



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

Amrize Building Envelope LLC (Elevate)
26 Century Boulevard, Suite 205
Nashville, TN 37214

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: Elevate Modified Bitumen Roof Systems over Recover Decks.

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

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

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

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

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

This NOA renews and revises NOA No. 23-0613.23 and consists of pages 1 through 42.

The submitted documentation was reviewed by Jorge L. Acebo.

04/30/26



NOA No.: 26-0210.05
Expiration Date: 03/08/31
Approval Date: 04/30/26
Page 1 of 42

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Material:	APP/SBS
Deck Type:	Recover
Maximum Design Pressure:	See Specific Deck assemblies

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>
APP 80 Glass Base	39.4" x 65'4"	ASTM D6509	Fiberglass reinforced modified bitumen, smooth surfaced base sheet.
APP Premium Base	39.4" x 65'4"	ASTM D6509	Fiberglass reinforced APP modified bitumen, smooth surfaced base sheet.
SBS Glass Torch Base	39.4" x 33'10"	ASTM D6163	Modified bitumen base sheet with a burn-off film and reinforced with non-woven fiberglass mat.
SBS Glass Torch Base 1.5	39.4" x 65'3"	ASTM D6163	Fiberglass reinforced, SBS modified bitumen ply with sanded top surface and burn off film.
SBS Base	39.4" x 50'	ASTM D6163	Fiberglass reinforced SBS base sheet. Applied in hot asphalt or mechanically attached.
SBS Premium Base	39.6" x 50'	ASTM D6163	Fiberglass reinforced SBS base sheet. Applied in hot asphalt or Multi-Purpose MB Cold Adhesive.
SBS Poly Base	39.6" x 50'	ASTM D6164	A smooth surfaced, non-woven polyester reinforced, modified bitumen base sheet.
SBS Premium Poly Base	39.4" x 50"	ASTM D6164	Polyester reinforced, SBS modified bitumen membrane with sanded surfaces.
SBS Poly Torch Base	45" x 39"	ASTM D6164	Fiberglass reinforced modified bitumen membrane, SBS rubber modified asphalt reinforced with a non-woven polyester mat.
Ply IV	33" x 180"	ASTM D2178	Fiberglass reinforced, asphalt impregnated, roofing ply. Applied in hot asphalt.
Ply VI	33" x 180"	ASTM D2178	Fiberglass reinforced, asphalt impregnated, roofing ply. Applied in hot asphalt.
MB Base	36" x 108'	ASTM D4601	Fiberglass reinforced base sheet, asphalt coated on both sides. Applied in hot asphalt or mechanically attached.
SBS Smooth	39.4" x 33'10"	ASTM D6164	Smooth surfaced, modified bitumen membrane reinforced with non-woven polyester mat. Applied in hot asphalt.
APP 160	39" x 32'10"	ASTM D6222	Polyester reinforced APP modified bitumen, smooth surfaced membrane with burn-off film.
APP 160 Cool	39" x 32'10"	ASTM D6222	Polyester reinforced APP modified bitumen, smooth surfaced membrane.
APP 170	39.4" x 32'10"	ASTM D6222	Polyester reinforced APP modified bitumen, smooth surfaced membrane.
APP 170 Cool	39.6" x 33'6"	ASTM D6222	Polyester reinforced modified bitumen, smooth surfaced membrane.



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>
APP 180	39.4" x 32'10"	ASTM D6222	Polyester reinforced modified bitumen, granule surfaced membrane. Torch applied.
APP 180 UltraWhite	39.4" x 32'10"	ASTM D6222	Polyester reinforced modified bitumen, UltraWhite granule surfaced membrane. Torch applied.
APP 180 FR	39.4" x 32'10"	ASTM D6222	Polyester reinforced, fire-retardant modified bitumen, granule surfaced membrane. Torch applied.
APP 180 FR UltraWhite	39.4" x 32'10"	ASTM D6222	Polyester reinforced, fire-retardant modified bitumen, UltraWhite granule surfaced membrane. Torch applied.
APP 180 Cool	39.4" x 32'10"	ASTM D6222	Polyester reinforced modified bitumen, granule surfaced membrane.
APP 180 FR Cool	39.4" x 32'10"	ASTM D6222	Polyester reinforced, fire-retardant modified bitumen, granule surfaced membrane. Torch applied.
SBS Glass	39.4" x 33'10"	ASTM D6163	Fiberglass reinforced, granule surfaced, modified bitumen membrane. Applied in hot asphalt.
SBS Glass FR	39.4" x 33'10"	ASTM D6163	Fiberglass reinforced, fire rated, granule surfaced, modified bitumen membrane. Applied in hot asphalt.
SBS Glass FR UltraWhite	39.4" x 33'10"	ASTM D6163	UltraWhite fiberglass reinforced, granule surfaced, modified bitumen membrane. Applied in hot asphalt.
SBS Torch	48" x 39"	ASTM D6164	Granule surfaced, SBS cap reinforced with a non-woven polyester mat, with burn off film and fiberglass enhanced.
SBS Torch UltraWhite	48" x 39"	ASTM D6164	UltraWhite granule surfaced, SBS cap reinforced with a non-woven polyester mat, with burn off film and fiberglass enhanced.
SBS FR Torch	48" x 39"	ASTM D6164	Granule surfaced, fire rated, SBS cap reinforced with a non-woven polyester mat, with burn off film and fiberglass enhanced.
SBS FR Torch UltraWhite	48" x 39"	ASTM D6164	UltraWhite granule surfaced, fire rated, SBS cap reinforced with a non-woven polyester mat, with burn off film and fiberglass enhanced.
SBS Glass FR Torch	39.4" x 33'10"	ASTM D6163	Fiberglass reinforced, fire rated, granule surfaced, modified bitumen membrane. with burn off film and fiberglass enhanced.
SBS Glass FR Torch UltraWhite	39.4" x 33'10"	ASTM D6163	UltraWhite fiberglass reinforced, fire rated, granule surfaced, modified bitumen membrane. with burn off film and fiberglass enhanced.
SBS Cap	39.4" x 33'10"	ASTM D6164	Granule surfaced, modified bitumen membrane reinforced with non-woven polyester mat.
SBS Cap UltraWhite	39.4" x 33'10"	ASTM D6164	UltraWhite granule surfaced, modified bitumen membrane reinforced with non-woven polyester mat.



