)	ASTM D 6163, Grade S, Type I	Modified Bitumen, coated fiberglass base sheet for torch application.
Flintlastic FR Cap 30 CoolStar	39 3/8" x 32' 10"; Roll weight: 88 lbs. (1 square)	ASTM D 6163, Grade G, Type I	Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications. Covered with reflective CoolStar Coating.
Flintlastic FR Cap 30 T CoolStar	39 3/8" x 32' 10"; Roll weight: 102 lbs. (1 square)	ASTM D 6163, Grade G, Type I	Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications. Covered with reflective CoolStar Coating.



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>
Flintlastic GTA CoolStar	39 3/8" x 32' 10"; Roll weight: 106 lbs. (1 square)	ASTM D 6222, Grade G, Type I	Granule surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application. Covered with reflective CoolStar Coating.
Flintlastic GTA-FR CoolStar	39 3/8" x 32' 10"; Roll weight: 106 lbs. (1 square)	ASTM D 6222, Grade G, Type I	Granule surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application. Covered with reflective CoolStar Coating.
Flintlastic GMS CoolStar	39 3/8" x 32' 10"; Roll weight: 97 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Granule surfaced SBS Modified Bitumen membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating.
Flintlastic Premium GMS CoolStar	39 3/8" x 32' 10"; Roll weight: 103 lbs. (1 square)	ASTM D 6164, Grade G, Type II	Granule surfaced SBS Modified Bitumen membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating.
Flintlastic FR-P CoolStar	39 3/8" x 32' 10"; Roll weight: 103 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating.
Flintlastic Premium FR-P CoolStar	39 3/8" x 32' 10"; Roll weight: 103 lbs. (1 square)	ASTM D 6164, Grade G, Type II	Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating.
Flintlastic Ultra Poly SMS Base Sheet	39 3/8" x 32' 10"; Roll weight: 90 lbs. (1 square)	ASTM D 6164, Grade S, Type I	Smooth surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop applications.
Glasbase Base Sheet	36" x 98'9"; Roll weight: 75 lbs. (3 squares)	ASTM D 4601, Type II UL Type G2	Asphalt coated, fiberglass base sheet.



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>
Flintlastic Poly SMS Base Sheet	39 3/8" x 64' 3"; Roll weight: 90 lbs. (2 squares)	ASTM D 4601, Grade S, Type II UL Type G2	Modified Bitumen coated polyester base sheet.
Yosemite Venting Base Sheet	39 3/8" x 32' 10"; Roll weight: 85 lbs. (1 square)	ASTM D 3909 ASTM D 4897, Type II UL G3	Mineral Surfaced fiberglass reinforced buffer sheet.
Flintlastic APP Base T	39 3/8" x 65' 4"; Roll weight: 100 lbs. (2 squares)	ASTM D6509	Modified Bitumen coated fiberglass base sheet.
Flintlastic Ultra Glass SA	39 3/8" x 33' 11"; Roll weight: 73 lbs. (1 square)	ASTM D1970	Self-adhering, fiberglass reinforced, SBS modified bitumen base/ply sheet.
Black Diamond™ Base Sheet	36" x 68' 7"; Roll weight: 78 lbs. (2 squares)	ASTM D 1970	Self-adhering fiberglass reinforced modified bitumen base sheet
Flintlastic SA PlyBase	39 3/8" x 64' 6"; Roll weight: 86 lbs. (2 squares)	ASTM D 1970	Self-adhering, fiberglass reinforced, SBS modified bitumen base/ply sheet.
FlintBond Brush	5 gallon pails	ASTM D3019	Cold applied, SBS polymer modified asphalt adhesive.

APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
FlintBoard ISO	Polyisocyanurate foam insulation	CertainTeed Corp.
FlintBoard ISO Cold	Polyisocyanurate foam insulation	CertainTeed Corp.
FlintBoard _H ISO	Polyisocyanurate foam insulation	CertainTeed Corp.
FlintBoard _H ISO Cold	Polyisocyanurate foam insulation	CertainTeed Corp.
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Perlite Insulation	Perlite insulation board	Generic
H-Shield	Polyisocyanurate foam insulation	Hunter Panels LLC
H-Shield-CG	Polyisocyanurate foam insulation	Hunter Panels LLC
DensDeck, DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC
ENRGY 3, ENRGY 3 25 PSI	Polyisocyanurate foam insulation	Johns Manville Corp.
FescoBoard	Expanded mineral fiber insulation	Johns Manville Corp.



APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
SECUROCK Gypsum-Fiber Roof Board	Gypsum insulation	USG Corp.
DuraBoard	Expanded mineral fiber insulation	Johns Manville Corp.
Structodek High Density Fiberboard Roof Insulation	Wood fiber insulation board	Blue Ridge Fiberboard, Inc.
Georgia-Pacific High Density Roof Fiberboard	Wood fiber insulation board	Georgia-Pacific Wood Products, LLC
ISO 95+ GL	Polyisocyanurate Insulation	Firestone Building Products Company, LLC

APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Dekfast 14	Insulation fastener for wood, steel and concrete decks	various	SFS Intec, Inc.
2.	Dekfast 15 HS	Insulation fastener for wood, steel and concrete decks	various	SFS Intec, Inc.
3.	Dekfast DekSpike	Insulation fastener for concrete decks	various	SFS Intec, Inc.
4.	Dekfast Galvalume Steel Hex Plate	Galvalume hex stress plate.	2 7/8" x 3 1/4"	SFS Intec, Inc.
5.	Dekfast Dekflat Round Lock Plate	Polypropylene locking plate.	3" x 3 1/4"	SFS Intec, Inc.
6.	OMG #14 Roofgrip	Insulation fastener	various	OMG, Inc.
7.	ASAP RoofGrip Pre-Assembled System	Pre-assembled Insulation fastener and plate	various	OMG, Inc.
8.	OMG 3 in. Round Metal Plates	Galvalume AZ50 steel plate	3" round	OMG, Inc.
9.	Dekfast System ES #14 Plastic	Pre-assembled Insulation fastener and plate	various	SFS Intec, Inc.
10.	Trufast #14 HD Fastener	Insulation fastener for wood and steel decks	various	Altenloh, Brinck & Co. U.S., Inc.
11.	Trufast 3" Metal Insulation Plate	Galvalume AZ50 steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
12.	Trufast 2.4" Barbed Metal Seam Plates	Galvalume AZ50 steel plate	2.4" round	Altenloh, Brinck & Co. U.S., Inc.
13.	FlintFast #14	Insulation and membrane fastener	Various	CertainTeed Corp.



