



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 Steel 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. 23-0613.24 and consists of pages 1 through 46.
The submitted documentation was reviewed by Jorge L. Acebo.

04/23/26



NOA No.: 26-0210.06
Expiration Date: 03/08/31
Approval Date: 04/23/26
Page 1 of 46

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Material:	APP/SBS
Deck Type:	Steel
Maximum Design Pressure:	-157.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
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.



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 Cap UltraWhite	39.4" x 33'10"	ASTM D6164	UltraWhite granule surfaced, modified bitumen membrane reinforced with non-woven polyester mat.
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
ISOGARD HD	High density Polyisocyanurate roof board with a coated fiberglass facer	Amrize Building Envelope LLC
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia Pacific Gypsum LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum roof board with fiber reinforcement	United States Gypsum Corporation

APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	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.	MB 2” Barbed Metal Seam Plate	Metal plates used for membrane securement.	2” dia	Amrize Building Envelope LLC
4.	Insulation Fastening Plate	Insulation plate for use with Elevate Fasteners.	3” round	Amrize Building Envelope LLC
5.	Elevate Coiled Metal Batten Strip	Galvalume batten strip	220’ per coil	Amrize Building Envelope LLC
6.	Elevate Heavy-Duty Plus	High thread fastener for use in wood, steel or concrete decks.	Various	Amrize Building Envelope LLC
7.	Trufast #14 HD Fastener	Insulation and membrane fastener.	Various	Altenloh, Brinck & Co. U.S., Inc.
8.	Trufast 3” Metal Insulation Plate	Galvalume AZ50 steel plate.	3.23" round	Altenloh, Brinck & Co. U.S., Inc.



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>	
FM Approvals	3017121	FM 4470	06/12/03	
	0W1A8.AM	FM 4470	12/07/92	
	3022502	FM 4470	01/29/07	
	3030227	FM 4470	06/18/07	
	3030107	FM 4470	05/18/07	
	3026520	FM 4470	12/14/06	
	3033218	FM 4470	08/04/10	
	3040795	FM 4470	03/24/11	
	3041534	FM 4470	03/09/11	
	3038191	FM 4470	08/04/11	
	3040109	FM 4470	03/09/11	
	3040306	FM 4470	09/07/11	
	3044047	FM 4470	05/17/12	
	3046333	FM 4470	08/10/12	
	3046870	FM 4470	03/22/13	
	3047398	FM 4470	08/15/13	
	RR205537	FM 4470	05/31/16	
	UL LLC	R9516	UL 790	03/31/26
	Trinity ERD	4810.01.96-1	TAS 114(C) & (D)	01/31/96
		F10370.05.08	ASTM C1289	05/08/08
PRI Construction Materials Technologies, LLC	FBP-106-02-01	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	
	FBP-141-02-01	TAS 114(J)	12/18/13	
	FBP-142-02-01 Rev.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-189-02-01	TAS 114(J)	07/31/14	
	FBP-184-02-03	TAS 114(J)	07/31/14	
	FBP-181-02-01B.1	TAS 114(J)	07/31/14	
	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(2), B(3), C(2), C(3), C(4), C(7), C(8), C(9), C(10), C(11), C(13), C(14), D(2), D(3)	02/08/16
FM Approval Deck Limitation		B(1), C(1), C(5), C(6), C(12), C(15), D(1)	01/01/13



APPROVED ASSEMBLIES

Membrane Type: APP/SBS

Deck Type 2I: Steel, Insulated

Deck Description: Min. 22 ga., Grade 33, Type B steel deck attached to structural supports spaced a maximum 6 ft. o.c. with ITW Buildex Traxx/5 fasteners placed 6" o.c. ITW Buildex Traxx/1 fasteners were installed 24" o.c. at the panel side laps.

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 or 2 with 4	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>
ISO 95+ GL Minimum 1.5" 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 12" o.c. or I.S.O. Stick applied in 3/4" to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

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



**Ply Sheet
(Optional):
(Continued)**

(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 to 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 Smooth, SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR, SBS Premium FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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 with 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.

Or

(Not for use with 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 SBS Smooth, APP 180 Cool, or APP 180 FR Cool.**

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. Roof gravel at 400 lbs./sq. in a flood coat of approved asphalt
2. Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq. (SBS roof covers).

**Maximum Design
Pressure:**

-45 psf. (See General Limitation #7)



Membrane Type: APP/SBS

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B (min. Grade 33) steel deck is secured structural supports at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports with #12 – 24 x 1-¼” HWH screws spaced a maximum 6” o.c. one fastener at each bearing attachment point. Side Laps are fastened at 24” o.c. with ¼” x ⅞” HWH screws.