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>
SBS FR Cap	39.4" x 33'10"	ASTM D6164	Granule surfaced, modified bitumen membrane reinforced with non-woven polyester mat.
SBS FR Cap UltraWhite	39.4" x 33'10"	ASTM D6164	UltraWhite granule surfaced, modified bitumen membrane reinforced with non-woven polyester mat.
SBS Premium FR	39.4" x 33'10"	ASTM D6164	Granule surfaced, fire rated, modified bitumen membrane reinforced with non-woven polyester mat.
SBS Premium FR UltraWhite	39.4" x 33'10"	ASTM D6164	UltraWhite granule surfaced, fire rated, modified bitumen membrane reinforced with non-woven polyester mat.
SBS Premium	39.4" x 33'10"	ASTM D6164	Granule surfaced, modified bitumen membrane reinforced with polyester mat. Applied in hot asphalt.
SBS Premium Torch	39.4" x 33'10"	ASTM D6164	Granule surfaced, modified bitumen membrane with a burn-off film and reinforced with non-woven polyester mat.
SBS Premium Torch UltraWhite	39.4" x 33'10"	ASTM D6164	UltraWhite granule surfaced, modified bitumen membrane with a burn-off film and reinforced with non-woven polyester mat.
SBS Premium FR Torch	39.4" x 33'10"	ASTM D6164	Granule surfaced, fire rated, modified bitumen membrane with a burn-off film and reinforced with non-woven polyester mat.
SBS Premium FR Torch UltraWhite	39.4" x 33'10"	ASTM D6164	UltraWhite granule surfaced, fire rated, modified bitumen membrane with a burn-off film and reinforced with non-woven polyester mat.
I.S.O. Twin Pack Insulation Adhesive	Dual 750 ml cartridges	Proprietary	A two-component polyurethane insulation adhesive.
I.S.O. Stick	5 gal.	Proprietary	A two-component polyurethane insulation adhesive.
Multi-Purpose MB Cold Adhesive	55 gal.	Proprietary	An asphalt-based adhesive.



APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
ISO 95+ GL (Flat and Tapered)	Polyisocyanurate insulation board with glass reinforced organic facer	Amrize Building Envelope LLC
DensDeck Prime	Silicon treated gypsum	Georgia Pacific Gypsum LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum roof board with fiber reinforcement	United States Gypsum Corporation
ISOGARD HD	High density Polyisocyanurate roof board with a coated fiberglass facer	Amrize Building Envelope 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.	Elevate All-Purpose	Insulation and membrane fastener	Various	Amrize Building Envelope LLC
2.	Elevate Heavy-Duty	Insulation and membrane fastener	Various	Amrize Building Envelope LLC
3.	Concrete Drive Fastener	1/4" diameter concrete deck fastener.	Various	Amrize Building Envelope LLC
4.	MB 2" Barbed Metal Seam Plate	Metal plates used for membrane securement.	2" dia	Amrize Building Envelope LLC
5.	Elevate 2-3/8 Barbed Seam Plate	Membrane seam attachment plate.	2-3/8" dia	Amrize Building Envelope LLC
6.	2" Metal Plate	Membrane attachment plate.	2" dia	Amrize Building Envelope LLC
7.	Elevate Polymer	Glass reinforced nylon fastener for Gypsum or CWF decks	11/16" dia	Amrize Building Envelope LLC
8.	Elevate Polymer Fastener Insulation Plate	Galvalume plate for use with the Polymer Fastener	3" square	Amrize Building Envelope LLC
9.	Insulation Fastening Plate	Insulation plate for use with Elevate Fasteners	3" round	Amrize Building Envelope LLC
10.	Elevate Coiled Metal Batten Strip	Galvalume AZ55 Batten Bar	220' x 1"	Amrize Building Envelope LLC



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
FM Approvals	3022502	FM 4470	01/29/07
	3007328	FM 4470	07/12/02
	3030107	FM 4470	05/18/07
	3040795	FM 4470	03/24/11
	3040109	FM 4470	03/09/11
	3041534	FM 4470	03/09/11
	3035560	FM 4470	01/11/10
	3038191	FM 4470	08/04/11
	3040306	FM 4470	09/07/11
	3042392	FM 4470	06/08/11
	3046870	FM 4470	03/22/13
	3047398	FM 4470	08/15/13
	3061218	FM 4470	05/10/17
	UL LLC	R9516	UL 790
Trinity ERD	F10370.05.08	ASTM C 1289	05/08/08
PRI Construction Materials Technologies LLC	FBP-109-02-01	TAS 114(J)	04/19/13
	FBP-113-02-01	TAS 114(J)	04/17/13
	FBP-118-02-01 Rev.1	TAS 114(J)	01/02/14
	FBP-123-02-01	TAS 114(J)	07/26/13
	FBP-124-02-01	TAS 114(J)	08/02/13
	FBP-133-02-01 Rev.3	TAS 114(J)	02/10/14
	FBP-133-02-02 Rev.1	TAS 114(J)	01/02/14
	PRI Construction Materials Technologies LLC	FBP-141-02-01	TAS 114(J)
FBP-142-02-01.1		TAS 114(J)	01/02/14
FBP-142-02-02 Rev.1		TAS 114(J)	10/01/13
FBP-059-02-01.6		Various	03/15/18
FBP-184-02-03		TAS 114(J)	07/31/14
FBP-181-02-01B.1		TAS 114(J)	07/24/14
FBP-196-02-03		TAS 114 (J)	10/10/14
FBP-193-02-01		TAS 114(J)	10/10/14