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
14.	FlintFast 3” Insulation Plate	Galvalume AZ50 steel plate	3” round	CertainTeed Corp.
15.	Trufast #15 EHD Fastener	Coated carbon steel screw	Various	Altenloh, Brinck & Co. U.S., Inc.
16.	Trufast 2” Metal Seam Plate	Galvalume steel stress plate	2” round	Altenloh, Brinck & Co. U.S., Inc.
17.	Dekfast Galvalume Steel 3” Round	Steel, Galvalume AZ50 stress plate for use with all Dekfast fasteners	3” round	SFS Intec, Inc.
18.	OMG 3” Galvalume Steel Plate	Galvalume coated steel plate for use with approved fasteners screw.	3” round	OMG, Inc.
19.	3 in. Ribbed Galvalume Plate	Round Galvalume plated steel stress plate with reinforcing ribs for use with OMG fasteners.	3” round	OMG, Inc.
20.	AccuTrac Plate	Galvalume steel plate for use with Standard Roofgrip and Standard Hex Head fasteners.	3” square	OMG, Inc.
21.	AccuTrac Flat Bottom	A2-SS aluminized steel plate for use with #12 Roofgrip, #14 Roofgrip and #15 Roofgrip.	3” square	OMG, Inc.
22.	Flat Bottom Metal Plate	A2-SS aluminized steel plate for use with #12, #14 or #15 Roofgrip.	3” square	OMG, Inc.
23.	Trufast 3” Recessed Metal Insulation Plate	Galvalume steel stress plate for use with Trufast fasteners	3” round	Altenloh, Brinck & Co. U.S., Inc.
24.	Trufast 3” TL Insulation Plate	Galvalume steel stress plate for use with Trufast TL fasteners	3” round	Altenloh, Brinck & Co. U.S., Inc.
25.	Dekfast Dekflat Round Plastic Lock Plate	Polypropylene round stress plat with a recessed hole for use with #12, #14 and #15 Dekfast fasteners	3” diameter	SFS Intec, Inc.



APPROVED SURFACING/COATING OPTIONS:

TABLE 4

Chosen components must be applied according to manufacturer’s application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

<u>System Number</u>	<u>Manufacturer</u>	<u>Application</u>
1.	Generic	Gravel applied at 400 lbs/sq., adhered with flood coat of asphalt at 60 lbs/sq.
2.	Generic	Slag applied at 300 lbs/sq., adhered with flood coat of asphalt at 60 lbs/sq.
3.	Karnak Corp.	Karnak (#97 AF) Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal/sq.
4.	CertainTeed Corp.	FlintCoat A-150 applied at an application rate of 1.5 gal/sq.
5.	Gardner Asphalt Corp.	APOC #212 Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal/sq.
6.	Gardner Asphalt Corp.	APOC #400 Sunbrite applied at an application rate of 3 gal./sq.



EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corp.	FM 4470	J.I. 3Y8A1.AM	03/23/96
	FM 4470	J.I. 0D3A3.AM	04/04/97
	FM 4470	J.I. 2D0A0.AM	12/23/98
	FM 4470	J.I. 1D7A4.AM	11/09/98
	FM 4470	3023458	07/18/06
	FM 4470	3024177	07/18/06
	FM 4470	3031350	09/27/07
	FM 4470	3046104	08/13/13
	FM 4470	3039046	06/15/10
	FM 4470	3048520	09/19/13
	FM 4470	3024311	11/01/06
Underwriters Laboratories, Inc.	UL 790	R11656	01/11/13
United States Testing Company	ASTM D 5147	97457-4	06/03/88
	ASTM D 5147	97-457-2R	12/02/87
Momentum Technologies, Inc.	ASTM D 4601	AX31G8D	09/05/08
	ASTM D6164	AX31G8F	06/05/09
	ASTM D6222	AX31G8G	06/05/09
	ASTM D 3909/ D 4897	AX31G8C	09/05/08
Trinity ERD	TAS 114(J)	#3504.06.01-1	06/05/01
	TAS 117 (B)	3503.10.06	10/10/06
	TAS 117 (B)	O6490.04.07-R1	06/27/07
	TAS 114 (H)	Letter	04/05/06
	TAS 114	3533.01.06	01/06/06
	TAS 114	3521.07.04	07/29/04
	TAS 117 (B)/ ASTM D 6862	C8500SC.11.07	11/30/07
	TAS 114	C8370.08.08	08/19/08
	ASTM Physical Properties	C10080.09.08-R4	03/25/10
	ASTM D6164/D4798	C31410.01.11-2	01/10/11
	ASTM D4601	C40050.09.12-1	09/28/12
	ASTM D1970	C40050.09.12-2	09/28/12
	ASTM D5147/D4798	C31410.10.10-R1	11/01/12
	ASTM D5147/D4798	C31410.01.11-1-R1	11/01/12
	ASTM D4798	C31410.01.11-2A-R1	02/21/13
	ASTM D4798	C31410.12.13	12/05/13
	ASTM D6222	C40050.12.13-R1	12/31/13
	TAS 117 B	C35500.02.11	02/09/11
	TAS 117 & TAS 114	C30560.03.10	03/18/10
	TAS 117 & TAS 114	C30560.06.10	06/10/10
	ASTM D1876	C35460.05.11	06/16/11
	ASTM D1876, TAS 114 (H), TAS 117 (B)	C42110.08.12	08/13/12
	FM 4474/TAS 114	C31420.08.10	09/21/10



EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
	FM 4474/TAS 114	C37820.07.12	07/24/12
	ASTM D1876, TAS 114 (H), FM 4474	C45620.03.14	03/27/14
	ASTM D1876, TAS 114 (H), FM 4474	C47320.03.14-R1	04/01/15
PRI Construction Materials Technologies LLC	ASTM D6163	CTC-032-02-01	01/22/08
	ASTM D6163	CTC-066-02-01	08/09/11
	ASTM D6222	CTC-070-02-01	08/09/11
	ASTM D6164/D4798	CTC-093-02-01	08/09/11
	ASTM D2178	CTC-122-02-01	03/13/12
	ASTM D2178	CTC-123-02-01	03/13/12
	ASTM D4601	CTC-127-02-01	03/13/12
	ASTM D6163	CTC-128-02-01	06/11/12
	ASTM D6163	CTC-129-02-01	06/11/12
	ASTM D6164	CTC-132-02-01	06/11/12
	ASTM D6164	CTC-162-02-01	05/09/13
	ASTM D6164	CTC-161-02-01	05/09/13
	ASTM D6162	CTC-183-02-01	10/02/13
	ASTM D6164	CTC-190-02-01	12/02/13
	ASTM D6509	CTC-116-02-01	04/04/12
	ASTM D1970	CTC-199-02-01	01/22/14



APPROVED ASSEMBLIES

- Membrane Type:** SBS/APP MODIFIED, SELF-ADHERING
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(1):** One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
FlintBoard ISO, AC Foam-II, ENRGY 3, Multi-Max FA-3, ISO 95+ GL, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	N/A	N/A

Note: Base layers of insulation shall be adhered with Insta Stik Quik Set Insulation Adhesive (*with FlintBoard ISO, AC Foam II, ENRGY 3 or H-Shield*), OMG OlyBond 500 Adhesive, OMG Olybond 500 Green, Tite-Set Roofing Adhesive and 3M Polyurethane Foam Insulation Adhesive CR-20 (*with Multi-Max FA-3, ENRGY 3 or H-Shield*), Millennium One Step Foamable Adhesive (*with Multi-Max FA-3 only*) in 0.75 inch ribbons spaced 12 inch o.c. or hot asphalt in full coverage at a rate of 20-25 lb/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: Top layers of insulation shall be adhered with Insta Stik Quik Set Insulation Adhesive, OMG OlyBond 500 Adhesive, Tite-Set Roofing Adhesive and 3M Polyurethane Foam Insulation Adhesive CR-20, Millennium One Step Foamable Adhesive in 0.75 inch ribbons spaced 12 inch o.c. or hot asphalt in full coverage at a rate of 20-25 lb/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

- Base Sheet:** One ply of Flintlastic Ultra Glass SA, self-adhered.
- Ply Sheet:** None
- Membrane:** One ply of Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic Premium GMS or Flintlastic Premium GMS CoolStar applied in hot asphalt full coverage at a rate of 20-25 lb/sq.



Or

One ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -52.5 psf (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(2): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-IV Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered with hot asphalt at a rate of 25 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of Yosemite Venting Base Sheet strip-mopped with 9-inch wide ribbons of ASTM D312, Type IV hot asphalt spaced 18-inch o.c.

**Ply Sheet:
(Optional)** One or more plies of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 25 lbs./sq. or Flintlastic Ultra Poly SMS Base Sheet torch applied.

Membrane: One ply of Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P or Flintlastic Premium FR-P CoolStar adhered to base sheet with approved mopping asphalt applied within the EVT range and at a rate of 25 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch-applied to ply sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -60 psf (See General Limitation #7)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(3): Vapor retarder self-adhered to primed concrete deck; One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

Vapor Retarder: One ply of Flintlastic SA PlyBase, self-adhered.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 0.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer applied at a rate of 0.2 gal/sq and allowed to dry prior to application of vapor retarder. All insulation shall be adhered with OMG OlyBond 500 Adhesive or OlyBond 500 Green in ¾ in. ribbons spaced 12 in 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 adhered using FlintBond Brush at 1.0 gal/sq.

**Ply Sheet:
(Optional)** One ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 adhered using FlintBond Brush at 1.0 gal/sq.

Membrane: One ply of Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered using FlintBond Brush at 1.0 gal/sq.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -75 psf (With Flintlastic Base 20) (See General Limitation #9)
-82.5 psf (With any other base sheet listed) (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(4): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 0.5” thick	N/A	N/A

Note: Concrete deck shall be unprimed. Insulation shall be adhered with OMG OlyBond 500 Adhesive or OlyBond 500 Green in ¾ in. ribbons spaced 12 in 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 may be used as a top layer placed with the polyisocyanurate side facing down.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-III, FlintBoard ISO Cold, H-Shield CG, FlintBoard _H ISO Cold Minimum 1.5” thick	N/A	N/A

Note: Insulation shall be adhered with OMG OlyBond 500 Adhesive or OlyBond 500 Green in ¾ in. wide beads spaced 12 in 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 may be used as a top layer placed with the polyisocyanurate side facing down. Maximum total insulation thickness is 12 in.

Base Sheet: One ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 adhered using FlintBond Brush at 1.0 gal/sq.

**Ply Sheet:
(Optional)** One ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 adhered using FlintBond Brush at 1.0 gal/sq.

Membrane: One ply of Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered using FlintBond Brush at 1.0 gal/sq.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -75 psf (With Flintlastic Base 20) (See General Limitation #9)
-82.5 psf (With any other base sheet listed) (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(5): Vapor retarder self-adhered to primed concrete deck; Insulation adhered with approved adhesive.

All General and System Limitations apply.

Vapor Retarder: One ply of Flintlastic SA PlyBase, self-adhered.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 0.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-III, FlintBoard ISO Cold, H-Shield CG, FlintBoard _H ISO Cold Minimum 1.5" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer applied at a rate of 0.2 gal/sq and allowed to dry prior to application of vapor retarder. All insulation shall be adhered with OMG OlyBond 500 Adhesive or OlyBond 500 Green in ¾ in. ribbons spaced 12 in 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 may be used as a top layer placed with the polyisocyanurate side facing down. Maximum total insulation thickness is 12 in.