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 1½” thick	1 with 4	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 ½” thick	N/A	N/A

Note: Top layer of insulation shall be adhered with I.S.O. Twin Pack Insulation Adhesive applied in ½” to ¾” wide ribbons spaced 6” o.c. (not with SECUROCK) or with I.S.O. Stick applied in ¾” 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 (not for use with Multi-Purpose MB Cold Adhesive), Ply VI (not for use with Multi-Purpose MB Cold Adhesive) fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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 in. 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 to 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 to 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 to 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 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 to 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
(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 in. 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 to 2 gal./sq.
 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 SBS Smooth, APP 180 Cool, APP 180 FR Cool.**
 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 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B (min. Grade 33) steel deck is secured to structural supports at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports with 5/8" puddle welds spaced a maximum 6" o.c. at each bearing attachment point. Side Laps are fastened at 24" o.c. with 1/4" x 7/8" HWH screws.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type B(3): Base layer of insulation mechanically fastened, top layer of insulation adhered with approved adhesive. Membrane fully adhered.

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 with 4	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 Base, Ply IV, (not for use with Multi-Purpose MB Cold Adhesive) Ply VI(not for use with Multi-Purpose MB Cold Adhesive),MB Base, fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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 Torch Base, SBS Glass Torch Base 1.5 torch adhered with minimum 3 in. 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 to 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 Poly Base, SBS Poly Base, SBS Premium Base, Ply IV (not for use with Multi-Purpose MB Cold Adhesive), Ply VI (not for use with Multi-Purpose MB Cold Adhesive), MB Base, fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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
(Not for use with APP sheets) 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
(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 to 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 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 to 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
(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 in. 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 to 2 gal./sq.
 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: APP/SBS
Deck Type 2I: Steel, Insulated
Deck Description: Min. 22 ga., Grade 33 steel deck attached to structural supports spaced a maximum 6 ft. o.c. with ITW Buildex Traxx/5 fasteners placed 6" o.c. ITW Buildex Traxx/1 fasteners installed a maximum 24" o.c. at the panel side laps.

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

System Type C(1): All layers of insulation 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 2" thick	1 or 2 with 4	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 (cold adhesive only), SBS Base, SBS Premium Base, SBS Poly Base, or MB Base (hot asphalt only) fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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.

Ply Sheet (Optional): One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), or MB Base (hot asphalt only) fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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.

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 to 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.

Surfacing (Optional): (Optional) 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 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½.5 gal./sq.

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



Membrane Type: APP/SBS
Deck Type 2I: Steel, Insulated
Deck Description: Min. 22 ga., Grade 33 steel deck attached to structural supports spaced a maximum of 6 ft. o.c. Steel deck is attached to supports at each flute with #12-24 HWH screws. Panel side laps are stitched a maximum 24" o.c. with 1/4" x 7/8" HWH screws.

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

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" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISOGARD HD Minimum 0.5" thick	1 with 4	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 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 to 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 to 2.0 gal./sq.

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 to 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 to 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 to 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 to 2.0 gal./sq.
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): 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 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½.5 gal./sq.

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



- Membrane Type:** APP/SBS
- Deck Type 2I:** Steel, Insulated
- Deck Description:** Min. 22 ga., Grade 40, Type B steel deck attached to structural supports spaced a maximum 6 ft. o.c. Steel deck is attached to supports 5/8" diameter puddle welds. Panel side laps are stitched a maximum 24" o.c. with 1/4"x 7/8" HWH screws.
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" 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 4	1:1.78 ft ²
SECUROCK Gypsum-Fiber Roof Board Minimum 1/2" thick	1 with 4	1:1.78 ft ²

Note: 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 (over ISO 95+ GL only) fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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 to 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 (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 to 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 to 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 to 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 to 2.0 gal./sq.
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 2I: Steel, Insulated
Deck Description: Min. 22 ga., Grade 40, Type B steel deck attached to structural supports spaced a maximum 6 ft. o.c. Steel deck is attached to supports $\frac{5}{8}$ " diameter puddle welds. Panel side laps are stitched a maximum 24" o.c. with 1/4"x 7/8" HWH screws.

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

System Type C(4): All layers of insulation 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 2.5" thick	1 with 4	1:1 ft ²

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

Or

One or more plies of SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, SBS Smooth, or MB Base fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 2.0 gal./sq. with minimum 3" 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 (not for use with Multi-Purpose MB Cold Adhesive), Ply VI (not for use with Multi-Purpose MB Cold Adhesive), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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 to 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 to 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 to 2.0 gal./sq.
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 2I: Steel, Insulated
Deck Description: Min. 22 ga., Grade 33, Type B steel deck attached to structural supports spaced a maximum 6 ft. o.c. with ITW Buildex Traxx/5 fasteners placed 6" o.c. ITW Buildex Traxx/1 fasteners installed a maximum 24" o.c. at the panel side laps.

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

System Type C(5): All layers of insulation 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 2" thick	1 or 2 with 4	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.

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 to 2.0 gal./sq. with minimum 3" wide side laps.

Ply Sheet (Optional): One or more plies of SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, Ply IV (hot asphalt only), Ply VI (hot asphalt only), or MB Base (hot asphalt only) fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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.

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 to 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.

Surfacing (Optional): Install one of the following to obtain required fire classification.
 1. Roof Gravel at 400 lbs./sq. in a flood coat of approved asphalt

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



Membrane Type: APP/SBS
Deck Type 2I: Steel, Insulated
Deck Description: Min. 22 ga., Grade 80, Type B steel deck attached to structural supports spaced a maximum 6 ft. o.c. with two (2) ITW Buildex Traxx/5 fasteners and 3/4" diameter washers placed 6" o.c. ITW Buildex Traxx/1 fasteners installed a maximum 12" o.c. at the panel side laps.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table
System Type C(6): 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 2.2" thick	N/A	N/A

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum 1/2" thick	7 with 8	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 ply of Elevate SBS Base, SBS Smooth, SBS Premium Base, SBS Poly Base, or SBS Premium Poly Base fully adhered to the coverboard with hot asphalt applied at a rate of 20-25 lbs./sq.

Ply Sheet: One or more plies of Elevate SBS Smooth, SBS Base, SBS Premium Base, SBS Poly Base, or SBS Premium Poly Base fully adhered with hot asphalt applied at a rate of 20-25 lbs./sq.

Membrane: **(Only over SBS Smooth or SBS Base)** One ply of SBS Cap, SBS Cap UltraWhite, SBS Smooth, SBS Premium, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered with hot asphalt at a rate of 20-25 lbs./sq.
 Or
(Over SBS Premium Poly Base, only) One ply of SBS FR Torch, SBS FR Torch UltraWhite, SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Premium FR Torch or SBS Premium FR Torch UltraWhite torch adhered.



Surfacing (Optional): *Required with 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 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1.5 gal./sq.

Maximum Design Pressure:

-112.5 psf. (See General Limitation #7) with Hot Asphalt Applied Membranes.
-45 psf. (See General Limitation #7) with Torch Applied Membranes.



Membrane Type: APP/SBS
Deck Type 2I: Steel, Insulated
Deck Description: 18-22 ga., Type B (min. Grade 33) steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports $\frac{5}{8}$ " diameter puddle welds at every flute. Panel side laps are fastened at 24" o.c. with $\frac{1}{4}$ " x $\frac{7}{8}$ " HWH screws.

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 $\frac{1}{2}$ " 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 4	1:2.67 ft ²
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum $\frac{1}{2}$ " thick	1 with 4	1:2.67 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 (not for use with Multi-Purpose MB Cold Adhesive), Ply VI(not for use with Multi-Purpose MB Cold Adhesive), MB Base, fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. (DensDeck and SECUROCK only) 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 (**DensDeck and SECUROCK only**) with minimum 3" wide side laps.
 Or
 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 to 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 (**DensDeck and SECUROCK only**).



Ply Sheet (Optional): **(Not for use with APP sheets)** One or more plies of SBS Smooth, SBS Base, SBS Premium Poly Base, SBS Poly Base, SBS Premium Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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
(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 in. 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 to 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 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 to 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
(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 to 2.0 gal./sq.
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: -45 psf. (See General Limitation #7)



Membrane Type: APP/SBS
Deck Type 2I: Steel, Insulated
Deck Description: 18-22 ga., Type B (min. Grade 33) steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports with #12-24 x 1¼” HWH screws spaced a maximum 6” o.c. Side Laps are fastened at 24” o.c. with ¼” x ⅞” HWH screws.

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 Minimum ½” thick	1 with 4	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 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 to 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 to 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 to 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 to 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 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 to 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
(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 in. 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 to 2.0 gal./sq.
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: APP/SBS
Deck Type 2I: Steel, Insulated
Deck Description: 18-22 ga., Type B (min. Grade 33) steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports $\frac{5}{8}$ " with diameter puddle welds. Panel side laps are stitched a maximum 24" o.c. with 1/4"x 7/8" HWH screws.

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.

<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 4	1:1.6 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 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 to 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 to 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 (not for use with Multi-Purpose MB Cold Adhesive), Ply VI (not for use with Multi-Purpose MB Cold Adhesive), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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 to 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 to 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 to 2.0 gal./sq.
 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: -82.5 psf. (See General Limitation #7)



Membrane Type: APP/SBS
Deck Type 2I: Steel, Insulated
Deck Description: 18-22 ga., Type B (min. Grade 33) steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports $\frac{5}{8}$ " with diameter puddle welds. Panel side laps are stitched a maximum 24" o.c. with 1/4"x 7/8" HWH screws.

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</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 4	1:2.13 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 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 to 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 to 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 to 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 to 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 to 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 to 2.0 gal./sq.
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: APP/SBS
Deck Type 2I: Steel, Insulated
Deck Description: 18-22 ga., Type B (min. Grade 33) steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports with #12-24 x 1¼” HWH screws spaced a maximum 6” o.c. Side Laps are fastened at 24” o.c. with ¼” x ⅞” HWH screws.

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</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 ½” thick	1 with 4	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 (not for use with Multi-Purpose MB Cold Adhesive), Ply VI(not for use with Multi-Purpose MB Cold Adhesive), MB Base, fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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.
 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 to 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: (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 to 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 1.5 to 2.0 gal./sq.
 Or
 (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.

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 to 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 to 2.0 gal./sq.
 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: -75 psf. (See General Limitation #7)



Membrane Type: APP/SBS
Deck Type 2I: Steel, Insulated
Deck Description: Minimum 22 ga. (See MDP below for minimum yield strength) steel deck secured at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports with ITW Buildex TRAXX 5 fasteners spaced a maximum 6" o.c. Side Laps are fastened at 30" o.c. with ITW TRAXX 1 fasteners.

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</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL Minimum 1½" 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	1 with 4	1:1.45 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 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 to 2.0 gal./sq. or hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3.75" 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): **(Only over SBS Base or SBS Premium Base)** One or more plies of SBS Smooth, SBS Base, fully adhered with hot asphalt applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3 in. wide side laps.
 Or
(Over SBS Glass Torch Base, 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 in. wide side laps.
 One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, 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 (**over SBS Base, SBS Premium Base, SBS Poly Base only**) applied at a rate of 1.5 to 2.0 gal./sq. or hot asphalt (**Over SBS Base, SBS Smooth, only**) applied in the EVT range at a rate of 20-40 lbs./sq. with minimum 3 in. wide side laps.

Or

(Over SBS Glass Torch Base, SBS Poly Torch Base, SBS Glass Torch Base 1.5, SBS Premium Poly Base only) One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch (**Over SBS Glass Torch Base, SBS Poly Torch Base only**), SBS Torch UltraWhite (**Over SBS Glass Torch Base, SBS Poly Torch Base only**), SBS Premium Torch (**Over SBS Glass Torch Base, SBS Poly Torch Base only**), SBS Premium Torch UltraWhite (**Over SBS Glass Torch Base, SBS Poly Torch Base only**), 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:

-82.5 psf. on min. Grade 33 Steel Deck - (See General Limitation #7)

-90 psf. on min. Grade 80 Steel Deck - (See General Limitation #7)



Membrane Type: APP/SBS
Deck Type 2I: Steel, Insulated
Deck Description: 18-22 ga., Type B (min. Grade 33) steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports with #12-24 HWH screws. Panel side laps are stitched a maximum 24" o.c. with 1/4" x 7/8" HWH screws.

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 1/4" thick	1 with 4	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 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 to 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 (not for use with Multi-Purpose MB Cold Adhesive), Ply VI(not for use with Multi-Purpose MB Cold Adhesive), MB Base, fully adhered to the insulation with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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): **(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 to 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.
Or
(Not for use with APP sheets) One or more plies of SBS Smooth, SBS Base, SBS Premium Poly Base, SBS Poly Base, SBS Premium Base, Ply IV (not for use with Multi-Purpose MB Cold Adhesive), Ply VI(not for use with Multi-Purpose MB Cold Adhesive), MB Base, fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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, SBS Glass Torch Base 1.5 torch adhered with minimum 3 in. wide side laps.

Membrane: **(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 to 2.0 gal./sq.
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.
Or
(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, SBS Glass FR UltraWhite fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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 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 2I: Steel, Insulated
Deck Description: Min. 22 ga., Grade 33, Type B steel deck attached to structural supports spaced a maximum 6 ft. o.c. Steel deck is attached to supports $\frac{5}{8}$ " diameter puddle welds. Panel side laps are stitched a maximum 24" o.c. with 1/4"x 7/8" HWH screws.

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>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95 + GL Minimum 2.5" thick	1 with 4	1:2.13 ft ²

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

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

Or

One or more plies of SBS Base, SBS Premium Base, SBS Poly Base, SBS Premium Poly Base, SBS Smooth, or MB Base fully adhered to the insulation with Fjrestone Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 2.0 gal./sq. with minimum 3" 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 (not for use with Multi-Purpose MB Cold Adhesive), Ply VI (not for use with Multi-Purpose MB Cold Adhesive), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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 to 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 to 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 to 2.0 gal./sq.
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 2I: Steel, Insulated
Deck Description: Min. 22 ga., Grade 80, Type B steel deck attached to structural supports spaced a maximum 6 ft. o.c. with two (2) ITW Buildex Traxx/5 fasteners placed 6" o.c. ITW Buildex Traxx/1 fasteners installed a maximum 24" o.c. at the panel side laps.

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

System Type C(15): Membrane fully adhered over mechanically fastened insulation.

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 2.5" thick	1 or 2 with 4	1:1 ft ²

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

Base Sheet: One 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 to 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 to 2.0 gal./sq.

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 to 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 to 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 to 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 to 2.0 gal./sq.
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.**

Install one of the following to obtain required fire classification.

1. Roof Gravel at 400 lbs./sq. in a flood coat of approved asphalt

Maximum Design Pressure:

-97.5 psf. (See General Limitation #7)



Membrane Type: SBS
Deck Type 2I: Steel, Insulated
Deck Description: Minimum 22 ga., ASTM A1008, Grade 80, Type B steel deck attached to structural supports spaced maximum 71 in. o.c. with two (2) ITW Buildex Traxx/5 fasteners installed 6" o.c. ITW Buildex Traxx/1 fasteners installed maximum 14" o.c. at the panel side laps.

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

System Type D(1): All layers of insulation and base sheet simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
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>
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/2" thick	N/A	N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. Please refer to Roofing Application Standard RAS 117 for insulation attachment. See base/anchor sheet below for fasteners and density.

Base Sheet: One ply of SBS Poly Torch Base sheet mechanically fastened to the deck through the insulation as described below:

Fastening: Heavy-Duty Plus fasteners spaced 6" o.c. along Coiled Metal Batten Strip centered within the 4" wide side laps spaced 36" o.c. The minimum 4" side laps are torch adhered.

Ply Sheet (Optional): One or more plies of SBS Glass Torch Base, SBS Poly Torch Base, adhered with minimum 3.75" wide side laps.

Membrane: SBS Torch, SBS Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS Premium FR Torch or SBS Premium FR Torch UltraWhite cap sheet torch applied to the base or ply sheet with minimum 3.75" 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 to obtain required fire classification.

- Gravel or slag at 400 lb., set in a flood coat of approved asphalt
- Roof gravel in Elevate Multi-Purpose MB Cold Adhesive at 2.5 gal./sq.

Maximum Design Pressure: -157.5 psf. (See General Limitation #7)



Membrane Type: SBS
Deck Type 2I: Steel, Insulated
Deck Description: 18-22 ga., Type B (min. Grade 33) steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports with #12-24 x 1¼” HWH screws spaced a maximum 6” o.c. Side Laps are fastened at 12” o.c. with ¼” x ⅞” HWH screws.

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.

<u>Base Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL Minimum ½” 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 1.5” 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 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), or MB Base fully adhered with Elevate Multi-Purpose MB Cold Adhesive applied at a rate of 1.5 to 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 to 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: APP/SBS
Deck Type 2I: Steel, Insulated
Deck Description: 18-22 ga., Type B (min., Grade 33) steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports with #12-24 x 1 1/4" HWH screws spaced a maximum 6" o.c. Side Laps are fastened at 24" o.c. with 1/4" x 7/8" HWH screws.

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" 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 1.5" 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 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): **(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 to 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 to 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 to 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

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 to 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 to 2.0 gal./sq.

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)



STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

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