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies:</u>	<u>Date</u>
Zachary Priest, P.E.	Letter	B(1), B(2), C(3), C(4), C(5), C(6), C(7), C(8), C(9), C(10), C(11), C(12), C(13), C(14), D(2), D(3)	02/08/16



APPROVED ASSEMBLIES

- Membrane Type:** SBS
- Deck Type 7I:** Recover, Insulated
- Deck Description:** Minimum 22 gauge, Grade 33 steel deck secured to structural supports spaced maximum 6 ft. o.c. or concrete deck. Steel deck is fastened to supports at every flute with #12 x 1-1/4" HWH screws. Laps stitched 24" o.c. with #1/4x7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 168 lbf. when tested with Elevate All-Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.
- This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**
- System Type B(1):** Base layer of insulation mechanically fastened, top layer 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>
ISO 95+ GL Minimum 1.5" thick	1 (steel) with 9 2 or 3 (concrete) with 9	1:1.6 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</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/2" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with I.S.O. Twin Pack Insulation Adhesive applied in 1/2" to 3/4" wide ribbons spaced 6" o.c. (not with SECUROCK) or with I.S.O. Stick applied in 3/4" to 1" wide ribbons spaced 6" o.c. 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 or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
- Or
- One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.



Membrane:

One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, or SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-25 lbs./sq. with minimum 3” wide side laps.

Or

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3” wide side laps.

**Surfacing
(Optional):**

***Required over APP 180 Cool, APP 180 FR Cool, SBS Smooth.**

Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

**Maximum Design
Pressure:**

-52.5 psf. (See General Limitation #7.)



Membrane Type: SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 gauge, Grade 33 steel deck secured to structural supports spaced maximum 6 ft. o.c. or concrete deck. Steel deck is fastened to supports at every flute with 5/8" puddle welds. Laps stitched 24" o.c. with #1/4x7/8" HWH self-drilling screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 216 lbf. when tested with Elevate All-Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type B(2): Base layer of insulation mechanically fastened, top layer 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>
ISO 95+ GL Minimum 2" thick	1 (steel) with 9 2 or 3 (concrete) with 9	1:1.6 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>Middle Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL Minimum 1/2" 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 1/2" thick	N/A	N/A

Note: Middle and Top insulation layers shall be adhered with I.S.O. Stick applied in 3/4" to 1" wide ribbons spaced 6" o.c. 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 or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.

Or

One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.



Membrane: One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, or SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-25 lbs./sq. with minimum 3” wide side laps.

Or

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3” wide side laps.

**Surfacing
(Optional):**

***Required over APP 180 Cool, APP 180 FR Cool, SBS Smooth.**

Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

**Maximum Design
Pressure:**

-67.5 psf. (See General Limitation #7.)



Membrane Type: APP/SBS
Deck Type 7I: Recover, Insulated
Deck Description: Concrete
System Type C(1): Insulation mechanically fastened, membranes 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>
ISO 95+ GL Minimum 2" thick	2 or 3 with 9	1:1.33 ft ²

Note: 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 or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.

Or

Membrane: One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, or SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-25 lbs./sq. with minimum 3" wide side laps.

Or

(Only over SBS Base, SBS Poly Base, or SBS Premium Base) One ply of SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3" wide side laps.

Or

(only over SBS Base, SBS Poly Base, or SBS Premium Base) One ply of Elevate APP 170 Cool, APP 180 Cool or APP 180 FR Cool fully adhered to the base sheet with Elevate Multi-Purpose MB Cold Adhesive applied at 1.5 - 2 gal./sq. with minimum 3" wide side laps.

Or

(only over SBS Base, SBS Poly Base, or SBS Premium Base) One ply of Elevate APP 160, APP 170, APP 180, APP 180 UltraWhite, APP 180 FR, APP 180 FR UltraWhite torch adhered with minimum 3" wide side laps.

Surfacing (Optional): ***Required over SBS Smooth, APP 160, APP 170, APP 180 FR Cool, or APP 180 Cool.** Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

1. Gravel or slag at 400 lb. and 300 lb., respectively, set in a flood coat of type III or IV asphalt at 60 lb./sq.
2. Karnak No. 97, No. 97 AF or No. 169 at an application rate of 1.5-3 gal./sq.

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



Membrane Type: SBS
Deck Type 7I: Recover, Insulated
Deck Description: Concrete
System Type C(2): All layers of insulation 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>
ISO 95+ GL 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 ½" thick	2 or 3 with 9	1:1.45 ft ²

Note: 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 or more plies of SBS Base, SBS Premium Base, SBS Poly Base (Cold Adhesive only), fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
 Or
 One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, torch adhered with minimum 3" wide side laps.