Base Sheet: One ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 adhered using FlintBond Brush at 1.0 gal/sq.

**Ply Sheet:
(Optional)** One ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 adhered using FlintBond Brush at 1.0 gal/sq.

Membrane: One ply of Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered using FlintBond Brush at 1.0 gal/sq.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -75 psf (With Flintlastic Base 20) (See General Limitation #9)
-82.5 psf (With any other base sheet listed) (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(6): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 0.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Concrete deck shall be unprimed. All insulation shall be adhered with OMG OlyBond 500 Adhesive or OlyBond 500 Green in ¾ in. ribbons spaced 12 in 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 may be used as a top layer placed with the polyisocyanurate side facing down. Maximum total thickness is 12 in.

Base Sheet: One ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 adhered using FlintBond Brush at 1.0 gal/sq.

**Ply Sheet:
(Optional)** One ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 adhered using FlintBond Brush at 1.0 gal/sq.

Membrane: One ply of Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered using FlintBond Brush at 1.0 gal/sq.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -75 psf (With Flintlastic Base 20) (See General Limitation #9)
-105 psf (With Flintlastic Ultra Poly SMS Base Sheet and Flintlastic Poly SMS Base Sheet)
(See General Limitation #9)



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(7): Anchor sheet (optional), insulation adhered with approved asphalt.

All General and System Limitations apply.

Anchor Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the primed concrete deck with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5" thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum ½" thick	N/A	N/A
Approved Perlite Minimum ¾" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved High Density Wood Fiberboard Minimum ½" thick	N/A	N/A
Approved Perlite Minimum ¾" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of anchor sheet. All insulation shall be adhered in full mopping of approved hot 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:	One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Ply Sheet: (Optional)	One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered or one ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.
Membrane:	Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base/ply sheet.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-87.5 psf (for top layer minimum $\frac{15}{16}$ " thick fiberglass applied in hot asphalt.) (See General Limitations #9) -107.5 psf (for top layer minimum $\frac{3}{4}$ " thick Perlite applied in hot asphalt.) (See General Limitations #9) -227 psf (for top layer minimum $\frac{1}{2}$ " thick High Density Wood Fiberboard applied in hot asphalt.) (See General Limitations #9) -240 psf (for top layer minimum $\frac{1}{4}$ " thick DensDeck or DensDeck Prime applied in hot asphalt.) (See General Limitations #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(8): Anchor sheet (optional), insulation adhered with approved asphalt.

All General and System Limitations apply.

Anchor Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet adhered to the primed concrete deck with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq..

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum ½” thick	N/A	N/A
Approved Perlite Minimum ¾” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved High Density Wood Fiberboard Minimum ½” thick	N/A	N/A
Approved Perlite Minimum ¾” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of anchor sheet. All insulation shall be adhered in full mopping of approved hot 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:	One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Ply Sheet: (Optional)	One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered or one ply of Flintlastic Ultra Poly SMS Base Sheet torch adhered.
Membrane:	One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-87.5 psf (for top layer minimum $1\frac{5}{16}$ " thick fiberglass applied in hot asphalt.) (See General Limitations #9) -107.5 psf (for top layer minimum $\frac{3}{4}$ " thick Perlite applied in hot asphalt.) (See General Limitations #9) -227 psf (for top layer minimum $\frac{1}{2}$ " thick High Density Wood Fiberboard applied in hot asphalt.) (See General Limitations #9) -240 psf (for top layer minimum $\frac{1}{4}$ " thick DensDeck or DensDeck Prime applied in hot asphalt.) (See General Limitations #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(9): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in 3/4” – 1” wide beads of Insta-Stik Quik Set Insulation Adhesive or Millennium One Step Foamable Insulation Adhesive, 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.

Base Sheet: One or more layers of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet torch applied.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or one ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch applied.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -112.5 psf (with Insta-Stik Quik Set Insulation Adhesive) (See General Limitation # 9)
-180 psf (with Millennium One Step Foamable Insulation Adhesive) (See General Limitation # 9)



Membrane Type: SBS MODIFIED
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(10): One or more layers of insulation adhered with approved asphalt.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
FlintBoard ISO, ACFoam-II Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered to the deck with Pliodek Insulation Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Tite-Set Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in ½” to ¾” 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.

Base Sheet: One or more layers of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq.
 Or
 One ply of Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered.

Maximum Design Pressure: -117.5 psf (See General Limitation # 9)



Membrane Type: SBS/APP MODIFIED, SELF-ADHERING
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(11): One or more layers of insulation adhered with approved adhesive

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>
FlintBoard ISO, ACFoam-II, ENRGY 3, Multi-Max FA-3, ISO 95+ GL, H-Shield, FlintBoard _H ISO Minimum 1.5” 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>
FlintBoard ISO, ACFoam-II, ENRGY 3, Multi-Max FA-3, ISO 95+ GL, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	N/A	N/A

Note: Multi layers of insulation shall be adhered with Insta Stik Quik Set Insulation Adhesive, OMG OlyBond 500 Adhesive, OMG OlyBond 500 Green, Tit-Set Roofing Adhesive and 3M Polyurethane Foam Insulation Adhesive CR-20, Millennium One Step Foamable Adhesive in 0.75 inch ribbons spaced 12 inch o.c. or hot asphalt in full coverage at a rate of 20-25 lb/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of Flintlastic Ultra Glass SA, self-adhered.

Ply Sheet: None

Membrane: One ply of Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic Premium GMS or Flintlastic Premium GMS CoolStar applied in hot asphalt full coverage at a rate of 20-25 lb/sq.
 Or
 One ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -135 psf (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(12): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in 1” wide ribbons of OlyBond 500 or OlyBond 500 Green, 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.

Base Sheet: One or more layers of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or one ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch applied.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -150 psf (See General Limitation # 9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(13): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in full mopping of approved hot asphalt within the EVT range and at a rate of 25 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.

Base Sheet: One or more layers of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or one ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch applied.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -180 psf (See General Limitation # 9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(14): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in 3/4” – 1” wide beads of Insta-Stik Quik Set Insulation Adhesive or 1” wide ribbons of OlyBond 500 or OlyBond 500 Green, 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.

Base Sheet: One or more layers of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or one ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch applied.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -180 psf (See General Limitation # 9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(15): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board, DensDeck Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in ½” – ¾” wide beads of Millennium One Step Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive or in full coverage of OlyBond Adhesive Fastener applied at a rate of 1 gal/sq. 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.

Base Sheet: One or more layers of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or one ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch applied.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -180 psf (See General Limitation # 9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(16): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in 3” – 3.5” wide ribbons of Tite-Set Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20, 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.

Base Sheet: One or more layers of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or one ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch applied.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -180 psf (See General Limitation # 9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(17): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

Note: All insulations shall be adhered to the deck in 1/4" – 1/2" wide beads of Ashland Pliodeck Insulation Adhesive spaced 6" o.c or in full mopping of approved hot asphalt within the EVT range and at a rate of 25 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.

Base Sheet: One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torched-applied.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torched-applied.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or one ply of Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar, torched-applied.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

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



Membrane Type: SBS Modified
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(18): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek HD Fiberboard or Fesco Board Minimum ½” thick	N/A	N/A

Note: All insulations shall be adhered to the deck in 2-½” wide beads of Tite-Set Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 spaced 12” o.c. or in ¾” – 1” wide beads of Insta Stik Quik Set Insulation Adhesive, OMG OlyBond 500 spaced 12” o.c. or in ½” – ¾” wide beads of Millennium PG-1 Low Viscosity Insulation Adhesive spaced 12” o.c. or in ¼” – ½” wide beads of Ashland Pliodeck Insulation Adhesive spaced 6” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base Sheet or Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet (Optional): One ply of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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 Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq.

Surfacing: (Optional) Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -195 psf (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(19): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum 1/4" thick	N/A	N/A

Note: All insulations shall be adhered to the deck in 1/2" – 3/4" wide beads of Millennium PG-1 Low Viscosity Insulation Adhesive spaced 12" o.c. or in 1/4" – 1/2" wide beads of Ashland Pliodeck Insulation Adhesive spaced 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base Sheet or Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet (Optional): One ply of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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 Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq.

Surfacing: (Optional) Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -195 psf (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(20): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

Note: All insulations shall be adhered to the deck in 2-1/2" wide beads of Tite-Set Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 spaced 12" o.c. or in 3/4" – 1" wide beads of Insta Stik Quik Set Insulation Adhesive, OMG OlyBond 500 spaced 12" o.c. or in 1/2" – 3/4" wide beads of or Millennium PG-1 Low Viscosity Insulation Adhesive spaced 12" o.c. or in 1/4" – 1/2" wide beads of Ashland Pliodeck Insulation Adhesive spaced 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base Sheet or Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

Ply Sheet (Optional): One ply of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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 Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq.

Surfacing: (Optional) Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -195 psf (See General Limitation #9)



Membrane Type: SBS MODIFIED
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(21): One or more layers of insulation adhered with approved asphalt.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
FlintBoard ISO, AC Foam-II Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

Note: All insulation shall be adhered to the deck with Pliodek Insulation Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Tite-Set Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 applied in 1/2" to 3/4" ribbons spaced 6" 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.

Base Sheet: One or more layers of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq.
 Or
 One ply of Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -217.5 psf (See General Limitation # 9)



Membrane Type: SBS MODIFIED
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(22): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

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

Note: All insulation shall be adhered with hot asphalt at a rate of 25 lbs/100 ft² or Insta Stik™ Quik Set Insulation Adhesive, OMG OlyBond 500 Adhesive, OlyBond 500 Green, Millennium One Step™ Foamable Adhesive, Tite-Set® Roofing Adhesive and 3M Polyurethane Foam Insulation Adhesive CR-20 in ¾ in. ribbons spaced 12 in 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet torch adhered.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, adhered with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or one ply of Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.



**Surfacing:
(Optional)**

Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:**

-232.5 psf (See General Limitation #9)



Membrane Type: SBS MODIFIED
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type A(23): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL Minimum 2” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered with hot asphalt at a rate of 25 lbs/100 ft² or Insta Stik™ Quik Set Insulation Adhesive or Millennium One Step™ Foamable Adhesive in ¾ in. ribbons spaced 12 in 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet torch adhered.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, adhered with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs/sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or one ply of Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.



**Surfacing:
(Optional)**

Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:**

-232.5 psf (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(24): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in full mopping of approved hot 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: One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet torch applied.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet torch applied.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or one ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch adhered to the base sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -240 psf (See General Limitations #9)



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(25): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
FlintBoard ISO, AC Foam-II, H-Shield, FlintBoard _H ISO Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

Note: All insulation shall be adhered with Millennium One Step Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Insta-Stik Quik Set Insulation Adhesive, OlyBond 500 or OlyBond 500 Green in 3/4" – 1" wide beads spaced 12 inch o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.
**Ply Sheet:
(Optional)** One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.
Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar, torch adhered.
Surfacing: Any of the approved surfacing/coating options listed in Table 4.
**Maximum Design
Pressure:** -252.5 psf (See General Limitation #9.)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(26): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck (<i>Only with Millennium PG-1 Low Viscosity Insulation Adhesive</i>) Minimum 1/4” thick	N/A	N/A
DensDeck Prime Minimum 1/4” thick	N/A	N/A

Note: All insulations shall be adhered to the deck in 3/4” – 1” wide beads of Insta Stik Quik Set Insulation Adhesive spaced 12” o.c. or in 1/2” – 3/4” wide beads or Millennium PG-1 Low Viscosity Insulation Adhesive 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet (Optional): One ply of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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 Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq.



**Surfacing:
(Optional)**

Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:**

-270 psf with DensDeck (See General Limitation #9)

-297.5 psf (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(27): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/4” thick	N/A	N/A

Note: All insulations shall be adhered to the deck in 3/4” – 1” wide beads of Insta Stik Quik Set Insulation Adhesive or OMG OlyBond 500 spaced 12” o.c. or in 1/2” – 3/4” wide beads or Millennium PG-1 Low Viscosity Insulation Adhesive 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

Ply Sheet (Optional): One ply of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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 Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq.