Ply Sheet (Optional): **(over SBS Base, SBS Poly Base, or SBS Premium Base only)** One or more plies of SBS Smooth (hot asphalt only), SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base (hot asphalt only), Ply IV (hot asphalt only), Ply VI (hot asphalt only), fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
 Or
(over SBS Glass Torch Base, or SBS Poly Torch Base only) One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.



Membrane:

One ply of SBS Smooth, SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive (**only over SBS Base, SBS Poly Base, SBS Smooth, or Premium Base**) applied at a rate of 1.5-2.0 gal./sq. or hot asphalt (**over SBS Base, SBS Poly Base, SBS Premium Base, SBS Premium Poly Base, Ply IV, Ply VI, or SBS Smooth**) applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3” wide side laps.

Or

(**over SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Premium Poly Base, or SBS Poly Torch Base only**) One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3” wide side laps.

Surfacing (Optional): *Required over APP 160 Cool, APP 170 Cool, APP 180 Cool, APP 180 FR Cool, SBS Smooth.

Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

Maximum Design

Pressure:

-90 psf. (See General Limitation #7.)



Membrane Type: SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 33 steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. or Concrete deck. Steel deck is fastened to supports at every flute with 5/8" puddle welds. Laps stitched 24" o.c. with #1/4x7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 214 lbf. when tested with Elevate All-Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(3): All layers of insulation 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>
ISO 95+ GL Minimum 1/2" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL Minimum 2" thick	1 with 9 (steel deck) 2 or 3 with 9 (concrete)	1:1.78 ft ²
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/2" thick	1 with 9 (steel deck) 2 or 3 with 9 (concrete)	1:1.78 ft ²

Note: All Insulation 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 or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only) MB Base, fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. (onlt DensDeck and SECUROCK) with minimum 3 in. wide side laps.
Or
One or more plies of SBS Glass Torch Base, SBS Poly Base Torch, SBS Glass Torch Base 1.5 torch adhered (only DensDeck and SECUROCK) with minimum 3 in. wide side laps.

Ply Sheet (Optional): One or more plies of SBS Smooth, SBS Base, SBS Premium Poly Base, SBS Poly Base, SBS Premium Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), MB Base, fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3 in. wide side laps.
Or
One or more plies of SBS Glass Torch Base, SBS Poly Base Torch, SBS Glass Torch Base 1.5 torch adhered with minimum 3 in. wide side laps.



Membrane:

One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3 in. wide side laps.

Or

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3 in. wide side laps.

Maximum Design Pressure:

-60 psf. (See General Limitation #7.)



Membrane Type: SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 33 steel deck secured to structural support at a maximum spacing of 6 ft. o.c. or Concrete deck. Steel deck is fastened to supports at every flute with #12 x 1-1/4" HWH screws. Laps stitched 24" o.c. with #1/4 x 7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 180 lbf. When tested with Elevate All-Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(4): Membrane fully adhered over mechanically fastened insulation.

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 1" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum 1/2" thick	1 with 9 (steel deck) 2 or 3 with 9 (concrete)	1:1.33 ft ²

Note: Top 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 or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.

Ply Sheet (Optional): One or more plies of SBS Smooth, SBS Base, SBS Premium Poly Base, SBS Poly Base, SBS Premium Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), or MB Base, fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
 Or
 One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.

Membrane: One ply of SBS Smooth, SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
 Or
 One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3" wide side laps.

Maximum Design Pressure: -67.5 psf. (See General Limitation #7.)



Membrane Type: SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 33 steel deck secured to structural support at a maximum spacing of 6 ft. o.c. or Concrete deck. Steel deck is fastened to supports at every flute with #12 x 1-1/4" HWH screws. Laps stitched 24" o.c. with #1/4 x 7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 267 lbf. when tested with Elevate All-Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(5): Membrane fully adhered over mechanically fastened insulation.

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 1" 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 1/2" thick	1 with 9 (steel deck) 2 or 3 with 9 (concrete)	1:1.78 ft ²

Note: Top 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 or more plies of SBS Smooth, SBS Base, , SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI, or MB Base, fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
Or
One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.

Ply Sheet (Optional): One or more plies of SBS Smooth, SBS Base, , SBS Premium Poly Base, SBS Poly Base, SBS Premium Base, Ply IV (hot asphalt only), Ply VI, or MB Base, fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
Or
One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.



Membrane:

One ply of SBS Smooth, SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3” wide side laps.

Or

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3” wide side laps.

Surfacing (Optional):

***Required over SBS Smooth.**

Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

Maximum Design Pressure:

-75 psf. (See General Limitation #7.)



Membrane Type: SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 33 steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. or Concrete deck. Steel deck is fastened to supports at every flute with #12 x 1-1/4" HWH screws. Laps stitched 24" o.c. with #1/4 x 7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 140 lbf. when tested with Elevate All-Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(6): Membrane fully adhered over mechanically fastened insulation.

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 1" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISOGARD HD Minimum 1/2" thick	1 with 9 (steel deck) 2 or 3 with 9 (concrete)	1:1.33 ft ²

Note: All Insulation 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 or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, MB Base, Ply IV (hot asphalt only), or Ply VI (hot asphalt only) fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.

Ply Sheet: (Optional) One or more plies of SBS Smooth, SBS Base, SBS Premium Poly Base, SBS Poly Base, SBS Premium Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), MB Base, fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3 in. wide side laps.
Or
(Optional) One or more plies of SBS Glass Torch Base, SBS Poly Base Torch, SBS Glass Torch Base 1.5 torch adhered with minimum 3 in. wide side laps.



Membrane:

One ply of SBS Smooth, SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3 in. wide side laps.

Or

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3 in. wide side laps.

Maximum Design Pressure:

-52.5 psf. (See General Limitation #7.)



Membrane Type: APP/SBS
Deck Type 7I: Recover, Insulated
Deck Description: Minimum 22 ga., Grade 40 steel deck secured to structural supports at a maximum spacing of 6 ft. o.c. or concrete deck. Steel deck is fastened to supports at every flute with 5/8" puddle welds. Laps stitched 24" o.c. with #1/4x7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 320 lbf. When tested with Elevate All Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(7): Membrane fully adhered over mechanically fastened insulation.

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>
ISO 95+ GL Minimum ½" thick	NA	NA
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime Minimum ½" thick	1 with 9 (steel) 2 or 3 with 9 (concrete)	1:1.78 ft ²
ISO 95+ GL Minimum 2" thick	1 with 9 (steel) 2 or 3 with 9 (concrete)	1:1.78 ft ²

Note: All Insulation 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 or more layers of APP Premium Base (**over ISO 95+ GL only**), APP 160 Cool, or APP 170 Cool fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.
 Or
(Only when SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime is used) One or more layers of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully adhered by torch adhering with minimum 3" wide side laps.
 Or
 One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.
 Or
(Only when SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime is used) One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.



Ply Sheet (Optional): **(Not for use with APP sheets)** One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV, Ply VI, or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3” wide side laps.
 Or
(Not for use with APP sheets) One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3” wide side laps.
 Or
(Not for use with SBS sheets) One or more plies of APP Premium Base, APP 160 Cool, APP 170 Cool fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3” wide side laps.
 Or
(Not for use with SBS sheets) One or more plies of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully torch adhered with minimum 3” wide side laps.

Membrane: **(Not for use with APP sheets)** One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, or SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-25 lbs./sq. with minimum 3” wide side laps.
 Or
(Not for use with APP sheets) One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3” wide side laps.
 Or
(Not for use over SBS sheets) One ply of Elevate APP 180 Cool or APP 180 FR Cool fully adhered to the base sheet with Elevate Multi-Purpose MB Cold Adhesive applied at 1.5 - 2 gal./sq. with minimum 3” wide side laps.
 Or
(Not for use over SBS sheets) One ply of Elevate APP 180, APP 180 UltraWhite, APP 180 Cool, APP 180 FR, APP 180 FR UltraWhite or APP 180 FR Cool torch adhered with minimum 3” wide side laps.

Surfacing (Optional): ***Required over APP 180 Cool, APP 180 FR Cool, SBS Smooth.**
 Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

Maximum Design Pressure: -90 psf. (See General Limitation #7.)



Membrane Type: APP/SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 33 steel deck secured to structural support at a maximum spacing of 6 ft. o.c. or Concrete deck. Steel deck is fastened to supports at every flute with 5/8" puddle welds. Laps stitched 24" o.c. with #1/4x7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 264 lbf. when tested with Elevate All-Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(8): Membrane fully adhered over mechanically fastened insulation.

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 1" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/2" thick	1 with 9 (steel deck) 2 or 3 with 9 (concrete)	1:1.6 ft ²

Note: All Insulation 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 or more layers of APP 160 Cool, or APP 170 Cool fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.

Or

One or more layers of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully adhered by torch adhering with minimum 3" wide side laps.

Or

One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.

Or

One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.



Ply Sheet (Optional): (Not for use with APP sheets) One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3” wide side laps.
 Or
 (Not for use with APP sheets) One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3” wide side laps.
 Or
 (Not for use with SBS sheets) One or more plies of APP Premium Base, APP 160 Cool, APP 170 Cool fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3” wide side laps.
 Or
 (Not for use with SBS sheets) One or more plies of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully torch adhered with minimum 3” wide side laps.

Membrane: (Not for use with SBS) One ply of APP 180 FR Cool, APP 180 Cool fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3” wide side laps.
 Or
 (Not for use with SBS) One ply of APP 180, APP 180 UltraWhite, APP 180 FR, APP 180 FR UltraWhite, APP 180 Cool, APP 180 FR Cool torch adhered with minimum 3” wide side laps.
 Or
 (Not for use with APP) One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-25 lbs./sq. with minimum 3” wide side laps.
 Or
 (Not for use with APP) One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3” wide side laps.

Surfacing (Optional): *Required over APP 180 Cool, APP 180 FR Cool, SBS Smooth.
 Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

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



Membrane Type: APP/SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 33 steel deck is secured to structural supports at a maximum spacing of 6 ft. o.c. or concrete deck. Steel deck is fastened to supports at every flute with 5/8" puddle welds. Laps stitched 24" o.c. with #1/4x7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 240 lbf. When tested with Elevate All Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(9): Membrane fully adhered over mechanically fastened insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer (Optional)

**ISO 95+ GL
Minimum 1/2" thick**

**Insulation Fasteners
(Table 3)**

NA

**Fastener
Density/ft²**

NA

Top Insulation Layer

**SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime
Minimum 1/2" thick**

**Insulation Fasteners
(Table 3)**

1 with 9 (steel)
2 or 3 with 9 (concrete)

**Fastener
Density/ft²**

1:2.67 ft²

**ISO 95+ GL
Minimum 2" thick**

1 with 9 (steel)
2 or 3 with 9 (concrete)

1:2.67 ft²

Note: All Insulation 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 or more layers of APP Premium Base (**over ISO 95+ GL only**), APP 160 Cool, or APP 170 Cool fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.

Or

(Only when SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime is used) One or more layers of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully adhered by torch adhering with minimum 3" wide side laps.

Or

One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.

Or

(Only when SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime is used) One or more plies of SBS Glass Torch Base, SBS Poly Base Torch, or SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.



Ply Sheet (Optional): (Not for use with APP sheets) One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3” wide side laps.
Or
(Not for use with APP sheets) One or more plies of SBS Glass Torch Base, SBS Poly Base Torch, or SBS Glass Torch Base 1.5 torch adhered with minimum 3” wide side laps.
Or
(Not for use with SBS sheets) One or more plies of APP Premium Base, APP 160 Cool, APP 170 Cool fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3” wide side laps.
Or
(Not for use with SBS sheets) One or more plies of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully torch adhered with minimum 3” wide side laps.

Membrane: (Not for use with APP sheets) One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, or SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq., or hot asphalt applied in the EVT range at a rate of 20-25 lbs./sq. with minimum 3” wide side laps.
Or
(Not for use with APP sheets) One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3” wide side laps.
Or
(Not for use over SBS sheets) One ply of Elevate APP 170 Cool, APP 180 Cool or APP 180 FR Cool fully adhered to the base sheet with Elevate Multi-Purpose MB Cold Adhesive applied at 1½ - 2 gal./sq. with minimum 3” wide side laps.
(Not for use over SBS sheets) One ply of Elevate APP 160, APP 160 Cool, APP 170, or APP 170 Cool, APP 180, APP 180 UltraWhite, APP 180 Cool, APP 180 FR, APP 180 FR UltraWhite or APP 180 FR Cool torch adhered with minimum 3” wide side laps.

Maximum Design Pressure: -45 psf. (See General Limitation #7.)



Membrane Type: APP/SBS
Deck Type 7I: Recover, Insulated
Deck Description: Minimum 22 ga., Grade 40 steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. or Concrete deck. Steel deck is fastened to supports at every flute with 5/8" puddle welds. Laps stitched 24" o.c. with #1/4x7/8" HWH screws. The existing roof shall be a minimum 1/2" thick. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 320 lbf. when tested with Elevate All-Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(10): Membrane fully adhered over mechanically fastened insulation.

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>
ISO 95+ GL Minimum 1" 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 1/2" thick	1 with 9 (steel deck) 2 or 3 with 9 (concrete)	1:1.78 ft ²

Note: All Insulation 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 or more layers of APP 160 Cool, or APP 170 Cool fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.
 Or
 One or more layers of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully adhered by torch adhering with minimum 3" wide side laps.
 Or
 One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
 Or
 One or more plies of SBS Glass Torch Base, SBS Poly Base Torch, or SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.



Ply Sheet (Optional): (Not for use with APP sheets) One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or LiquiGard Membrane Adhesive applied at a rate of 1.5-2.0 gal./sq., or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3” wide side laps.
Or
(Not for use with APP sheets) One or more plies of SBS Glass Torch Base, SBS Poly Base Torch, or SBS Glass Torch Base 1.5 torch adhered with minimum 3” wide side laps.
Or
(Not for use with SBS sheets) One or more plies of APP Premium Base, APP 160 Cool, APP 170 Cool fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3” wide side laps.
Or
(Not for use with SBS sheets) One or more plies of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully torch adhered with minimum 3” wide side laps.

Membrane: (Not for use with SBS) One ply of APP 180 FR Cool, APP 180 Cool fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3 in. wide side laps.
Or
(Not for use with SBS) One ply of APP 180, APP 180 UltraWhite, APP 180 FR, APP 180 FR UltraWhite, APP 180 Cool, APP 180 FR Cool torch adhered with minimum 3 in. wide side laps.
Or
(Not for use with APP) One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-25 lbs./sq. with minimum 3 in. wide side laps.
Or
(Not for use with APP) One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3 in. wide side laps.

Maximum Design Pressure: -90 psf. (See General Limitation #7)



Membrane Type: APP/SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 40 steel deck secured to structural supports at a maximum spacing of 6 ft. o.c. or concrete deck. Steel deck is fastened to supports at every flute with 5/8" puddle welds. Laps stitched 24" o.c. with #1/4x7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 195 lbf. When tested with Elevate All Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(11): Membrane fully adhered over mechanically fastened insulation.

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>
ISO 95+ GL Minimum 1/2" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL Minimum 2.5" thick	1 with 9 (steel) 2 or 3 with 9 (concrete)	1:1 ft ²

Note: All Insulation 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 or more layers of APP Premium Base, APP 160 Cool, or APP 170 Cool fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.
 Or
 One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.

Ply Sheet (Optional): **(Not for use with APP sheets)** One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV, Ply VI, or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
 Or
(Not for use with APP sheets) One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.
 Or
(Not for use with SBS sheets) One or more plies of APP Premium Base, APP 160 Cool, APP 170 Cool fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.
 Or
(Not for use with SBS sheets) One or more plies of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully torch adhered with minimum 3" wide side laps.



Membrane:

(Not for use with APP sheets) One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, or SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-25 lbs./sq. with minimum 3” wide side laps.

Or

(Not for use with APP sheets) One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3” wide side laps.

Or

(Not for use over SBS sheets) One ply of Elevate APP 180 Cool, APP 180 FR Cool fully adhered to the base sheet with Elevate Multi-Purpose MB Cold Adhesive applied at 1.5 - 2 gal./sq. with minimum 3” wide side laps.

Or

(Not for use over SBS sheets) One ply of Elevate APP 180, APP 180 UltraWhite, APP 180 Cool, APP 180 FR, APP 180 FR UltraWhite or APP 180 FR Cool torch adhered with minimum 3” wide side laps.

Surfacing (Optional):

***Required over APP 180 Cool, APP 180 FR Cool, SBS Smooth.**

Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

Maximum Design Pressure:

-97.5 psf. (See General Limitation #7.)



Membrane Type: APP/SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 33 steel deck secured to structural supports at a maximum spacing of 6 ft. o.c. or concrete deck. Steel deck is fastened to supports at every flute with 5/8" puddle welds. Laps stitched 24" o.c. with #1/4x7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 224 lbf. When tested with Elevate All Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(12): Membrane fully adhered over mechanically fastened insulation.

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>
ISO 95+ GL Minimum 1/2" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL Minimum 2.5" thick	1 with 9 (steel) 2 or 3 with 9 (concrete)	1:2.13 ft ²

Note: All Insulation 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 or more layers of APP Premium Base, APP 160 Cool, or APP 170 Cool fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.
 Or
 One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.

Ply Sheet (Optional): **(Not for use with APP sheets)** One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV, Ply VI, or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
 Or
(Not for use with APP sheets) One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.
 Or
(Not for use with SBS sheets) One or more plies of APP Premium Base, APP 160 Cool, APP 170 Cool fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.
 Or
(Not for use with SBS sheets) One or more plies of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully torch adhered with minimum 3" wide side laps.



Membrane:

(Not for use with APP sheets) One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, or SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-25 lbs./sq. with minimum 3” wide side laps.

Or

(Not for use with APP sheets) One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3” wide side laps.

Or

(Not for use over SBS sheets) One ply of Elevate APP 180 Cool or APP 180 FR Cool fully adhered to the base sheet with Elevate Multi-Purpose MB Cold Adhesive applied at 1.5 - 2 gal./sq. with minimum 3” wide side laps.

Or

(Not for use over SBS sheets) One ply of Elevate APP 180, APP 180 UltraWhite, APP 180 Cool, APP 180 FR, APP 180 FR UltraWhite or APP 180 FR Cool torch adhered with minimum 3” wide side laps.

Surfacing (Optional):

***Required over APP 180 Cool, APP 180 FR Cool, SBS Smooth.**

Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

Maximum Design Pressure:

-52.5 psf. (See General Limitation #7.)



Membrane Type: APP/SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 33 steel deck secured to structural supports at a maximum spacing of 6 ft. o.c. or concrete deck. Steel deck is fastened to supports at every flute with 5/8" puddle welds. Laps stitched 24" o.c. with #1/4x7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 256 lbf. When tested with Elevate All Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(13): Membrane fully adhered over mechanically fastened insulation.

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 1" 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 1/2" thick	1 or 2 with 9 (steel) 2 or 3 with 9 (concrete)	1:2.13 ft ²

Note: Insulation 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 or more layers of APP 160 Cool, or APP 170 Cool fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.

Or

One or more layers of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully adhered by torch adhering with minimum 3" wide side laps.

Or

One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV, Ply VI, or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.

Or

One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.



Ply Sheet (Optional): **(Not for use with APP sheets)** One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV, Ply VI, or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3” wide side laps.
 Or
(Not for use with APP sheets) One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3” wide side laps.
 Or
(Not for use with SBS sheets) One or more plies of APP Premium Base, APP 160 Cool, APP 170 Cool fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3” wide side laps.
 Or
(Not for use with SBS sheets) One or more plies of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully torch adhered with minimum 3” wide side laps.

Membrane: **(Not for use with APP sheets)** One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, or SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-25 lbs./sq. with minimum 3” wide side laps.
 Or
(Not for use with APP sheets) One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3” wide side laps.
 Or
(Not for use over SBS sheets) One ply of Elevate APP 180 Cool or APP 180 FR Cool fully adhered to the base sheet with Elevate Multi-Purpose MB Cold Adhesive applied at 1.5 - 2 gal./sq. with minimum 3” wide side laps.
 Or
(Not for use over SBS sheets) One ply of Elevate APP 180, APP 180 UltraWhite, APP 180 Cool, APP 180 FR, APP 180 FR UltraWhite or APP 180 FR Cool torch adhered with minimum 3” wide side laps.

Surfacing (Optional): ***Required over APP 180 Cool, APP 180 FR Cool, SBS Smooth.**
 Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

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



Membrane Type: SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 33 steel deck secured to structural supports at a maximum spacing of 6 ft. o.c. or concrete deck. Steel deck is fastened to supports at every flute with #12 x 1-1/4" HWH screws. Laps stitched 24" o.c. with #1/4x7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 240 lbf. When tested with Elevate All Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(14): Membrane fully adhered over mechanically fastened insulation.

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 1" 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	1 with 9 (steel) 2 or 3 with 9 (concrete)	1:1.78 ft ²

Note: Insulation 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 or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV, Ply VI, MB Base, fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.

Or

One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.

Or

One or more layers of APP 160 Cool, or APP 170 Cool fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3" wide side laps.

Or

One or more layers of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully adhered by torch adhering with minimum 3" wide side laps.



Ply Sheet (Optional): **(Not for use with APP sheets)** One or more plies of SBS Smooth, SBS Base, , SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3” wide side laps.
 Or
(Not for use with APP sheets) One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, or SBS Glass Torch Base 1.5 torch adhered with minimum 3” wide side laps.
 Or
(Not for use with SBS sheets) One or more plies of APP Premium Base, APP 160 Cool, APP 170 Cool fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. with minimum 3” wide side laps.
 Or
(Not for use with SBS sheets) One or more plies of APP 80 Glass Base, APP Premium Base, APP 160, APP 160 Cool, APP 170, or APP 170 Cool fully torch adhered with minimum 3” wide side laps.

Membrane: **(Not for use with APP sheets)** One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, or SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-25 lbs./sq. with minimum 3” wide side laps.
 Or
(Not for use with APP sheets) One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3” wide side laps.
 Or
(Not for use over SBS sheets) One ply of Elevate APP 180 Cool or APP 180 FR Cool fully adhered to the base sheet with Elevate Multi-Purpose MB Cold Adhesive applied at 1.5 - 2 gal./sq. with minimum 3” wide side laps.
 Or
(Not for use over SBS sheets) One ply of Elevate APP 180, APP 180 UltraWhite, APP 180 Cool, APP 180 FR, APP 180 FR UltraWhite or APP 180 FR Cool torch adhered with minimum 3” wide side laps.

Surfacing (Optional): ***Required over APP 180 Cool, APP 180 FR Cool, SBS Smooth.**
 Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

Maximum Design Pressure: -67.5 psf. (See General Limitation #7.)



Membrane Type: SBS
Deck Type 7I: Recover, Insulated
Deck Description: Concrete
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>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL Minimum 1.5" thick	N/A	N/A

Note: Top layer of insulation 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 Roofing Application Standard RAS 117 for fastening details. See base/anchor sheet below for fasteners and density.

Base Sheet: One ply of Elevate SBS Poly Torch Base Sheet with a 4" side lap mechanically fastened through the insulation to the deck with Elevate Heavy-Duty fasteners or Concrete Drive Fastener and Insulation Fastening Plates at a spacing of 12" o.c. within the 4" side lap and two staggered rows, equally spaced in the center of the sheet, 12" o.c.

Ply Sheet: One ply of Elevate SBS Poly Torch Base, SBS Glass Torch Base, SBS Glass Torch Base 1.5 or SBS Premium Poly Base, torch applied to the base sheet with the 3" side laps are heat fused with a torch.

Membrane: **(over SBS Glass Torch Base, SBS Glass Torch Base 1.5, SBS Premium Poly Base, or SBS Poly Torch Base only)** One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3" wide side laps.

Surfacing (Optional): Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

1. Roof gravel at 400 lb./sq. in a flood coat of approved asphalt.
2. Roof gravel in Multi-Purpose MB Cold Adhesive at 2.5 gal./sq.

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



Membrane Type: SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 33 steel deck secured to structural support at a maximum spacing of 6 ft. o.c. or Concrete deck. Steel deck is fastened to supports at every flute with #12 x 1-1/4" HWH screws. Laps stitched 12" o.c. with #1/4x7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 478 lbf. when tested with Elevate Heavy-Duty fasteners in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

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:

Base Insulation Layer (Optional)

ISO 95+ GL
Minimum 1/2" thick

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

N/A

N/A

Top Insulation Layer

ISO 95+ GL
Minimum 1.5" thick

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

N/A

N/A

Note: Insulation shall be loose-laid and membrane mechanically fastened. See base sheet attachment below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Base Sheet: One ply of SBS Poly Base, SBS Premium Poly Base, or SBS Smooth, mechanically fastened through the insulation with Heavy-Duty fasteners and Coiled Metal Batten Strip spaced 18" o.c. at the minimum 3" side laps.

Ply Sheet (Optional): One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), MB Base, fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.

Or

One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.

Membrane: One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.

Or

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3" wide side laps.



Surfacing (Optional): *Required over APP 180 Cool, APP 180 FR Cool, SBS Smooth.

Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

Maximum Design Pressure:

-52.5 psf. (See General Limitation #7.)



Membrane Type: SBS

Deck Type 7I: Recover, Insulated

Deck Description: Minimum 22 ga., Grade 33 steel deck secured to structural support at a maximum spacing of 6 ft. o.c. or Concrete deck. Steel deck is fastened to supports at every flute with #12 x 1-1/4" HWH screws. Laps stitched 24" o.c. with #1/4x7/8" HWH screws. *The deck should record a Minimum Characteristic Resistance Force (MCRF) of 120 lbf. when tested with Elevate All-Purpose or Elevate Heavy-Duty fasteners in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table

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>Base Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL Minimum 1/2" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL Minimum 1" thick	N/A	N/A

Note: Insulation shall be loose-laid and membrane mechanically fastened. See base sheet attachment below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Base Sheet: One ply of SBS Base, SBS Glass Torch Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, SBS Smooth or SBS Poly Torch Base, mechanically fastened through the insulation with All-Purpose Fasteners (Steel deck only), Elevate Heavy-Duty, or Concrete Drive Fasteners (Concrete only) and Insulation Fastening Plates spaced 12" o.c. at the minimum 3.4" side laps and 12" o.c. in two staggered rows in the field of the roll.

Ply Sheet (Optional): One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, Ply IV (hot asphalt only), Ply VI, or (hot asphalt only) MB Base, fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
Or
One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, SBS Glass Torch Base 1.5 torch adhered with minimum 3" wide side laps.

Membrane: One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5-2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3" wide side laps.
Or
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite torch adhered with minimum 3" wide side laps.



Surfacing (Optional): *Required over APP 180 Cool, APP 180 FR Cool, SBS Smooth.

Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq, respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak No. 97, No. 97 AF or No. 169, or APOC #212 at an application rate of 1.5 gal./sq.
3. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

Maximum Design Pressure:

-60 psf. (See General Limitation #7.)



RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.
2. All assemblies listed herein shall be installed in compliance with the applicable sections of FBC 1521. Uplift performance of assemblies bonded to existing roofing system shall be verified per 1521.10. Uplift performance of assemblies mechanically attached through existing roofing system shall be verified per 1521.11.

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 sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. 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 with 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