**Surfacing:
(Optional)**

Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:**

-297.5 psf (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(28): One or more layers of insulation adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: Insulation shall be adhered to the deck in ¾” – 1” wide beads of Insta Stik Quik Set Insulation Adhesive 12” o.c. or in ½” – ¾” wide beads of Millennium PG-1 Low Viscosity Insulation Adhesive 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet torched-applied.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet torched-applied.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or one ply of Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar, torched-applied.



**Surfacing:
(Optional)**

Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:**

-302.5 psf (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(29): Base sheet and insulation adhered with approved asphalt..

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the anchor sheet in full mopping of approved hot 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: One ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered.

Ply Sheet: None

Membrane: One ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered.
 Or
 One ply of Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS or Flintlastic Premium GMS CoolStar applied in hot asphalt.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -375 psf (See General Limitations #9)



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(30): Base sheet and insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ENRGY 3, H-Shield, FlintBoard_H ISO Minimum 1.5" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered in full mopping of approved hot 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. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the composite insulation with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Ply Sheet:
(Optional)** One ply of Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base/ply sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -355 psf (See General Limitations # 9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(31): Base sheet and insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ENRGY 3, H-Shield, FlintBoard_H ISO Minimum 1.5" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered in full mopping of approved hot 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. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the composite insulation with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Flintlastic Ultra Poly SMS Base Sheet torch applied or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -355 psf (See General Limitations # 9)



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(32): Base sheet and insulation adhered with approved asphalt.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, H-Shield, FlintBoard _H ISO or FlintBoard ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
FescoBoard Minimum 0.75” thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered in full mopping of approved hot 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: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base/ply sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -412 psf. (See General Limitation #9.)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(33): Base sheet and insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, H-Shield, FlintBoard _H ISO or FlintBoard ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
FescoBoard Minimum 0.75” thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered in full mopping of approved hot 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: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Flintlastic Ultra Poly SMS Base Sheet torch applied or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.



**Surfacing:
(Optional)**

Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:**

-412 psf. (See General Limitation #9)



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(34): Base sheet and insulation adhered with approved asphalt.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, H-Shield, FlintBoard _H ISO or FlintBoard ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DuraBoard Minimum 0.5” thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered in full mopping of approved hot 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: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base/ply sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -430 psf. (See General Limitation #9.)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(35): Base sheet and insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, H-Shield, FlintBoard _H ISO or FlintBoard ISO Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DuraBoard Minimum 0.5” thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered in full mopping of approved hot 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: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Flintlastic Ultra Poly SMS Base Sheet torch applied or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.



**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -430 psf. (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(36): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek HD Fiberboard or Fesco Board Minimum 0.5" thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulations shall be adhered to the deck in full mopping of approved hot asphalt within the EVT range and at a rate of 25 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: One ply of Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic Ultra Poly SMS Base Sheet* torch applied.
**only when using SECUROCK Gypsum-Fiber Roof Board.*

Ply Sheet (Optional): One ply of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic Ultra Poly SMS Base Sheet torch applied.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered.

Surfacing: (Optional) Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -437.5 psf (Fiberboard or Fesco Board) (See General Limitation #9)
-537.5 psf (See General Limitation #9)



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type B(1): Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ENRGY 3, ENRGY 3 25 PSI		
Minimum 1.4" thick	1, 6 or 10	1:2 ft ²
Minimum 2" thick	1, 6 or 10	1:3.2 ft ²
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard_H ISO		
Minimum 1.5" thick	1, 6 or 10	1:2 ft ²
Minimum 2" thick	1, 6 or 10	1:3.2 ft ²
Approved Perlite		
Minimum 3/4" thick	1, 6 or 10	1:2 ft ²
Approved High Density Wood Fiberboard		
Minimum 1/2" thick	1, 6 or 10	1:2 ft ²
DensDeck, DensDeck Prime		
Minimum 1/2" thick	1, 6 or 10	1:2 ft ²

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 Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
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Any of the insulations listed for Base Layer, above.

Note: Optional top layer of insulation shall be adhered with approved hot 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. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.



- Base Sheet:** One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the composite insulation with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.
- Membrane:** Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base/ply sheet.
- Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.
- Maximum Design
Pressure:** -52.5 psf (See General Limitations # 9)



Membrane Type:	SBS Modified
Deck Type 3I:	Concrete, Insulated
Deck Description:	Min. 2,500 psi structural concrete or concrete plank.
System Type B(2):	Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ENRGY 3, ENRGY 3 25 PSI		
Minimum 1.4” thick	1, 6 or 10	1:2 ft²
Minimum 2” thick	1, 6 or 10	1:3.2 ft²
ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard_H ISO		
Minimum 1.5” thick	1, 6 or 10	1:2 ft²
Minimum 2” thick	1, 6 or 10	1:3.2 ft²
Approved Perlite		
Minimum ¾” thick	1, 6 or 10	1:2 ft²
Approved High Density Wood Fiberboard		
Minimum ½” thick	1, 6 or 10	1:2 ft²
DensDeck, DensDeck Prime		
Minimum ½” thick	1, 6 or 10	1:2 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 Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
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Any of the insulations listed for Base Layer, above.

Note: Optional top layer of insulation shall be adhered with approved hot 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. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



Ply Sheet: (Optional)	One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Flintlastic Ultra Poly SMS Base Sheet torch applied or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered.
Membrane:	One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-52.5 psf (See General Limitations #9)



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type B(3): Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, Multi-Max FA-3, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	1, 6 or 10	1:1.33

Note: Base layer shall be mechanically attached with fasteners and density described. 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 Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
FescoBoard Minimum 3/4” thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum 1/2” thick	N/A	N/A

Note: Top layer of insulation shall be adhered with 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. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the composite insulation with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.



Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base/ply sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -52.5 psf (For FescoBoard) (See General Limitation #7)
-67.5 psf (For High Density Wood Fiberboard) (See General Limitation #7)



Membrane Type: SBS Modified
Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2,500 psi structural concrete or concrete plank.
System Type B(4): Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.

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, ENRGY 3, Multi-Max FA-3, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	1, 6 or 10	1:1.33

Note: Base layer shall be mechanically attached with fasteners and density described. 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 Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
FescoBoard Minimum 3/4” thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum 1/2” thick	N/A	N/A

Note: Top layer of insulation shall be adhered with 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. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Flintlastic Ultra Poly SMS Base Sheet torch applied or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered.



Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -52.5 psf (For FescoBoard) (See General Limitation #7)
-67.5 psf (For High Density Wood Fiberboard) (See General Limitation #7)



Membrane Type: SBS/APP MODIFIED, SELF-ADHERING
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type B(5): Base layer of insulation mechanically fastened, optional thermal barrier loose laid.

All General and System Limitations apply.

Thermal Barrier: (Optional) Minimum ¼” thick Dens Deck, SECUROCK Gypsum-Fiber Roof Board loose laid on deck.

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>
FlintBoard ISO, AC Foam-II, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	5 with 6; 7 with 8	1:1.45 ft ²

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 Roofing Application Standard RAS 117 for fastening details).

Base Sheet: One ply of Flintlastic Ultra Glass SA, self-adhered.

Ply Sheet: None

Membrane: One ply of Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic Premium GMS or Flintlastic Premium GMS CoolStar applied in hot asphalt full coverage at a rate of 20-25 lb/sq.
 Or
 One ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base sheet.

Surfacing: (Optional) Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -75 psf (See General Limitation #9.)



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(1): All layers of insulation simultaneously fastened.

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 (Table 3)</u>	<u>Fastener Density/ft²</u>
ENRGY 3, ENRGY 3 25 PSI, ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5" thick	N/A	N/A
Approved Perlite Minimum 3/4" thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum 1/2" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 1/4" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved Perlite Minimum 3/4" thick	1, 6, 10 or 13	1:2 ft ²
Approved High Density Wood Fiberboard Minimum 1/2" thick	1, 6, 10 or 13	1:2 ft ²
DensDeck, DensDeck Prime Minimum 1/2" thick	1, 6, 10 or 13	1:2 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: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the composite insulation with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



Ply Sheet: (Optional)	One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.
Membrane:	Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base/ply sheet.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-52.5 psf (See General Limitations #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(2): All layers of insulation simultaneously fastened.

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 (Table 3)</u>	<u>Fastener Density/ft²</u>
ENRGY 3, ENRGY 3 25 PSI, ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	N/A	N/A
Approved Perlite Minimum ¾” thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum ½” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved Perlite Minimum ¾” thick	1, 6, 10 or 13	1:2 ft ²
Approved High Density Wood Fiberboard Minimum ½” thick	1, 6, 10 or 13	1:2 ft ²
DensDeck, DensDeck Prime Minimum ½” thick	1, 6, 10 or 13	1:2 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: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



Ply Sheet: (Optional)	One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Flintlastic Ultra Poly SMS Base Sheet torch applied or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered.
Membrane:	One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-52.5 psf (See General Limitations #9)



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(3): All layers of insulation simultaneously fastened.

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>
ENRGY 3, ENRGY 3 25 PSI, ACfoam-II, Multi-Max FA-3, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	1, 6 or 10	1:1.33 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Black Diamond Base Sheet self-adhered.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered or one ply of Flintlastic Ultra Poly SMS Base Sheet or Flintlastic STA torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base/ply sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -82.5 psf (See General Limitations #7)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(4): All layers of insulation simultaneously fastened.

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>
ENRGY 3, ENRGY 3 25 PSI, ACfoam-II, Multi-Max FA-3, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5" thick	1, 6 or 10	1:1.33 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Black Diamond Base Sheet self-adhered.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.

Surfacing: (Optional) Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -52.5 psf (See General Limitations #7)



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type D(1): All layers of insulation and base sheet simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved Perlite Minimum 3/4" thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum 1/2" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 1/4" thick	N/A	N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet, 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. All layers of insulation and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density.

Base Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet Base Sheet or Yosemite Venting Base Sheet mechanically attached as detailed in Fastening #1 below or one ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet Base Sheet mechanically attached as detailed in Fastening #2 below.

Fastening #1: OMG #14 Roofgrip and OMG 3 in. Round Metal Plates, Dekfast #14 and Dekfast Galvalume Steel Hex Plates, Trufast #14 HD Fastener and Trufast 3" Metal Insulation Plates or FlintFast #14 screws and FlintFast 3" plates at a 4" side lap 6" o.c. and two rows staggered in the center of the sheet, 6" o.c.
(Maximum Design Pressure -67.5 psf; See General Limitation #7)

Fastening #2: OMG #14 Roofgrip and OMG 3 in. Round Metal Plates, Dekfast #14 and Dekfast Galvalume Steel Hex Plates, Trufast #14 HD Fastener and Trufast 3" Metal Insulation Plates or FlintFast#14 screws and FlintFast 3" plates at a 4" side lap 12" o.c. and two rows staggered in the center of the sheet, 12" o.c.
(Maximum Design Pressure -120 psf; See General Limitation #7)



Ply Sheet: (Optional)	One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.
Membrane:	Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base/ply sheet.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	See Fastening Options Above



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type D(2): All layers of insulation and base sheet simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Approved Perlite Minimum 3/4" thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum 1/2" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 1/4" thick	N/A	N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet, 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. All layers of insulation and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density.

Base Sheet: One ply of All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet Base Sheet or Yosemite Venting Base Sheet mechanically attached as detailed in Fastening #1 below or one ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet Base Sheet mechanically attached as detailed in Fastening #2 below.

Fastening #1: OMG #14 Roofgrip and OMG 3 in. Round Metal Plates, Dekfast #14 and Dekfast Galvalume Steel Hex Plates, Trufast #14 HD Fastener and Trufast 3" Metal Insulation Plates or FlintFast #14 screws and FlintFast 3" plates at a 4" side lap 6" o.c. and two rows staggered in the center of the sheet, 6" o.c.
(Maximum Design Pressure -67.5 psf; See General Limitation #7)

Fastening #2: OMG #14 Roofgrip and OMG 3 in. Round Metal Plates, Dekfast #14 and Dekfast Galvalume Steel Hex Plates, Trufast #14 HD Fastener and Trufast 3" Metal Insulation Plates or FlintFast#14 screws and FlintFast 3" plates at a 4" side lap 12" o.c. and two rows staggered in the center of the sheet, 12" o.c.
(Maximum Design Pressure -120 psf; See General Limitation #7)



**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or Flintlastic Ultra Poly SMS Base Sheet torch applied or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** See Fastening Options Above



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type D(3): All layers of insulation and base sheet simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintBoard ISO, H-Shield, FlintBoard _H ISO Minimum 1.5” thick	N/A	N/A

Note: Insulation layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, 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. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One ply of Flintlastic Ultra Poly SMS Base Sheet Base Sheet mechanically attached as detailed in below:

Fastening: Trufast #15 EHD Fastener and Trufast 2.4” Barbed Metal Seam Plates space 12” o.c. in a 4” side lap. The lap is heat welded closed encapsulating the fastener row.

Ply Sheet: None.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -60 psf (See General Limitation #7)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type D(4): All layers of insulation and base sheet simultaneously attached.

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 (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, FlintBoard ISO, H-Shield, Multi-Max FA-3, FlintBoard _H ISO Minimum 1.0” thick	N/A	N/A
Expanded Polystyrene (min 1.25 pcf) Minimum 1” thick	N/A	N/A
Approved Perlite Minimum ¾” thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum ½” thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ENRGY 3, FlintBoard ISO, H-Shield, Multi-Max FA-3, ,FlintBoard _H ISO Minimum 1.0” thick	N/A	N/A
Approved Expanded Polystyrene (min 1.25 pcf) Minimum 1” thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum ½” thick	N/A	N/A
Approved Perlite Minimum ¾” thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor 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/anchor sheet below for fasteners and density.



Base Sheet: One ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet, mechanically attached as detailed below:

Fastening: OMG #14 Roofgrip and OMG 3 in. Round Metal Plates, Dekfast #14 and Dekfast Galvalume Steel Hex Plates, Trufast #14 HD Fastener and Trufast 3” Metal Insulation Plates or FlintFast #14 screws and FlintFast 3” plates at 12” o.c. in the 4” wide lap and 12” o.c. in two equally spaced staggered rows in the field.

**Ply Sheet:
(Optional)** Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

Membrane: Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch applied.

**Maximum Design
Pressure:** -112.5psf (See General Limitation #7)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type F(1): Base sheet adhered to deck.

All General and System Limitations apply.

Note: Concrete deck shall be primed with FlintPrime SA primer applied at a rate of 0.20-0.25 gal/sq or ASTM D 41 asphalt primer applied at a rate of 1 gal/sq and allowed to dry prior to application of base sheet.

Base Sheet: One ply of Flintlastic Ultra Glass SA, self-adhered.

Ply Sheet: None

Membrane: Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic Premium GMS or Flintlastic Premium GMS CoolStar applied in hot asphalt full coverage at a rate of 20-25 lb/sq.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -52.5 psf (with FlintPrime SA primer) (See General Limitations #9)
-135 psf (with D 41 primer) (See General Limitations #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type F(2): Base sheet adhered to deck.

All General and System Limitations apply.

Note: Concrete deck shall be primed with FlintPrime SA primer applied at a rate of 0.20-0.25 gal/sq or ASTM D 41 asphalt primer applied at a rate of 1 gal/sq and allowed to dry prior to application of base sheet.

Base Sheet: One ply of Flintlastic Ultra Glass SA, self-adhered.

Ply Sheet: None

Membrane: One ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure -52.5 psf (with FlintPrime SA primer) (See General Limitations #9)
-322.5 psf (with D 41 primer) (See General Limitations #9)



Membrane Type: SBS/APP MODIFIED, SELF-ADHERING
Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F(3): Base sheet adhered to deck.

All General and System Limitations apply.

Primer: Concrete deck primed with ASTM D41 asphalt primer and allowed to dry prior to application of base sheet.

Base Sheet: One layer of Black Diamond Base Sheet, self-adhered.

Ply Sheet: None

Membrane: One layer of Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS or Flintlastic Premium GMS CoolStar applied in hot asphalt.

Or

One layer of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch applied.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -150 psf (See General Limitation #9.)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F(4): Base sheet heat welded to substrate.

All General and System Limitations apply.

Base Sheet: One ply of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch adhered to deck.

Membrane: Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch adhered to base sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -225 psf (See General Limitation #9)



Membrane Type: APP Modified
Deck Type 3I: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F(5): Base sheet adhered with approved asphalt.

All General and System Limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base/ply sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -240 psf (See General Limitation #9)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F(6): Base sheet adhered with approved asphalt.

All General and System Limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base self-adhered to the substrate.

**Ply Sheet:
(Optional)** One ply of All Weather/Empire Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI 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./sq. or one ply of Flintlastic Ultra Poly SMS Base Sheet torch applied or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to ply sheet.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -240 psf (See General Limitation #9)



Membrane Type: APP Modified
Deck Type 3: Concrete Decks, Non-insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F(7): Base sheet heat welded to primed substrate

All General and System Limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet.

Base Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

**Ply Sheet:
(Optional)** One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar, torch adhered.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -420 psf (See General Limitation #9.)



Membrane Type: SBS Modified
Deck Type 3I: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F(8): Base sheet heat welded to primed substrate.

All General and System Limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet.

Base Sheet: One or more layers of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

**Ply Sheet:
(Optional)** Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

Membrane: Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch applied.

**Surfacing:
(Optional)** Any of the approved surfacing/coating options listed in Table 4.

**Maximum Design
Pressure:** -542.5 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.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE