

BOARD AND CODE ADMINISTRATION DIVISIONT (786)315-2590 F (786) 315-2599NOTICE OF ACCEPTANCE (NOA)www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)

GAF 1 Campus Drive Parsippany, NJ 07054

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: GAF Ruberoid[®] Modified Bitumen Roof System for Wood 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. 18-0919.12 and consists of pages 1 through 68. The submitted documentation was reviewed by Jorge L. Acebo.

12/07/23 A W

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ROOFING SYSTEM APPROVAL

Category:	Roofing
<u>Sub-Category:</u>	Modified Bitumen
<u>Material:</u>	APP/SBS
Deck Type:	Wood
Maximum Design Pressure:	-105 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

<u>Product</u>	Dimensions	Test <u>Specification</u>	Product <u>Description</u>
GAFGLAS [®] Ply 4	39.37"	ASTM D2178	Smooth surfaced asphaltic ply sheet
Tri-Ply [®] Ply 4 Ply Sheet	(1 meter) Wide 39.37" (1 meter) Wide	ASTM D2178	reinforced with fiberglass mat. Smooth surfaced asphaltic ply sheet reinforced with fiberglass mat
GAFGLAS [®] FlexPly [™] 6	(1 meter) Wide 39.37" (1 meter) Wide	ASTM D2178	Smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
GAFGLAS [®] #75 Base Sheet	39.37" (1 meter) Wide	ASTM D4601	Smooth asphaltic base or base/ply sheet reinforced with fiberglass mat
Tri-Ply [®] #75 Base Sheet	(1 meter) Wide 39.37" (1 meter) Wide	ASTM D4601	Smooth asphaltic base or base/ply sheet reinforced with fiberglass mat.
GAFGLAS [®] #80 Ultima [™] Base Sheet	39.37" (1 meter) Wide	ASTM D4601	Smooth asphaltic base or base/ply sheet reinforced with fiberglass mat.
GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet	39.37" (1 meter) Wide	ASTM D4897	Smooth surfaced asphaltic perforated venting base sheet reinforced with
GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet	39.37" (1 meter) Wide	ASTM D4897	Smooth surfaced asphaltic nailable venting base sheet reinforced with fiberglass mat.
Ruberoid [®] HW 25 Smooth	39.37" (1 meter) Wide	ASTM D6163	Smooth surfaced torch applied SBS base or ply sheet reinforced with a fiberglass
Ruberoid [®] HW Smooth	39.37" (1 meter) Wide	ASTM D6164	Smooth surfaced torch applied SBS base or ply sheet reinforced with a polyester mat
Ruberoid [®] HW Granule	39.37"	ASTM D6164	Granule surfaced torch applied SBS cap
Ruberoid [®] HW Granule FR	(1 meter) wide 39.37" (1 meter) Wide	ASTM D6164	Fire retardant granule surfaced heat- welded SBS cap sheet reinforced with a
Ruberoid [®] HW Plus Granule	39.37" (1 meter) Wide	ASTM D6164	Granule surfaced torch applied SBS cap
Ruberoid [®] HW Plus Granule FR	(1 meter) Wide 39.37" (1 meter) Wide	ASTM D6164	Fire retardant granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.



		Test	Product
Product	<u>Dimensions</u>	Specification	Description
Ruberoid [®] EnergyCap [™] HW Plus Granule FR	1 meter (39.37") Wide	ASTM D6164	Fire retardant granule surfaced heat- welded SBS cap sheet reinforced with a polyester mat. Cap sheet is factory coated with TOPCOAT [®] EnergyCote [™] Elastomeric Coating
Ruberoid [®] Torch Smooth	39.37" (1 meter) Wide	ASTM D6222	Smooth surfaced torch applied APP base or ply sheet reinforced with a polyester mat
Tri-Ply [®] APP Smooth Membrane	39.37" (1 meter) Wide	ASTM D6222	Smooth surfaced torch applied APP cap, base or ply sheet reinforced with a polyester mat.
Ruberoid [®] Torch Granule	39.37" (1 meter) Wide	ASTM D6222	Granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Ruberoid [®] Torch Plus Granule FR	39.37" (1 meter) Wide	ASTM D6222	Fire retardant granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Ruberoid [®] EnergyCap [™] Torch Granule FR	39.37" (1 meter) Wide	ASTM D6222	Fire retardant granule surfaced torch applied APP cap sheet reinforced with a polyester mat. Cap sheet is factory coated with TOPCOAT [®] EnergyCote [™] Elastomeric Coating.
Ruberoid [®] 20 Smooth	39.37" (1 meter) Wide	ASTM D6163	SBS polymer-modified asphalt base or ply sheet reinforced with a fiberglass mat.
Ruberoid [®] 30 Granule	39.37" (1 meter) Wide	ASTM D6163	Granule surfaced mop applied SBS cap sheet reinforced with a fiberglass mat.
Ruberoid [®] 30 Granule FR	39.37" (1 meter) Wide	ASTM D6163	Fire retardant granule surfaced mop applied SBS cap sheet reinforced with fiberglass mat.
Ruberoid [®] 30 Plus Granule FR	39.37" (1 meter) Wide	ASTM D6163	Fire retardant granule surfaced mop applied SBS cap sheet reinforced with fiberglass mat.
Ruberoid [®] Mop Granule	39.37" (1 meter) Wide	ASTM D6164	Granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Tri-Ply [®] SBS Granule Cap Sheet	39.37" (1 meter) Wide	ASTM D6164	Granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Intec Flex PRF	39.37" (1 meter) Wide	ASTM D6164	Granule surfaced mop applied SBS cap sheet reinforced with a polyester mat
Ruberoid [®] Mop Smooth 1.5	(1 meter) Wide	ASTM D6164	Smooth surfaced mop applied SBS base sheet reinforced with a polyester mat
Ruberoid® Mop Plus Smooth	(1 meter) Wide 39.37"	ASTM D6164	Smooth surfaced mop applied SBS base or
Ruberoid [®] Mop Plus Granule FR	(1 meter) wide 39.37" (1 meter) Wide	ASTM D6164	Fire retardant granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.



		Test	Product
Product	<u>Dimensions</u>	<u>Specification</u>	Description
Ruberoid [®] EnergyCap [™] Mop Plus Granule FR	39.37" (1 meter) Wide	ASTM D6164	Fire retardant granule surfaced mop applied SBS cap sheet reinforced with a polyester mat. Cap sheet is factory coated with TOPCOAT [®] EnergyCote [™] Elastomeric Coating.
Ruberoid [®] Mop Granule FR	39.37" (1 meter) Wide	ASTM D6164	Fire retardant granule surfaced mop applied SBS cap sheet reinforced with a polyester mat
Ruberoid [®] EnergyCap [™] 30 Granule FR	39.37" (1 meter) Wide	ASTM D6163	Fire retardant granule surfaced mop applied SBS cap sheet reinforced with a fiberglass mat. Cap sheet is factory coated with TOPCOAT [®] EnergyCote [™] Elastomeric Coating.
GAFGLAS [®] Mineral-Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Granule surfaced asphaltic cap sheet reinforced with fiberglass mat.
Tri-Ply [®] BUR Granule Cap Sheet	39.37" (1 meter) wide	ASTM D3909	Granule surfaced asphaltic cap sheet reinforced with a fiberglass mat.
GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	Granule surfaced asphaltic cap sheet reinforced with fiberglass mat. Cap sheet is factory coated with TOPCOAT [®] EnergyCote [™] Elastomeric Coating.
TOPCOAT [®] Membrane	1, 5 or 55 gallons	ASTM D6083	Water based elastomeric coating.
United Coatings [™] Roof Mate TCM Coating	1, 5 or 55 Gallons	ASTM D6083	Water-based elastomeric coating
TOPCOAT [®] Surface Seal SB	5 or 55 gallons	ASTM D6083	Solvent based thermoplastic rubber sealant designed to protect and restore aged roof surfaces and to increase roof reflectivity
United Coatings [™] Surface Seal SB Roof Coating	5 or 55 Gallons	ASTM D6083	Solvent-based thermoplastic rubber sealant designed to protect and restore aged roof surfaces and to increase roof reflectivity
TOPCOAT [®] MB Plus	5 or 55 gallons	Proprietary	Water based, low VOC primer used to block asphalt bleed-through.
United Coatings [™] Roof Mate MB Plus Coating	5 or 55 Gallons	Proprietary	Water based, low VOC primer designed to block asphalt bleed-through.
FireOut [™] Fire Barrier Coating	5 or 55 gallons	Proprietary	Low VOC, water-based fire barrier
Flex Seal [™]	1, 5 gallons or 1 qt. tube	TAS 139	Solvent-based elastomeric sealant.
VersaShield [®] Fire-Resistant Roof Deck Protection	12" x 100' rolls	ASTM D226	Non-asphaltic fiberglass-based underlayment and /or fire barrier.
VersaShield [®] Solo [™] Fire- Resistant Slip Sheet	42" roll wide, 100 ft.	ASTM D146, D828, D4869, D6757	Non-asphaltic, fire resistant fiberglass underlayment
Matrix [™] 102 SBS Membrane Adhesive	3, 5 or 55 gallons	ASTM D3019	Fiber reinforced rubberized cold-applied adhesive for modified bitumen roof systems.



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APPROVED INSULATIONS:

Product Name	Table 2Product Description	Manufacturer (With Current NOA)
EnergyGuard [™] Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard [™] Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard [™] RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard [™] RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard [™] RH Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard [™] RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard [™] Perlite Recover Board	Perlite recover board	GAF
EnergyGuard [™] Perlite Roof Insulation	Perlite insulation board	GAF
EnergyGuard [™] RA Composite Polyiso Insulation	Polyisocyanurate foam insulation with high density fiberboard or permalite	GAF
Structodek [®] High Density Fiberboard Roof Insulation	High density fiberboard	Blue Ridge Fiberboard, Inc.
SECUROCK [®] Gypsum-Fiber Roof Board	Gypsum board	United States Gypsum Corp.
SECUROCK [®] Glass-Mat Roof Board	Gypsum board	United States Gypsum Corp.
DensDeck [®] Roof Board	Gypsum board	Georgia-Pacific
DensDeck [®] Prime Roof Board	Gypsum board	Georgia-Pacific



APPROVED FASTENERS:

Fastener Number	Product Name	TABLE 3ProductDescription	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec [™] #12 Fastener	Phillips head, modified buttress thread, pinch point, carbon steel fastener for use in steel or wood decks. With CR-10 coating. Available with a pinch point or drill point	#12 x 8" Max. Length #3 Phillips head.	GAF
2.	Drill-Tec [™] #14 Fastener	Truss head, self-drilling, pinch point, high thread fastener for use in steel, wood or concrete decks	#14 x 16" Max. Length #3 Phillips head	GAF
3.	Drill-Tec [™] XHD Fastener	Truss head, self-drilling, pinch point, high thread fastener for use in wood or steel decks. Carbon steel extra heavy duty fastener used in steel decks	#15 x 16" Max. Length #3 Phillips head.	GAF
4.	Drill-Tec [™] 3" Steel Plate	Round Galvalume [®] steel stress plate with reinforcing ribs and recessed for use with Drill- Tec [™] fasteners.	3" Round	GAF
5.	Drill-Tec [™] 3" Standard Steel Plate	Galvalume [®] coated steel stress plate for use with approved Drill-Tec [™] fasteners	3" Round	GAF
6.	Drill-Tec [™] ASAP 3S	Drill-Tec [™] #12 fastener with Drill-Tec [™] 3" Standard Steel Plate.	#12 x 8" Max. Length #3 Phillips head with 3" Round plate	GAF
7.	Drill-Tec [™] AccuTrac [®] Flat Plate	A2-SS aluminized steel plate for use with Drill- Tec [™] fasteners.	3" square; .017" thick	GAF
8.	Drill-Tec [™] AccuTrac [®] Recessed Plate	Galvalume [®] steel plate with recess for use with Drill-Tec [™] fasteners	3" square; .017" thick.	GAF
9.	Drill-Tec [™] 3 in. Ribbed Galvalume Plate (Flat)	Round Galvalume [®] plated steel stress plate with reinforcing ribs for use with Drill-Tec [™] fasteners.	3" Round	GAF



EVIDENCE SUBMITTED:

Test Agency	<u>Test Identifier</u>	Description	<u>Date</u>
FM Approvals	3001276	FMRC 4470	01/28/99
••	3010215	FMRC 4470	03/01/01
	3029832	FMRC 4470	05/11/07
	3036980	FMRC 4470	08/14/09
	3034312	FMRC 4470	04/09/09
	3040738	FMRC 4470	05/18/12
	3042887	FMRC 4470	11/14/11
	3046081	FMRC 4470	02/13/13
	3043633	FMRC 4470	01/20/12
	1B9A8.AM	FMRC 4470	09/04/97
	3B9Q1.AM	FMRC 4470	01/08/08
	3D4Q2.AM	FMRC 4470	04/30/97
	0D1A8.AM	FMRC 4470	04/01/98
	797-03221-267	FMRC 4470	09/24/07
	797-10228-267	FMRC 4470	01/15/15
	797-04694-267	FMRC 4470	06/17/09
	797-03825-267	FMRC 4470	07/14/08
	RR203450	FMRC 4470	12/04/15
	FM Letter	FMRC 4470	04/11/13
	FM Letter	FMRC 4470	09/15/15
UL LLC	R1306	UL 790	11/30/23
IRT-ARCON Inc.	02-005	TAS 114-J	07/19/04
	02-014	TAS 114-J	04/08/02
Trinity ERD	C8500SC.11.07	ASTM D6862	11/30/07
	G30250.02.10-2	ASTM D6222	11/11/10
	G30250.02.10-3-R2	ASTM D3909	06/03/15
	G31360.03.10	ASTM D6164	03/31/10
	G32520.06.11	ASTM D1876	06/28/11
	G33470.01.11	ASTM D6164	01/13/11
	G34140.04.11-2	ASTM D6163	04/25/11
	G34140.04.11-4-R2	ASTM D4601	6/4/2015
	G34140.04.11-5-R3	ASTM D4897	6/4/2015
	G36780.07.11-R1	TAS 114-J	07/18/11
	G40630.01.14-1	ASTM D6163	01/06/14
	G40630.01.14-2A	ASTM D5147	01/07/14
	G40630.01.14-2B-R1	ASTM D6164	01/16/15
	G40630.01.14-2C	ASTM D6164	01/07/14
	G40630.03.14	ASTM D5147	03/06/14
	G43190.03.14-1	ASTM D5147	03/06/14
	G43190.03.14-2	ASTM D5147	03/06/14
	G43190.05.14-R1	ASTM D5147	05/20/14
	G46160.02.15	ASTM D6163	02/12/15
	G46160.02.15-2D-1	ASTM D6163	02/09/16
	G46160.03.15	ASTM D6163	03/11/15
	G46160.09.14-2A	ASTM D5147	09/09/14



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Test Agency	<u>Test Identifier</u>	Description	Date
Trinity ERD	G46160.09.14-3A	ASTM D6164	09/09/14
5 1	G46160.09.14-3B	ASTM D6164	09/09/14
	G46160.09.14-3C	ASTM D5147	09/09/14
	G6850.08.08	ASTM D6163	08/01/08
	G6850.08.08-R1	ASTM D6164	04/14/11
	G6850.11.08	ASTM D6222	02/17/09
	SC6870.08.14-R1	ASTM D3909	09/04/14
	4q-GAF-21-SSMBB-01.A	ASTM D4601	09/07/21
	4q-GAF-22-SSMBB-01.A	ASTM D6164	04/22/23
	4S-GAF-18-001.01.19-1	ASTM D2178	01/02/19
	4S-GAF-18-001.03.19.A-R1	ASTM D6222	03/13/19
	4S-GAF-18-001.11.18	ASTM D6163	11/06/18
	G43190.05.14-R1	ASTM D6222	05/20/14
	G46160.09.14-3A	ASTM D6164	09/09/14
	G46160.09.14-3C	ASTM D6164	09/09/14
	GAF-SC13105.03.17-R1	ASTM D6164	03/23/17
PRI Construction Materials	GAF-122-02-01	TAS 139	05/07/06
Technologies, LLC	GAF-245-02-01	ASTM D6083	06/10/10
-	GAF-276-02-01Rev	ASTM E2178	01/04/11
		ASTM D6083	
	GAF-306-02-01	ASTM E96	07/07/11
	GAF-314-02-01	ASTM D2178	08/23/11
	GAF-315-02-01	ASTM D2178	08/23/11
	GAF-369-02-01	ASTM C1289	10/22/12
	GAF-434-02-03	TAS 114-J	09/06/13
	GAF-434-02-04	TAS 114-J	09/06/13
	GAF-464-02-01	ASTM C1289	02/06/14
	GAF-498-02-01	ASTM D6083	09/16/16
	GAF-499-02-01	ASTM D6083	03/12/14
	GAF-500-02-01	ASTM D6083	03/12/14
	GAF-559-02-01	TAS 117(B)	09/30/14
	GAF-559-02-04	ASTM D1876	10/01/14
	GAF-559-02-05	ASTM D1876	10/15/14
	GAF-559-02-06	TAS 114(H)	10/02/14
	GAF-559-02-07	ASTM D903	10/02/14
	GAF-559-02-08	ASTM D903	10/02/14
	GAF-559-02-09	ASTM D903	10/02/14
	GAF-559-02-11	TAS 114-J	10/14/14
	GAF-559-02-12	TAS 114-J	10/14/14
	GAF-559-02-13	TAS 114-J	10/15/14
	GAF-559-02-14	TAS 114-J	10/15/14
	GAF-559-02-15	TAS 114-J	10/15/14
	GAF-559-02-16	TAS 114-J	10/15/14
	GAF-559-02-18	TAS 114-J	10/15/14
	GAF-559-02-19	TAS 114-J	04/16/15



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EVIDENCE SUBMITTED: (CONTINUED)

Test Agency	<u>Test Identifier</u>	Description	<u>Date</u>
PRI Construction Materials	376T0140	ASTM D6164	08/18/21
Technologies, LLC	376T0141	ASTM D6163	01/26/22
	376T0143	ASTM D6222	08/23/21
	376T0144	ASTM D6222	08/26/21
	376T0192	ASTM D 226	09/16/21
	376T0220	ASTM D6164	03/08/22
	376T0221	ASTM D6164	01/17/22
	376T0222	ASTM D6222	01/18/22
	376T0227	ASTM D4897	12/20/21
	376T0228	ASTM D4897	12/20/21
	376T0229	ASTM D4601	12/20/21
	376T0230	ASTM D6222	03/24/22
	376T0240	ASTM D4601	12/21/21
	376T0270	Proprietary	01/14/22
	376T0272	ASTM D3909	02/03/22
	376T0273	ASTM D6222	05/04/22
	376T0274	ASTM D6222	05/04/22
	376T0275	ASTM D2178	01/31/22
	824T0047	ASTM D6163	06/30/22
	824T0051	ASTM D6164	06/09/22
Dynatech Engineering Corporation	#4482.02.95-1	TAS 114-C	09/01/95



APPROVED ASSEMBLIES

Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 19/32" or greater plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(1):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently fully adhered to insulation.
All General and Sys	stem Limitations shall apply.
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Roof Deck Protection or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #80 Ultima [™] Base Sheet, GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet, Ruberoid [®] 20 Smooth, Ruberoid [®] HW Smooth or Ruberoid [®] HW 25 Smooth base sheet mechanically fastened to deck as described below.
Fastening Option #1:	GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above anchor sheets attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the lap staggered and in two rows 18" o.c. in the field. (Maximum Design Pressure -45 psf. See General Limitation #9)
Fastening Option #2:	GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above anchor sheets attached to deck with Drill-Tec [™] #12 Fastener, Drill-Tec [™] #14 Fastener or Drill-Tec [™] XHD Fastener and Drill-Tec [™] 3" Steel Plate, Drill-Tec [™] AccuTrac [®] Flat Plate or Drill-Tec [™] AccuTrac [®] Recessed Plate installed 12" o.c. in 3 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 12.5" o.c. in the field of the sheet. (Maximum Design Pressure -45 psf. See General Limitation #9)
Fastening Option #3:	GAFGLAS [®] FlexPly ^{m} 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above anchor sheets attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the 4" lap staggered and in two rows 9" o.c. in the field. (Maximum Design Pressure –52.5 psf. See General Limitation #7)
Fastening Option #4:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above anchor sheets attached to deck with Drill-Tec [™] #12 Fastener, Drill-Tec [™] #14 Fastener or Drill-Tec [™] XHD Fastener and Drill-Tec [™] 3" Steel Plate, Drill-Tec [™] AccuTrac [®] Flat Plate or Drill-Tec [™] AccuTrac [®] Recessed Plate installed 12" o.c. in 4 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c. in the field of the sheet. (Maximum Design Pressure -45 psf. See General Limitation #9)
Fastening Option #5:	GAFGLAS [®] #80 Ultima [™] Base Sheet, Ruberoid [®] 20 Smooth base sheet attached to deck approved annular ring shank nails and 3" inverted Drill-Tec [™] 3" Steel Plate at a fastener spacing of 9" o.c. at the 4" lap staggered in two rows 9" in the field. (Maximum Design Pressure -60 psf. See General Limitation #7)

Fastening
Option #6:GAFGLAS[®] #75 Base Sheet, Tri-Ply[®] #75 Base Sheet or any of above anchor
sheets attached to deck with Drill-Tec[™] #12 Fastener, Drill-Tec[™] #14 Fastener or
Drill-Tec[™] XHD Fastener and Drill-Tec[™] 3" Steel Plate, Drill-Tec[™] AccuTrac[®]
Flat Plate or Drill-Tec[™] AccuTrac[®] Recessed Plate installed 8" o.c. in 4 rows. One
row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c.
in the field of the sheet.

(Maximum Design Pressure –45 psf. See General Limitation #9)

Insulation Fasteners

Fastener

One or more layers of any of the following insulations. **Insulation Layer**

	insulation i ustenets	I ascenet
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] Poly	viso RA Insulation,	
EnergyGuard [™] Polyiso RN Insulation, EnergyGuard [™]	RA Composite Polyiso Insula	tion
Minimum 1" thick	N/A	N/A
Structodek [®] High Density Fiber Board, EnergyGuard [™]	⁴ Perlite Recover Board	
Minimum ¹ / ₂ " thick	N/A	N/A
EnergyGuard [™] Perlite Roof Insulation		
Minimum ³ / ₄ " thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down. GAF requires either a ply of GAFGLAS[®] Stratavent[®] Perforated Venting Base Sheet laid dry or a layer of EnergyGuard[™] Perlite Roof Insulation or wood fiber overlay board on all polyisocyanurate applications.

Base Sheet:	(Optional) Install one ply of GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base
	Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet, GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4
	Ply Sheet GAFGLAS [®] FlexPly [™] 6, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop
	Plus Smooth, Ruberoid [®] 20 Smooth, Ruberoid [®] HW Smooth or Ruberoid [®] HW 25
	Smooth directly over the top layer of insulation. Adhere with any approved
	mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See
	General Limitation #4).
	OR
	GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet loose-laid dry.
Ply Sheet:	(Optional, required over GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet loose-laid dry)One or more plies GAFGLAS [®] Ply 4, GAFGLAS [®] FlexPly [™] 6,
	GAFGLAS [®] #80 Ultima [™] Base Sheet, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®]
	Mop Plus Smooth, Ruberoid [®] 20 Smooth adhered in a full mopping of approved
	asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane:	One or more plies of Ruberoid [®] 20 Smooth, Ruberoid [®] 30 Granule, Ruberoid [®] EnergyCap [™] 30 Granule FR, Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Plus Granule FR fully adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
4.	Fiber Aluminum Roof Coating.
Maximum Design	

Pressure:



Membrane Type:	APP/SBS Heat Weld
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 19/32" or greater plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(2):	Anchor sheet mechanically fastened, all layers of insulation adhered with approved asphalt.
All General and Sys	tem Limitations shall apply.
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Roof Deck Protection, VersaShield [®] Solo [™] Fire-Resistant Slip Sheet, DensDeck [®] Roof Board, SECUROCK [®] Gypsum-Fiber Roof Board, or SECUROCK [®] Glass-Mat Roof Board.
Anchor sheet:	GAFGLAS [®] #80 Ultima [™] Base Sheet, GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet, Ruberoid [®] 20 Smooth, Ruberoid [®] HW Smooth or Ruberoid [®] HW 25 Smooth base sheet mechanically fastened to deck as described below;
Fastening Option #1:	GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above anchor sheets attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the lap staggered and in two rows 18" o.c. in the field. Not for use with DensDeck or SECUROCK Fire Barrier (Maximum Design Pressure -45 psf. See General Limitation #9)
Fastening Option #2:	GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly TM 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above anchor sheets attached to deck with Drill-Tec TM #12 Fastener or Drill-Tec TM #14 Fastener and Drill-Tec TM 3" Steel Plate, Drill-Tec TM AccuTrac [®] Flat Plate or Drill-Tec TM AccuTrac [®] Recessed Plate installed 12" o.c. in 3 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 12.5" o.c. in the field of the sheet. (Maximum Design Pressure –45 psf. See General Limitation #9)
Fastening	$GAFGLAS^{\mathbb{B}}$ FlexPly TM 6 GAFGLAS [®] #75 Base Sheet Tri-Ply [®] #75 Base Sheet or
Option #3:	any of above anchor sheets attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the 4" lap staggered and in two rows 9" o.c. in the field. <u>Not for use with DensDeck or SECUROCK Fire Barrier</u> (Maximum Design Pressure –52.5 psf. See General Limitation #7)
Fastening Option #4:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above anchor sheets attached to deck with Drill-Tec TM #12 Fastener or Drill-Tec TM #14 Fastener and Drill-Tec TM 3" Steel Plate, Drill-Tec TM AccuTrac [®] Flat Plate or Drill-Tec TM AccuTrac [®] Recessed Plate installed 12" o.c. in 4 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c. in the field of the sheet. (Maximum Design Pressure –45 psf. See General Limitation #9)



Fastening Option #5:	GAFGLAS [®] #80 Ultima [™] Base Sheet, Ruberoid [®] 20 Smooth base sheet attached to deck approved annular ring shank nails and 3" inverted Drill-Tec [™] 3" Steel Plate at a fastener spacing of 9" o.c. at the 4" lap staggered in two rows 9" in the field. Not for use with DensDeck and SECUROCK Fire Barrier (Maximum Design Pressure -60 psf. See General Limitation #7)
Fastening Option #6:	GAFGLAS [®] #75 Base Sheet, Tri-Ply #75 Base Sheet, or any of above anchor sheets attached to deck with Drill-Tec [™] #12 Fastener or Drill-Tec [™] #14 Fastener and Drill-Tec [™] 3" Steel Plate, Drill-Tec [™] AccuTrac [®] Flat Plate or Drill-Tec [™] AccuTrac [®] Recessed Plate installed 8" o.c. in 4 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c. in the field of the sheet. (Maximum Design Pressure –45 psf. See General Limitation #9)

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners	Fastener
-	(Table 3)	Density/ft ²
EnergyGuard [™] RA Polyiso Insulation, EnergyGuard	[™] RA Composite Polyiso Insula	tion
Minimum 1" thick	N/A	N/A
Structodek [®] High Density Fiber Board, EnergyGuar	d [™] Perlite Recover Board	
Minimum ¹ / ₂ " thick	N/A	N/A
EnergyGuard [™] Perlite Roof Insulation		
Minimum ³ / ₄ " thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down. GAF requires either a ply of GAFGLAS[®] Stratavent[®] Perforated Venting Base Sheet laid dry or a layer of EnergyGuard[™] Perlite Roof Insulation or wood fiber overlay board on all polyisocyanurate applications.

Base Sheet: Install one ply of GAFGLAS[®] #75 Base Sheet, Tri-Ply[®] #75 Base Sheet, GAFGLAS[®] #80 Ultima[™] Base Sheet, GAFGLAS[®] Ply 4, GAFGLAS[®] FlexPly[™]
6, Ruberoid[®] Mop Smooth 1.5, Ruberoid Mop Plus Smooth, Ruberoid[®] 20 Smooth, Ruberoid[®] HW Smooth or Ruberoid[®] HW 25 Smooth directly over the top layer of insulation. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
(See General Limitation #4). OR
GAFGLAS[®] Stratavent[®] Perforated Venting Base Sheet loose-laid dry.

 Membrane: One ply of Ruberoid[®] Torch Smooth, Tri-Ply[®] APP Smooth Membrane, Ruberoid[®] Torch Granule, Ruberoid[®] Torch Plus Granule FR, Ruberoid[®] EnergyCap[™] Torch Granule FR torch applied according to manufacturer's application instructions. Or One or more plies of Ruberoid[®] HW Plus Granule, Ruberoid[®] HW Plus Granule FR, Ruberoid[®] HW Granule FR, Ruberoid[®] HW Granule, Ruberoid[®] EnergyCap[™] HW Plus Granule FR, Ruberoid[®] HW Granule, Ruberoid[®] HW Smooth and Ruberoid[®] HW 25 Smooth applied according to manufacturer's application instructions. Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq. GAFGLAS[®] EnergyCap[™] Mineral-Surfaced Cap Sheet or GAFGLAS[®] EnergyCap[™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. TOPCOAT[®] Surface Seal SB or United Coatings[™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT[®] Membrane or United Coatings[™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. 	Ply Sheet:	(Optional except over Ruberoid [®] 20 Smooth, Ruberoid [®] HW Smooth or Ruberoid [®] HW 25 Smooth or GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet loose- laid dry) One or more plies GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6 or GAFGLAS [®] #80 Ultima [™] Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Ruberoid [®] Torch Smooth or Tri-Ply [®] APP Smooth Membrane torch applied according to manufacturer's application instructions (Ruberoid [®] Torch Smooth or Tri-Ply [®] APP Smooth Membrane not to be used over GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet).
 Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA. 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq. 2. GAFGLAS[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] Mineral Surfaced Cap Sheet or GAFGLAS[®] EnergyCap[™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. 3. TOPCOAT[®] Surface Seal SB or United Coatings[™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT[®] MB Plus or United Coatings[™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq. per coat. Maximum 	Membrane:	One ply of Ruberoid [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane, Ruberoid [®] Torch Granule, Ruberoid [®] Torch Plus Granule FR, Ruberoid [®] EnergyCap [™] Torch Granule FR torch applied according to manufacturer's application instructions. Or One or more plies of Ruberoid [®] HW Plus Granule, Ruberoid [®] HW Plus Granule FR, Ruberoid [®] HW Granule FR, Ruberoid [®] EnergyCap [™] HW Plus Granule FR, Ruberoid [®] HW Granule, Ruberoid [®] HW Smooth and Ruberoid [®] HW 25 Smooth applied according to manufacturer's application instructions.
 Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq. GAFGLAS[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] Mineral Surfaced Cap Sheet or GAFGLAS[®] EnergyCap[™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. TOPCOAT[®] Surface Seal SB or United Coatings[™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT[®] MB Plus or United Coatings[™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq. (to be used as a primer) followed by TOPCOAT[®] Membrane or United Coatings[™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. 	Surfacing:	Optional on granular surfaced membranes; required for smooth membranes.
 GAFGLAS[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] Mineral Surfaced Cap Sheet or GAFGLAS[®] EnergyCap[™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. TOPCOAT[®] Surface Seal SB or United Coatings[™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT[®] MB Plus or United Coatings[™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT[®] Membrane or United Coatings[™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. 	8	Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
 3. TOPCOAT[®] Surface Seal SB or United Coatings[™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT[®] MB Plus or United Coatings[™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT[®] Membrane or United Coatings[™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. Maximum 	1.	Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. Maximum	1. 2.	Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq. GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] Mineral Surfaced Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
	1. 2. 3.	Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq. GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] Mineral Surfaced Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating

Design Pressure:



Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(3):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently fully adhered to insulation.
All General and Syst	tem Limitations shall apply.
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1-5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1-5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. <i>(Maximum Design Pressure –52.5 psf, See General Limitation #7)</i>
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. <i>(Maximum Design Pressure -52.5 psf, See General Limitation #7)</i>
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -67.5 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. (Maximum Design Pressure -75 psf, See General Limitation #7)



One or more of a	any of the following.		
Base Insulation	Layer	Insulation Fasteners	Fastener
Enorgy Cuard TM	Polyiso Insulation EnormyCuard [™] Tonory	(1 able 3) ad Polyiso Insulation	Density/ft ²
EnergyGuard [™]	Ultra Polviso Insulation, EnergyGuard [™] R	RH Polviso Insulation,	
EnergyGuard [™]	RH Tapered Polyiso Insulation		
Minimum 1" thi	ck	N/A	N/A
Top Insulation I	Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Minimum ¾" th	Perlite Roof Insulation ick	N/A	N/A
Structodek [®] Hig Minimum ½" th	h Density Fiber Board Roof Insulation ick	N/A	N/A
SECUROCK [®] G	Sypsum-Fiber Roof Board, DensDeck [®] Pri	ime	
Minimum ¹ / ₄ " th	ick	N/A	N/A
Note: All insula range and at a rainsulation attack	tion shall be adhered in a full mopping of ate of 20-40 lbs./100 ft ² . Please refer to Roment.	approved hot asphalt with oofing Application Standar	in the EVT d RAS 117 for
Base Sheet:	Install one ply of GAFGLAS [®] #75 Bas Adhered with any approved mopping a a rate of 20-40 lbs./sq. (See General L i	e Sheet or Tri-Ply [®] #75 Base sphalt applied within the EV imitation #4).	e Sheet. T range and at
Ply Sheet:	Ruberoid [®] 20 Smooth adhered in a full within the EVT range and at a rate of 2	mopping of approved aspha 0-40 lbs./sq.	lt applied
Membrane:	Ruberoid [®] 30 Granule FR, Ruberoid [®] 3 Granule, Tri-Ply [®] SBS Granule Cap Sh Granule FR, Ruberoid [®] Mop Plus Gran Granule FR, Ruberoid [®] EnergyCap [™] 30 Surfaced Cap Sheet, Tri-Ply [®] BUR Gra EnergyCap [™] Mineral-Surfaced Cap Sh asphalt applied within the EVT range a	Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] 30 Granule FR, GAFGLAS [®] Mineral- Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.	
Surfacing:	Optional on granular surfaced memb Chosen components must be applied instructions. All coatings must be lis	branes; required for smoot according to manufactures ted within a current NOA.	h membranes. r's application
1.	Gravel or slag applied at 400 lbs./sq. ar approved asphalt at 60 lbs./sq.	nd 300 lbs./sq. respectively in	n a flood coat of
2.	TOPCOAT [®] Surface Seal SB or United applied in one or more coats at a minim OR	d Coatings [™] Surface Seal SB num rate of 1.0 gal./sq. per co	Roof Coating oat.
	TOPCOAT [®] MB Plus or United Coatir applied at a minimum rate of 1.0 gal./so TOPCOAT [®] Membrane or United Coa applied in one or more coats at a minim	ngs [™] Roof Mate MB Plus Co q.(to be used as a primer) fol tings [™] Roof Mate TCM Coa num rate of 1.0 gal./sq. per co	oating lowed by ting pat.
3.	Fiber Aluminum Roof Coating.		

MIAMI-DADE COUNTY APPROVED See Fastening Options

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Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(4):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently fully adhered to insulation.
All General and Syst Fire Barrier: (optional)	tem Limitations shall apply. FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1-5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1-5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. <i>(Maximum Design Pressure –52.5 psf, See General Limitation #7)</i>
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -67.5 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. (Maximum Design Pressure -75 psf, See General Limitation #7)



One or more of t	the any of the following insulations.	Insulation Fostoness	Eastanan
Base Insulation	Layer	(Table 3)	Fastener Density/ft ²
EnergyGuard [™] EnergyGuard [™] EnergyGuard [™]	Polyiso Insulation, EnergyGuard [™] Ultra Polyiso Insulation, EnergyGu RH Tapered Polyiso Insulation	Γapered Polyiso Insulation, ard [™] RH Polyiso Insulation,	
Minimum 1" thi	ck	N/A	N/A
Top Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard ^{**} Minimum ³ / ₄ " th	Perlite Roof Insulation ick	N/A	N/A
Structodek [®] Hig <i>Minimum ½" thi</i>	h Density Fiber Board <i>ck</i>	N/A	N/A
SECUROCK [®] G	ypsum-Fiber Roof Board, DensDec	ck [®] Prime	
Minimum ¹ / ₄ " th	ick tion shall be adhered in a full monu	N/A	N/A
range and at a rainsulation attach	ate of 20-40 lbs./100 ft ² . Please references	r to Roofing Application Standar	d RAS 117 for
Base Sheet:	Install one ply of GAFGLAS [®] # Adhered with any approved mop a rate of 20-40 lbs./sq. (See Gen	75 Base Sheet or Tri-Ply [®] #75 Base oping asphalt applied within the EV eral Limitation #4).	e Sheet. T range and at
Ply Sheet:	Ruberoid [®] Mop Smooth 1.5 or R approved asphalt applied within	Ruberoid [®] Mop Smooth 1.5 or Ruberoid [®] 20 Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.	
Membrane:	Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR or Ruberoid [®] EnergyCap [™] Mop Plus Granule FR adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.		
Surfacing:	Optional on granular surfaced Chosen components must be a instructions. All coatings must	membranes; required for smootl pplied according to manufacture t be listed within a current NOA.	h membranes. r's application
1.	Gravel or slag applied at 400 lbs approved asphalt at 60 lbs./sq.	./sq. and 300 lbs./sq. respectively in	n a flood coat of
2.	GAFGLAS [®] Mineral-Surfaced C GAFGLAS [®] EnergyCap [™] Miner of approved asphalt applied with	Cap Sheet, Tri-Ply [®] BUR Granule C cal-Surfaced Cap Sheet adhered in a nin the EVT range and at a rate of 2	Cap Sheet or full mopping 0-40 lbs./sq.
3.	TOPCOAT [®] Surface Seal SB or applied in one or more coats at a OR	United Coatings [™] Surface Seal SB minimum rate of 1.0 gal./sq. per co	Roof Coating oat.
	TOPCOAT [®] MB Plus or United applied at a minimum rate of 1.0 TOPCOAT [®] Membrane or Unite applied in one or more coats at a	Coatings [™] Roof Mate MB Plus Co) gal./sq.(to be used as a primer) foll ed Coatings [™] Roof Mate TCM Coat minimum rate of 1.0 gal./sq. per co	ating lowed by ting pat.
4.	Fiber Aluminum Roof Coating.		



Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(5):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently fully adhered to insulation.
All General and Syster Fire Barrier: (optional)	m Limitations shall apply. FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure –52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -67.5 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure -75 psf, See General Limitation #7)</i>



One or more of a Base Laver Insul	ny of the following insulations. ation	Insulation Fasteners	Fastener
		(Table 3)	Density/ft ²
EnergyGuard [™] P	Polyiso Insulation, EnergyGuard [™]]	Fapered Polyiso Insulation ,	
EnergyGuard U	Jitra Polyiso Insulation, EnergyGu	ard RH Polyiso Insulation,	
Minimum 1" thic	k	N/A	N/A
Top Layer Insula	ition	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] P Minimum ¾" thi	Perlite Roof Insulation ck	N/A	N/A
Structodek [®] High Minimum ½" thi	1 Density Fiber Board ck	N/A	N/A
SECUROCK [®] G	vpsum-Fiber Roof Board, DensDec	k® Prime	
Minimum ¹ / ₄ " thi	ck	N/A	N/A
Note: All insulat range and at a ra insulation attach	ion shall be adhered in a full mopp te of 20-40 lbs./100 ft ² . Please refer ment.	ing of approved hot asphalt with r to Roofing Application Standar	in the EVT d RAS 117 for
Base Sheet:	Install one or more plies of Ruberoid [®] 20 Smooth adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See General Limitation #4).		
Membrane:	Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] 30 Granule FR GAFGLAS [®] Mineral- Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.		
Surfacing:	Optional on granular surface membranes. Chosen compon manufacturer's application in current NOA.	ed membranes; required for smoo ents must be applied according to nstructions. All coatings must be	oth o e listed within a
1.	Gravel or slag applied at 400 ll of approved asphalt at 60 lbs./s	bs./sq. and 300 lbs./sq. respectively sq.	in a flood coat
2.	TOPCOAT [®] Surface Seal SB of Coating applied in one or more OR TOPCOAT [®] MB Plus or Unite applied at a minimum rate of 1 TOPCOAT [®] Membrane or Un	or United Coatings [™] Surface Seal S e coats at a minimum rate of 1.0 gal ed Coatings [™] Roof Mate MB Plus C .0 gal./sq.(to be used as a primer) f ited Coatings [™] Roof Mate TCM Co	SB Roof L/sq. per coat. Coating Collowed by Dating
	applied in one or more coats at	a minimum rate of 1.0 gal./sq. per	coat.
3.	Fiber Aluminum Roof Coating	ŗ.	

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See Fastening Options

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Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(6):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently fully adhered to insulation.
All General and Syster Fire Barrier: (optional)	m Limitations shall apply. FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -67.5 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure -75 psf, See General Limitation #7)</i>



One or more of an Base Layer Insula	ny of the following insulations. ation	Insulation Fasteners	Fastener
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] Tape		(Table 3) apered Polyiso Insulation,	Density/ft ²
EnergyGuard [™] U	Itra Polyiso Insulation, EnergyGua	rd [™] RH Polyiso Insulation,	
Minimum 1" thic	k	N/A	N/A
Top Layer Insulation		Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Perlite Roof Insulation Minimum ¾" thick		N/A	N/A
Structodek [®] High Minimum ½" thic	Density Fiber Board ek	N/A	N/A
SECUROCK [®] Gy	psum-Fiber Roof Board, DensDecl	k [®] Prime	
Minimum ¹ / ₄ " thic Note: All insulati	k on shall he adhered in a full monni	N/A ing of annroved hot asphalt withi	N/A in the FVT
range and at a rat	te of 20-40 lbs./100 ft ² . Please refer	to Roofing Application Standard	d RAS 117 for
insulation attachr Base Sheet:	nent. Install one or more plies of Rul approved mopping asphalt appl lbs./sq. (See General Limitation	peroid [®] Mop Smooth 1.5 adhered v lied within the EVT range and at a on #4).	vith any rate of 20-40
Membrane:	Ruberoid [®] Mop Granule, Tri-P Ruberoid [®] Mop Granule FR, R EnergyCap [™] Mop Plus Granule asphalt applied within the EVT	Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR or Ruberoid [®] EnergyCap [™] Mop Plus Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.	
Surfacing:	Optional on granular surface membranes. Chosen compone manufacturer's application in current NOA.	d membranes; required for smoo ents must be applied according to istructions. All coatings must be	oth o listed within a
1.	Gravel or slag applied at 400 lb of approved asphalt at 60 lbs./s	os./sq. and 300 lbs./sq. respectively q.	in a flood coat
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.		
3.	TOPCOAT [®] Surface Seal SB of Coating applied in one or more OR TOPCOAT [®] MB Plus or Unite applied at a minimum rate of 1. TOPCOAT [®] Membrane or Unite	or United Coatings [™] Surface Seal S coats at a minimum rate of 1.0 gal d Coatings [™] Roof Mate MB Plus C .0 gal./sq.(to be used as a primer) for ited Coatings [™] Roof Mate TCM Co	B Roof L/sq. per coat. Coating followed by pating
4.	Fiber Aluminum Roof Coating		

MIAMI-DADE COUNTY APPROVED

Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(7):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently fully adhered to insulation.
All General and Syster Fire Barrier: (optional)	m Limitations shall apply. FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -67.5 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure -75 psf, See General Limitation #7)</i>



One or more of any of	the following insulations.		
Base Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyis EnergyGuard [™] Ultra EnergyGuard [™] RH T	o Insulation, EnergyGuard [™] Tapered Polyiso Insulation, EnergyGuard [™] Rl apered Polviso Insulation	Polyiso Insulation, H Polyiso Insulation,	v
Minimum 1" thick		N/A	N/A
Top Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft ²
One of the following. EnergyGuard [™] Perlite Minimum ¾" thick	e Roof Insulation	N/A	N/A
Structodek [®] High Den Minimum ½" thick	sity Fiber Board	N/A	N/A
SECUROCK [®] Gypsul	n-Fiber Roof Board, DensDeck [®] Prin	ıe	
Minimum ¹ / ₄ " thick		N/A	N/A
Note: All insulation sl range and at a rate of insulation attachment	hall be adhered in a full mopping of a 20-40 lbs./100 ft ² . Please refer to Roo	pproved hot asphalt within fing Application Standard	n the EVT I RAS 117 for
Base Sheet:	Install one ply of GAFGLAS [®] #75 Bas Adhered with any approved mopping a at a rate of 20-40 lbs./sq. (See Genera	se Sheet or Tri-Ply [®] #75 Bas asphalt applied within the E ⁻ I Limitation #4).	se Sheet. VT range and
Membrane:	Ruberoid [®] 30 Granule FR, Ruberoid [®] EnergyCap [™] 30 Granule FR, Ruberoid [®] Cap Sheet, Intec Flex PRF, Ruberoid [®] Granule FR or Ruberoid [®] EnergyCap [™] mopping of approved asphalt applied v 40 lbs./sq.	R, Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] e FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule RF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus l [®] EnergyCap [™] Mop Plus Granule FR adhered in a full phalt applied within the EVT range and at a rate of 20-	
Surfacing:	Optional on granular surfaced mem membranes. Chosen components mu manufacturer's application instructi a current NOA.	branes; required for smoo 1st be applied according to 1ons. All coatings must be	oth) listed within
1.	Gravel or slag applied at 400 lbs./sq. a	nd 300 lbs./sq. respectively	in a flood coat
2.	of approved asphalt at 60 lbs./sq. GAFGLAS [®] Mineral Surfaced Cap Sh GAFGLAS [®] EnergyCap [™] Mineral-Sur mopping of approved asphalt applied v 40 lbs /sq	q. Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or eral-Surfaced Cap Sheet adhered in a full pplied within the EVT range and at a rate of 20-	
3.	TOPCOAT [®] Surface Seal SB or Unite Coating applied in one or more coats a OR	d Coatings [™] Surface Seal S t a minimum rate of 1.0 gal	B Roof ./sq. per coat.
	TOPCOAT [®] MB Plus or United Coati applied at a minimum rate of 1.0 gal./s TOPCOAT [®] Membrane or United Coa applied in one or more coats at a minim	ngs [™] Roof Mate MB Plus C q.(to be used as a primer) fo atings [™] Roof Mate TCM Co num rate of 1.0 gal./sq. per o	Coating ollowed by pating coat.
4.	Fiber Aluminum Roof Coating.	0	
Maximum Design			
Pressure:	See Fastening Options		

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Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(8):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently fully adhered to insulation.
All General and Syster Fire Barrier: (optional)	m Limitations shall apply. FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -67.5 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure -75 psf, See General Limitation #7)</i>



One or more of any of	the following insulations.		T (
Base Layer Insulation		Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyis EnergyGuard [™] Ultra I EnergyGuard [™] RH Ta	o Insulation, EnergyGuard [™] Tapered Polyiso Insulation, EnergyGuard [™] RH apered Polyiso Insulation	Polyiso Insulation, I Polyiso Insulation,	2010109710
Minimum 1" thick		N/A	N/A
Top Layer Insulation		Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Perlite Minimum ¾" thick	e Roof Insulation	N/A	N/A
Structodek [®] High Den Minimum ½" thick	sity Fiber Board	N/A	N/A
SECUROCK [®] Gypsur Minimum ¹ ⁄4" thick Note: All insulation sl range and at a rate of insulation attachment.	n-Fiber Roof Board, DensDeck [®] Prim nall be adhered in a full mopping of ap 20-40 lbs./100 ft ² . Please refer to Root	e N/A oproved hot asphalt withi fing Application Standard	N/A n the EVT i RAS 117 for
Base Sheet:	Two or more plies of GAFGLAS [®] Ply - GAFGLAS [®] FlexPly [™] 6 adhered with a within the EVT range and at a rate of 2 #4).	4, Tri-Ply [®] Ply 4 Ply Sheet any approved mopping asp 0-40 lbs./sq. (See General	or halt applied Limitation
Membrane:	Ruberoid [®] 30 Granule FR, Ruberoid [®] 3 Granule, Tri-Ply [®] SBS Granule Cap Sh Granule FR, Ruberoid [®] Mop Plus Gran Granule FR, Ruberoid [®] EnergyCap [™] 30 Surfaced Cap Sheet, Tri-Ply [®] BUR Gra EnergyCap [™] Mineral-Surfaced Cap Sh asphalt applied within the EVT range a	80 Plus Granule FR, Ruberd weet, Intec Flex PRF, Ruber nule FR, Ruberoid [®] Energy 0 Granule FR, GAFGLAS [®] anule Cap Sheet or GAFGL eet adhered in a full moppi and at a rate of 20-40 lbs./sc	oid [®] Mop 'oid [®] Mop Cap [™] Mop Plus [®] Mineral- .AS [®] ng of approved J.
Surfacing:	Optional on granular surfaced membres membranes. Chosen components mu manufacturer's application instruction a current NOA.	oranes; required for smoo st be applied according to ons. All coatings must be	oth o listed within
1.	Gravel or slag applied at 400 lbs./sq. an of approved asphalt at 60 lbs./sq.	nd 300 lbs./sq. respectively	in a flood coat
2.	TOPCOAT [®] Surface Seal SB or United Coating applied in one or more coats at OR TOPCOAT [®] MB Plus or United Coatin applied at a minimum rate of 1.0 gal./so TOPCOAT [®] Membrane or United Coat applied in one or more coats at a minim	l Coatings [™] Surface Seal S a minimum rate of 1.0 gal ngs [™] Roof Mate MB Plus C q.(to be used as a primer) fo tings [™] Roof Mate TCM Co num rate of 1.0 gal./sq. per	B Roof ./sq. per coat. Coating ollowed by pating coat.
3.	Fiber Aluminum Roof Coating.		
Maximum Design			

Pressure:

MIAMI-DADE COUNTY APPROVED See Fastening Options

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Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(9):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently fully adhered to insulation.
All General and Syster Fire Barrier: (optional)	m Limitations shall apply. FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -67.5 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure -75 psf, See General Limitation #7)</i>



Base Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Poly EnergyGuard [™] Ultra EnergyGuard [™] RH 7	iso Insulation, EnergyGuard [™] Tapero a Polyiso Insulation, EnergyGuard [™] I Fapered Polyiso Insulation	ed Polyiso Insulation, RH Polyiso Insulation,	
Minimum 1" thick		N/A	N/A
Top Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Perlite Roof Insulation Minimum ¾" thick		N/A	N/A
Structodek [®] High De Minimum ½" thick	ensity Fiber Board	N/A	N/A
SECUROCK [®] Gyps	um-Fiber Roof Board, DensDeck [®] Pri	ime	
Minimum ¹ / ₄ " thick		N/A	N/A
Note: All insulation range and at a rate o insulation attachmen	shall be adhered in a full mopping of f 20-40 lbs./100 ft ² . Please refer to Ro it.	approved hot asphalt with pofing Application Standar	in the EVT d RAS 117 for
Base Sheet:	Install one ply of Ruberoid [®] 20 Smoo asphalt applied within the EVT range Limitation #4).	oth adhered with any approve e and at a rate of 20-40 lbs./se	ed mopping q. (See General
Ply Sheet:	Ruberoid [®] Mop Smooth 1.5 adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.		
Membrane:	Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR or Ruberoid [®] EnergyCap [™] Mop Plus Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.		
Surfacing:	Optional on granular surfaced men membranes. Chosen components n manufacturer's application instruc a current NOA.	mbranes; required for smo nust be applied according t ctions. All coatings must be	oth o e listed within
1.	Gravel or slag applied at 400 lbs./sq. of approved asphalt at 60 lbs./sq.	and 300 lbs./sq. respectively	in a flood coat
2.	GAFGLAS [®] Mineral-Surfaced Cap S GAFGLAS [®] EnergyCap [™] Mineral-Su mopping of approved asphalt applied 40 lbs./sq.	LAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or LAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full ng of approved asphalt applied within the EVT range and at a rate of 20/sq.	
3.	TOPCOAT [®] Surface Seal SB or Unit Coating applied in one or more coats OR	ted Coatings [™] Surface Seal S at a minimum rate of 1.0 ga	SB Roof l./sq. per coat.
	TOPCOAT [®] MB Plus or United Coa applied at a minimum rate of 1.0 gal. TOPCOAT [®] Membrane or United Co applied in one or more coats at a min	tings [™] Roof Mate MB Plus (/sq.(to be used as a primer) f oatings [™] Roof Mate TCM Co imum rate of 1.0 gal./sq. per	Coating followed by pating coat.
4.	Fiber Aluminum Roof Coating.		

> MIAMI-DADE COUNTY APPROVED

See Fastening Options

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Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(10):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently partially adhered to insulation.
All General and System	m Limitations shall apply.
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure –52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. <i>(Maximum Design Pressure –52.5 psf, See General Limitation #7)</i>
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. <i>(Maximum Design Pressure -67.5 psf, See General Limitation #7)</i>
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure –82.5 psf, See General Limitation #7)</i>



One or more layers of any of the following insulations. **Insulation Layer**

Density/ft² (Table 3) EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] Tapered Polyiso Insulation, EnergyGuard[™] Ultra Polyiso Insulation, EnergyGuard[™] RH Polyiso Insulation, EnergyGuard[™] RH Tapered Polviso Insulation Minimum 1" thick N/A N/A Note: All insulation shall be adhered in a full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. GAFGLAS[®] Stratavent[®] Perforated Venting Base Sheet is loose laid over the **Base Sheet:** insulation with 2 in. side laps Ruberoid[®] 30 Granule FR, Ruberoid[®] 30 Plus Granule FR, Ruberoid[®] EnergyCap[™] Membrane: 30 Granule FR, Ruberoid[®] Mop Granule, Tri-Ply[®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid[®] Mop Granule FR, Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCap[™] Mop Plus Granule FR or Tri-Ply[®] SBS Granule Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA. 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq. GAFGLAS[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] BUR Granule Cap Sheet or 2. GAFGLAS[®] EnergyCap[™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. TOPCOAT[®] Surface Seal SB or United Coatings[™] Surface Seal SB Roof Coating 3. applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT[®] MB Plus or United Coatings[™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT[®] Membrane or United Coatings[™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. 4. Fiber Aluminum Roof Coating.

Insulation Fasteners

Fastener

Maximum Design Pressure:



Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(11):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently partially adhered to insulation.
All General and System	m Limitations shall apply.
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet, or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -67.5 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure –82.5 psf, See General Limitation #7)</i>



One or more layers of any of the following insulations.Insulation Fasteners
(Table 3)Fastener
Density/ft²Base Layer InsulationEnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation,
EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation,
EnergyGuard™ RH Tapered Polyiso Insulation
Minimum 1" thickN/AN/A

Note: All insulation shall be adhered in a full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet is loosely-laid over the insulation with 2 in. side laps
Ply Sheet:	Two or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet or GAFGLAS [®] FlexPly [™] 6 adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See General Limitation #4).
Membrane:	Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] 30 Granule FR, GAFGLAS [®] Mineral- Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
3.	Fiber Aluminum Roof Coating.
Maximum Design	

Pressure:



Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(12):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently partially adhered to insulation.
All General and System	m Limitations shall apply.
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. <i>(Maximum Design Pressure -67.5 psf, See General Limitation #7)</i>
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure –82.5 psf, See General Limitation #7)</i>



One or more layers of any of the following insulations. Insulation for Base Layer		Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyis EnergyGuard [™] Ultra EnergyGuard [™] RH T Minimum 1" thick Note: All insulation s range and at a rate of insulation attachment	so Insulation, EnergyGuard [™] Tape Polyiso Insulation, EnergyGuard [™] apered Polyiso Insulation hall be adhered in a full mopping of 20-40 lbs./100 ft ² . Please refer to H t.	red Polyiso Insulation, ' RH Polyiso Insulation, N/A of approved hot asphalt withi Roofing Application Standard	N/A in the EVT d RAS 117 for
Base Sheet:	GAFGLAS [®] Stratavent [®] Perforated insulation with 2 in. side laps	l Venting Base Sheet is loosel	y-laid over the
Ply Sheet:	Install one or more plies of Ruberon mopping asphalt applied within the (See General Limitation #4).	tall one or more plies of Ruberoid [®] 20 Smooth adhered with any approved pping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. ee General Limitation #4).	
Membrane:	Ruberoid [®] 30 Granule FR, Ruberoi Granule, Tri-Ply [®] SBS Granule Cap Granule FR, Ruberoid [®] Mop Plus O Plus Granule FR, Ruberoid [®] Energy Surfaced Cap Sheet, Tri-Ply [®] BUR EnergyCap [™] Mineral-Surfaced Cap asphalt applied within the EVT range	d [®] 30 Plus Granule FR, Ruber o Sheet, Intec Flex PRF Ruber Granule FR, Ruberoid [®] Energy yCap [™] 30 Granule FR, GAFG Granule Cap Sheet or GAFG o Sheet adhered in a full moppi ge and at a rate of 20-40 lbs./so	oid [®] Mop oid [®] Mop Cap [™] Mop LAS [®] Mineral- ∠AS [®] ing of approved q.
Surfacing:	Optional on granular surfaced m membranes. Chosen components manufacturer's application instru current NOA.	embranes; required for smoo must be applied according to actions. All coatings must be	oth D listed within a
1.	Gravel or slag applied at 400 lbs./so of approved asphalt at 60 lbs./sq.	q. and 300 lbs./sq. respectively	in a flood coat
2.	TOPCOAT [®] Surface Seal SB or Un Coating applied in one or more coa OR TOPCOAT [®] MB Plus or United Co applied at a minimum rate of 1.0 ga TOPCOAT [®] Membrane or United of applied in one or more coats at a minimum	nited Coatings [™] Surface Seal S ts at a minimum rate of 1.0 gal patings [™] Roof Mate MB Plus C Il./sq.(to be used as a primer) for Coatings [™] Roof Mate TCM Co inimum rate of 1.0 gal./sq. per	B Roof L/sq. per coat. Coating followed by pating coat.
3.	Fiber Aluminum Roof Coating.		
Maximum Design			

Pressure:



Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(13):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently partially adhered to insulation.
All General and System Fire Barrier: (optional)	Limitations shall apply. FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure –52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -67.5 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure –82.5 psf, See General Limitation #7)</i>



One or more layers of any of the following insulations.		
Insulation for Base Layer	Insulation Fasteners	Fastener
·	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] T	apered Polyiso Insulation,	
EnergyGuard [™] Ultra Polyiso Insulation, EnergyGua	rd [™] RH Polyiso Insulation,	
EnergyGuard [™] RH Tapered Polyiso Insulation		
Minimum 1" thick	N/A	N/A

Note: All insulation shall be adhered in a full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Maximum Design Pressure:	See Fastening Options	
3.	Fiber Aluminum Roof Coating.	
2.	 TOPCOAT[®] Surface Seal SB or United Coatings[™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT[®] MB Plus or United Coatings[™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq. (to be used as a primer) followed by TOPCOAT[®] Membrane or United Coatings[™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. 	
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.	
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.	
Membrane:	Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] Mop Plus Granule FR, GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral- Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.	
Ply Sheet:	Install one or more plies of Ruberoid [®] Mop Smooth 1.5 adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See General Limitation #4).	
Base Sheet:	GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet is loosely-laid over the insulation with 2 in. side laps	





Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type A(14):	All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently partially adhered to insulation.
All General and System Fire Barrier: (optional)	Limitations shall apply. FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet, VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -67.5 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure –82.5 psf, See General Limitation #7)</i>



One or more layers of any of the following insulations. **Insulation Layer**

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] Tapered	Polyiso Insulation,	
EnergyGuard [™] Ultra Polyiso Insulation, EnergyGuard [™] RI	H Polyiso Insulation,	
EnergyGuard [™] RH Tapered Polyiso Insulation		
Minimum 1" thick	N/A	N/A

Note: All insulation shall be adhered in a full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet is loosely-laid over the insulation with 2 in. side laps
Interply Sheet:	Install one ply of Ruberoid [®] 20 Smooth adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See General Limitation #4).
Ply Sheet:	Ruberoid [®] Mop Smooth 1.5 adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR or Ruberoid [®] EnergyCap [™] Mop Plus Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3.	 TOPCOAT[®] Surface Seal SB or United Coatings[™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT[®] MB Plus or United Coatings[™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT[®] Membrane or United Coatings[™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
4.	Fiber Aluminum Roof Coating.
Maximum Design	

Pressure:



Membrane Type:	SBS
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 19/32" or greater plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max
System Type B(1):	Base layer of insulation is mechanically attached to roof deck. Any subsequent layers are then adhered to base layer of insulation. Membrane is subsequently fully or partially adhered to insulation.

All General and System Limitations shall apply.

Fire Barrier:FireOut[™] Fire Barrier Coating, VersaShield[®] Fire-Resistant Roof Deck(optional)Protection, VersaShield[®] Solo[™] Fire-Resistant Slip Sheet, DensDeck[®] Roof
Board, SECUROCK[®] Gypsum-Fiber Roof Board or SECUROCK[®] Glass-Mat
Roof Board.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] RA Polyiso Insulation Minimum 2.0" thick	1, 2, 4, 5	1:3.2 ft ²
EnergyGuard [™] RN Polyiso Insulation Minimum 1.4" thick	1, 2, 4, 5	1:3 ft ²
EnergyGuard [™] Polyiso Insulation Minimum 1.5" thick	1, 2, 4, 5	1:2 ft ²
EnergyGuard [™] Perlite Roof Insulation Minimum ¾" thick	1, 2, 4, 5	1:2 ft ²
Structodek [®] High Density Fiber Board Minimum 1" thick	1, 2, 4, 5	1:2 ft ²

Note: Base layers of insulation shall be mechanically attached using the fastener density listed. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Protocol TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment. GAF requires either a ply of GAFGLAS[®] Stratavent[®] Perforated Venting Base Sheet laid dry or a layer of EnergyGuard[™] Perlite Roof Insulation or wood fiber overlay board on all polyisocyanurate applications.

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
Any of the insulation listed for Base Layer, above.		
Minimum thickness same as above	N/A	N/A
Structodek [®] High Density Fiber Board, EnergyGuard [™]	Perlite Recover Board	
Minimum ¹ / ₂ " thick	N/A	N/A



Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet:	(Optional) Install one ply of GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet, GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth or Ruberoid [®] 20 Smooth directly over the top layer of insulation. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.; (See General Limitation #4). OR GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet loose laid dry (not for use with wood fiber board or perlite top layer insulation).
Ply Sheet:	(Optional) One or more plies GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly ^{TM} 6 sheet or GAFGLAS [®] #80 Ultima ^{TM} Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	One or more plies of Ruberoid [®] 20 Smooth, Ruberoid [®] 30 Granule, Ruberoid [®] EnergyCap [™] 30 Granule FR, Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Plus Granule FR or Ruberoid [®] EnergyCap [™] Mop Plus Granule FR fully adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of
2.	Approved asphalt at 60 lbs./sq. GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs /sq.
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
4.	Fiber Aluminum Roof Coating.
Marimum Dagian	

Maximum Design Pressure: -45 psf. (See General Limitation #9)



Membrane Type:	APP/SBS Heat Weld
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 19/32" or greater plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type B(2):	Base layer of insulation is mechanically attached to roof deck. Any subsequent layers are then adhered to base layer of insulation. Membrane is subsequently fully or partially adhered to insulation.

All General and System Limitations shall apply.

Fire Barrier:FireOut[™] Fire Barrier Coating, VersaShield[®] Fire-Resistant Roof Deck Protection(optional)or Securock[®] Gypsum-Fiber Roof Board.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] RA Polyiso Insulation Minimum 2.0" thick	1, 2, 4, 5	1:3.2 ft ²
EnergyGuard [™] RN Polyiso Insulation Minimum 1.4" thick	1, 2, 4, 5	1:3 ft ²
EnergyGuard [™] Polyiso Insulation Minimum 1.5" thick	1, 2, 4, 5	1:2 ft ²
EnergyGuard [™] RA Composite Polyiso Insulation Minimum 1.5" thick	1, 2, 4, 5	1:3 ft ²
EnergyGuard [™] Perlite Roof Insulation Minimum ¾" thick	1, 2, 4, 5	1:2 ft ²
Structodek [®] High Density Fiber Board Minimum 1" thick	1, 2, 4, 5	1:2 ft ²

Note: Base layers of insulation shall be mechanically attached using the fastener density listed. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Protocol TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment. GAF requires either a ply of GAFGLAS[®] Stratavent[®] Perforated Venting Base Sheet laid dry or a layer of EnergyGuard[™] Perlite Roof Insulation or wood fiber overlay board on all polyisocyanurate applications.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Any of the insulation listed for Base Layer, above.		·
Minimum thickness same as above	N/A	N/A
Structodek [®] High Density Fiber Board, EnergyGuard [™]	Perlite Recover Board	
Minimum ¹ / ₂ " thick	N/A	N/A

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.



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Base Sheet:	Install one ply of GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet, GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, Ruberoid [®] Mop Smooth 1.5, Ruberoid Mop Plus Smooth, Ruberoid [®] 20 Smooth, Ruberoid [®] HW Smooth or Ruberoid [®] HW 25 Smooth directly over the top layer of insulation. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.; (See General Limitation #4). OR GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet loose laid dry (not for use with used fiber based on perlits top layer insulation)
Ply Sheet:	(Optional, required when using Ruberoid [®] 20 Smooth) One or more plies
·	GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6 sheet or GAFGLAS [®] #80 Ultima [™] Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	One ply of Ruberoid [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane, Ruberoid [®] Torch Granule, Ruberoid [®] Torch Plus Granule FR, Ruberoid [®] EnergyCap [™] Torch Granule FR torch applied according to manufacturer's application instructions. Or
	One or more plies of Ruberoid [®] HW Plus Granule, Ruberoid [®] HW Plus Granule FR, Ruberoid [®] HW Granule FR, Ruberoid [®] EnergyCap [™] HW Plus Granule FR, Ruberoid [®] HW Granule, Ruberoid [®] HW Smooth and Ruberoid [®] HW 25 Smooth applied according to manufacturer's application instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of
2.	Approved asphalt at 60 lbs./sq. GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs /sq.
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
	TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
4.	Fiber Aluminum Roof Coating.
Maximum Design	

Pressure:

-45 psf. (See General Limitation #9)



Membrane Type:	SBS		
Deck Type 1I:	Wood, Insulated		
Deck Description:	Min. 19/32" or greater plywood or shank nails to supports spaced 24 ir	Min. 19/32" or greater plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.	
System Type C(1):	All layer of insulation are mechanically attached to roof deck. Membrane is subsequently fully or partially adhered to insulation.		nbrane is
All General and Sys	stem Limitations shall apply.		
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Roof Deck Protection VersaShield [®] Solo [™] Fire-Resistant Slip Sheet, DensDeck [®] Roof Board, SECUROCK [®] Gypsum-Fiber Roof Board or SECUROCK [®] Glass-Mat Roof Board.		
Base Insulation Lay	/er	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] RA Minimum 1.3" thicl	Polyiso Insulation, EnergyGuard ^{***} k	RN Polyiso Insulation N/A	N/A
EnergyGuard [™] Poly Minimum 1.4" thicl	yiso Insulation k	N/A	N/A
EnergyGuard [™] RA Minimum 1.5" thicl	Composite Polyiso Insulation	N/A	N/A
EnergyGuard [™] Per Minimum ¾" thick	lite Roof Insulation	N/A	N/A
Note: All layers sha Insulation panels lis of fasteners shall be Application Standar	all be simultaneously fastened; see to sted are minimum sizes and dimensi increased maintaining the same fas rd RAS 117 for insulation attachme	op layer below for fasteners an ons; if larger panels are used, stener density. Please refer to nt.	nd density. the number Roofing
Top Insulation Lay	er	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] RA Minimum 2.0" thicl	Polyiso Insulation k	1, 2, 4, 5	1:3.2 ft ²
EnergyGuard [™] RN Minimum 1.4" thicl	Polyiso Insulation k	1, 2, 4, 5	1:3 ft ²
EnergyGuard [™] RA Minimum 1.5" thicl	Polyiso Insulation, EnergyGuard [™] k	Polyiso Insulation 1, 2, 4, 5	1:2 ft ²
EnergyGuard [™] RA Minimum 1.5" thicl	Composite Polyiso Insulation	1, 2, 4, 5	1:3 ft ²
EnergyGuard [™] Per Minimum ¾" thick	lite Roof Insulation	1, 2, 4, 5	1:2 ft ²
Structodek [®] High D Minimum 1" thick	ensity Fiber Board	1, 2, 4, 5	1:2 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. GAF requires either a ply of GAFGLAS[®] Stratavent[®] Perforated Venting Base Sheet laid dry or a layer of EnergyGuard[™] Perlite Roof Insulation or wood fiber overlay board on all polyisocyanurate applications.

Base Sheet:	Install one ply of GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth or Ruberoid [®] 20 Smooth directly over the top layer of insulation. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. If base sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval the use of an overlay board is approved; (See General Limitation #4). OR
	GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet loose laid dry (not for use with wood fiber board or perlite top layer insulation).
Ply Sheet:	(Optional) One or more plies GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6 or GAFGLAS [®] #80 Ultima [™] Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	One or more plies of Ruberoid [®] 20 Smooth, Ruberoid [®] 30 Granule, Ruberoid [®] EnergyCap [™] 30 Granule FR, Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Granule, Ruberoid [®] Mop Plus Granule FR fully adhered in an approved asphalt at an application rate of 20-40 lbs./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs/sq
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating
4.	applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. Fiber Aluminum Roof Coating.

Maximum Design Pressure:

-45 psf. (See General Limitation #9)



Membrane Type:	APP/SBS Heat Weld
Deck Type 1I:	Wood, Insulated
Deck Description:	Min. 19/32" or greater plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type C(2):	All layer of insulation are mechanically attached to roof deck. Membrane is subsequently fully or partially adhered to insulation.

All General and System Limitations shall apply.

Fire Barrier:	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Roof Deck Protection,
(optional)	VersaShield [®] Solo [™] Fire-Resistant Slip Sheet, DensDeck [®] Roof Board, or
	SECUROCK [®] Gypsum-Fiber Roof Board, or SECUROCK [®] Glass-Mat Roof Board.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RA	A Polyiso Insulation,	5
EnergyGuard [™] RN Polyiso Insulation	e y	
Minimum 1.3" thick	N/A	N/A
EnergyGuard [™] Polyiso Insulation		
Minimum 1.4" thick	N/A	N/A
EnergyGuard [™] RA Composite Polviso Insulation		
Minimum 1.5" thick	N/A	N/A
EnergyGuard [™] Perlite Roof Insulation. EnergyGuard	[™] Perlite Recover Board	
Minimum ³ / ₄ " thick	N/A	N/A

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

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] RA Polyiso Insulation		·
Minimum 2.0" thick	1, 2, 4, 5	1:3.2 ft ²
EnergyGuard [™] RN Polyiso Insulation		
Minimum 1.4" thick	1, 2, 4, 5	1:3 ft ²
EnergyGuard[™] Polyiso Insulation		
Minimum 1.5" thick	1, 2, 4, 5	1:2 ft ²
EnergyGuard [™] RA Composite Polyiso Insulation		
Minimum 1.5" thick	1, 2, 4, 5	1:3 ft ²
EnergyGuard [™] Perlite Roof Insulation		
Minimum ³ / ₄ " thick	1, 2, 4, 5	1:2 ft ²
Structodek [®] High Density Fiber		
Minimum 1" thick	1, 2, 4, 5	1:2 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. GAF requires either a ply of GAFGLAS[®] Stratavent[®] Perforated Venting Base Sheet laid dry or a layer of EnergyGuard[™] Perlite Roof Insulation or wood fiber overlay board on all polyisocyanurate applications.

Base Sheet:	Install one ply of GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet, GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth or Ruberoid [®] 20 Smooth directly over the top layer of insulation. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. If base sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval the use of an overlay board is approved; (See General Limitation #4). OR
	GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet loose laid dry (not for use with wood fiber board or perlite top layer insulation).
Ply Sheet:	(Optional, required when using Ruberoid [®] 20 Smooth) One or more plies GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6 or GAFGLAS [®] #80 Ultima [™] Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	One ply of Ruberoid [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane, Ruberoid [®] Torch Granule, Ruberoid [®] Torch Plus Granule FR, Ruberoid [®] EnergyCap [™] Torch Granule FR torch applied according to manufacturer's application instructions. Or
	One or more plies of Ruberoid [®] HW Plus Granule, Ruberoid [®] HW Plus Granule FR, Ruberoid [®] HW Granule FR, Ruberoid [®] EnergyCap [™] HW Plus Granule FR, Ruberoid [®] HW Granule, Ruberoid [®] HW Smooth and Ruberoid [®] HW 25 Smooth applied according to manufacturer's application instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
4.	Fiber Aluminum Roof Coating.
Maximum Design Pressure:	-45 nsf. (See General Limitation #9)



Membrane Type:	SBS/SBS Cold Applied		
Deck Type 1I:	Wood, Insulated		
Deck Description:	Min. 19/32" or greater plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.		
System Type D(1):	All insulation is loose laid with preliminary attachment to roof deck. Anchor sheet is subsequently mechanically fastened through insulation to the roof deck.		
All General and Syst	em Limitations shall apply.		
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Roof Deck Protection, VersaShield [®] Solo [™] Fire-Resistant Slip Sheet, DensDeck [®] Roof Board, SECUROCK [®] Gypsum-Fiber Roof Board or SECUROCK [®] Glass-Mat Roof Board.		
One or more layers of Insulation Layer	any of the following insulations.	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Poly Structodek [®] High De Minimum 1" thick	iso Insulation, EnergyGuard [™] RA Polyis ensity Fiber Board	so Insulation, N/A	N/A
Base Sheet:	Install one ply of GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet, GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet or Ruberoid [®] 20 Smooth applied over the loose laid insulation with 2 [™] side laps mechanically fastened to deck as described below;		Sheet, ilable Venting alation with 2"
Fastening Option #1:	Drill-Tec [™] #12 Fastener or Drill-Tec [™] #14 Fastener and Drill-Tec [™] 3" Steel Plate Drill-Tec [™] AccuTrac [®] Flat Plate or Drill-Tec [™] AccuTrac [®] Recessed Plate installed through the base sheet and insulation in 3 rows 12" o.c. One row is in the 2" side lap. The other rows are equally spaced approximately 12.5" o.c. in the field of the sheet.		3" Steel Plate, d Plate ne row is in 2.5" o.c. in the
Fastening Option #2:	Drill-Tec TM #12 Fastener or Drill-Tec TM #14 Fastener and Drill-Tec TM 3" Steel Plates in 4 rows 12" o.c. One row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c. in the field of the sheet.		
Fastening Option #3:	Drill-Tec [™] #12 Fastener or Drill-Tec [™] #14 Fastener and Drill-Tec [™] 3" Steel Plate, Drill-Tec [™] AccuTrac [®] Flat Plate or Drill-Tec [™] AccuTrac [®] Recessed Plate installed through the base sheet and insulation in 4 rows 8" o.c. One row is in the 2" side lap. The other 3 rows are equally spaced approximately 9" o.c. in the field of the sheet.		
Ply Sheet:	(Optional) One or more plies GAFGLAS [®] GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #80 Smooth 1.5, Ruberoid [®] Mop Plus Smooth full mopping of approved asphalt applied 40 lbs./sq.	⁹ Ply 4, Tri-Ply [®] Ply 4 Ply 3 0 Ultima [™] Base Sheet, Rub or Ruberoid [®] 20 Smooth a within the EVT range and	Sheet, peroid [®] Mop adhered in a at a rate of 20-



Membrane:	One or more plies of Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] 20 Smooth, Ruberoid [®] 30 Granule, Ruberoid [®] EnergyCap [™] 30 Granule FR, Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR or Ruberoid [®] Mop Plus Granule FR in adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. Or One or more plies of Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR Ruberoid [®] 20 Smooth, Ruberoid [®] 30 Granule, Ruberoid [®] EnergyCap [™] 30 Granule FR, Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR or Ruberoid [®] Mop Plus Granule FR adhered in Matrix [™] 102 SBS Membrane Adhesive at an application rate of 1-2 gal./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs /sq.
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs /sq
3. 4.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. Fiber Aluminum Roof Coating.
Maximum Design Pressure:	–45 psf. (See General Limitation #9)



Membrane Type:	APP/SBS Heat Weld		
Deck Type 1I:	Wood, Insulated		
Deck Description:	Min. 19/32" or greater plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.		
System Type D(2):	All insulation is loose laid with prelim sheet is subsequently mechanically fas	inary attachment to roof deck tened through insulation to th	a. Anchor ne roof deck.
All General and Syst	em Limitations shall apply.		
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Roof Deck Protection, VersaShield [®] Solo [™] Fire-Resistant Slip Sheet, DensDeck [®] Roof Board, SECUROCK [®] Gypsum-Fiber Roof Board or SECUROCK [®] Glass-Mat Roof Board.		
One or more layers of	any of the following insulations.		_
Insulation Layer		Insulation Fasteners (Table 3)	Fastener Densitv/ft ²
EnergyGuard [™] Polyi	iso Insulation, EnergyGuard [™] RA Poly	viso Insulation	J
Minimum 1.3" thick		N/A	N/A
Structodek [®] High De	ensity Fiber Board	NT / A	
Minimum 1" thick		N/A	N/A
Base Sheet:	Install one ply of GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet, GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet or Ruberoid [®] 20 Smooth base sheet applied over the loose laid insulation with 2" side laps mechanically fastened to deck as described below;		
Fastening Option #1:	Drill-Tec TM #12 Fastener or Drill-Tec TM #14 Fastener or and Drill-Tec TM 3" Steel Plate, Drill-Tec TM AccuTrac [®] Flat Plate or Drill-Tec TM AccuTrac [®] Recessed Plate installed through the base sheet and insulation in 3 rows 12" o.c. One row is in the 2" side lap. The other rows are equally spaced approximately 12.5" o.c. in the field of the sheet.		
Fastening Option #2:	Drill-Tec TM #12 Fastener or Drill-Tec TM #14 Fastener or and Drill-Tec TM 3" Steel Plate, Drill-Tec TM AccuTrac [®] Flat Plate or Drill-Tec TM AccuTrac [®] Recessed Plate installed in 4 rows 12" o.c. One row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c. in the field of the sheet.		
Fastening Option #3:	Drill-Tec TM #12 Fastener or Drill-Tec TM #14 Fastener or and Drill-Tec TM 3" Steel Plate installed through the base sheet and insulation in 4 rows 8" o.c. One row is in the 2" side lap. The other 3 rows are equally spaced approximately 9" o.c. in the field of the sheet.		
Ply Sheet:	(Optional) One or more plies GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6 sheet or GAFGLAS [®] #80 Ultima [™] Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.		

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Membrane:	One ply of Ruberoid [®] Torch Smooth, Tri-Ply [®] APP Smooth, Ruberoid [®] Torch Granule, Ruberoid [®] Torch Plus Granule FR, Tri-Ply [®] APP Granule, Ruberoid [®] EnergyCap [™] Torch Granule FR torch applied according to manufacturer's application instructions. Or One or more plies of Ruberoid [®] HW Plus Granule, Ruberoid [®] HW Plus Granule
	FR, Ruberoid [®] HW Granule FR, Ruberoid [®] EnergyCap ^{IM} HW Plus Granule FR, Ruberoid [®] HW Granule, Ruberoid [®] HW Smooth and Ruberoid [®] HW 25 Smooth applied according to manufacturer's application instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
4.	Fiber Aluminum Roof Coating.
Maximum Design	

-45 psf. (See General Limitation #9)



Membrane Type:	SBS/SBS Cold Applied
Deck Type 1:	Wood, Non-insulated
Deck Description:	Min. 19/32" or greater plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type E(1):	Anchor sheet is mechanically attached to roof deck. (Non-insulated systems)
All General and Syst	tem Limitations shall apply.
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Roof Deck Protection, VersaShield [®] Solo [™] Fire-Resistant Slip Sheet, DensDeck [®] Roof Board, SECUROCK [®] Gypsum-Fiber Roof Board, or SECUROCK Glass-Mat Roof Board.
Base sheet:	GAFGLAS [®] #80 Ultima [™] Base Sheet, GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet, Ruberoid [®] 20 Smooth, Ruberoid [®] HW Smooth or Ruberoid [®] HW 25 Smooth base sheet mechanically fastened to deck as described below:
Fastening Option #1:	GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above base sheets attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the lap staggered and in two rows 18" o.c. in the field. <u>Not for use with DensDeck or SECUROCK Fire Barrier</u> (Maximum Design Pressure -45 psf. See General Limitation #9)
Fastening Option #2:	GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly TM 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above base sheets attached to deck with Drill-Tec TM #12 Fastener or Drill-Tec TM #14 Fastener and Drill-Tec TM 3" Steel Plate, Drill-Tec TM AccuTrac [®] Flat Plate or Drill-Tec TM AccuTrac [®] Recessed Plate installed 12" o.c. in 3 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 12" o.c. in the field of the sheet. (Maximum Design Pressure -45 psf. See General Limitation #9)
Fastening Option #3:	GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above base sheets attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the 4" lap staggered and in two rows 9" o.c. in the field. <u>Not for use with DensDeck or SECUROCK Fire Barrier</u> (Maximum Design Pressure -52.5 psf. See General Limitation #7)
Fastening Option #4:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above base sheets attached to deck with Drill-Tec TM #12 Fastener or Drill-Tec TM #14 Fastener and Drill- Tec TM 3" Steel Plate, Drill-Tec TM AccuTrac [®] Flat Plate or Drill-Tec TM AccuTrac [®] Recessed Plate installed 12" o.c. in 4 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c. in the field of the sheet. (Maximum Design Pressure -45 psf. See General Limitation #9)
Fastening Option #5:	GAFGLAS [®] #80 Ultima TM Base Sheet, Ruberoid [®] 20 Smooth base sheet attached to deck approved annular ring shank nails and 3" inverted Drill-Tec TM 3" Steel Plate at a fastener spacing of 9" o.c. at the 4" lap staggered in two rows 9" in the field. Not for use with DensDeck or SECUROCK Fire Barrier (Maximum Design Pressure -60 psf. See General Limitation #7)

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Fastening Option #6:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above base sheets attached to deck with Drill-Tec TM #12 Fastener or Drill-Tec TM #14 Fastener and Drill- Tec TM 3" Steel Plate, Drill-Tec TM AccuTrac [®] Flat Plate or Drill-Tec TM AccuTrac [®] Recessed Plate installed 8" o.c. in 4 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c. in the field of the sheet. (Maximum Design Pressure -75 psf. See General Limitation #7)
Ply Sheet:	(Optional) One or more plies GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #80 Ultima [™] Base Sheet, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth or Ruberoid [®] 20 Smooth sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20- 40 lbs./sq.
Membrane:	One or more plies of Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] 20 Smooth, Ruberoid [®] 30 Granule, Ruberoid [®] EnergyCap [™] 30 Granule FR, Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR, or Ruberoid [®] Mop Plus Granule FR in adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. Or One or more plies of Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] 20 Smooth, Ruberoid [®] 30 Granule, Ruberoid [®] EnergyCap [™] 30 Granule FR, Ruberoid [®] 30 Granule, Ruberoid [®] EnergyCap [™] 30 Granule FR, Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR, or Ruberoid [®] Mop Plus Granule FR adhered in Matrix [™] 102 SBS Membrane Adhesive at an application rate of 1-2 gal./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping
3.	of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq. (to be used as a primer) followed by
	TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
4.	Fiber Aluminum Roof Coating.
Maximum Design	

Pressure:



Membrane Type:	APP/SBS Heat Weld
Deck Type 1:	Wood, Non-insulated
Deck Description:	Min. 19/32" or greater plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type E(2):	Anchor sheet is mechanically attached to roof deck. (Non-insulated systems)
All General and Syste	em Limitations shall apply.
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Roof Deck Protection, VersaShield [®] Solo [™] Fire-Resistant Slip Sheet, DensDeck [®] Roof Board, SECUROCK [®] Gypsum-Fiber Roof Board or SECUROCK [®] Glass-Mat Roof Board.
Base sheet:	GAFGLAS [®] #80 Ultima [™] Base Sheet, GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] 20 Smooth, Ruberoid [®] HW Smooth or Ruberoid [®] HW 25 Smooth mechanically fastened to deck as described below;
Fastening Option #1:	GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above base sheets attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the lap staggered and in two rows 18" o.c. in the field. <u>Not for use with DensDeck or SECUROCK Fire Barrier</u>
	(Maximum Design Pressure –45 psf. See General Limitation #9)
Fastening Option #2:	GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above base sheets attached to deck with Drill-Tec [™] #12 Fastener or Drill-Tec [™] #14 Fastener and Drill-Tec [™] 3" Steel Plate, Drill-Tec [™] AccuTrac [®] Flat Plate or Drill-Tec [™] AccuTrac [®] Recessed Plate installed 12" o.c. in 3 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 12.5" o.c. in the field of the sheet.
	(Maximum Design Pressure –45 psf. See General Limitation #9)
Fastening Option #3:	GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above base sheets attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the 4" lap staggered and in two rows 9" o.c. in the field. Not for use with DensDeck or SECUROCK Fire Barrier (Maximum Dasian Pressure, 52 5 nsf. See General Limitation #7)
	(Maximum Design Pressure – 52.5 psj. See General Limuation #7)
Fastening Option #4:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above base sheets attached to deck with Drill-Tec [™] #12 Fastener or Drill-Tec [™] #14 Fastener and Drill-Tec [™] 3" Steel Plate, Drill-Tec [™] AccuTrac [®] Flat Plate or Drill-Tec [™] AccuTrac [®] Recessed Plate installed 12" o.c. in 4 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c. in the field of the sheet.
	(maximum Design Pressure –45 psj. See General Limitation #9)



Fastening Option #5:	GAFGLAS [®] #80 Ultima [™] Base Sheet, Ruberoid [®] 20 Smooth, base sheet attached to deck approved annular ring shank nails and 3" inverted Drill-Tec [™] 3" Steel Plate at a fastener spacing of 9" o.c. at the 4" lap staggered in two rows 9" in the field.
	<u>Not for use with DensDeck or SECUROCK Fire Barrier</u> (Maximum Design Pressure –60 psf. See General Limitation #7)
Fastening Option #6:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or any of above base sheets attached to deck with Drill-Tec [™] #12 Fastener, Drill-Tec [™] #14 Fastener or Drill-Tec [™] XHD Fastener and Drill-Tec [™] 3" Steel Plate, Drill-Tec [™] AccuTrac [®] Flat Plate or Drill-Tec [™] AccuTrac [®] Recessed Plate installed 8" o.c. in 4 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 9" o.c. in the field of the sheet. (Maximum Design Pressure -45 psf. See General Limitation #9)
Ply Sheet:	(Optional except over Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] 20 Smooth, Ruberoid [®] HW Smooth or Ruberoid [®] HW 25 Smooth) One or more plies GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4, or GAFGLAS [®] FlexPly [™] 6 sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Ruberoid [®] Torch Smooth torch applied according to manufacturer's application instructions.
Membrane:	One ply of Ruberoid [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane, Ruberoid [®] Torch Granule, Ruberoid [®] Torch Plus Granule FR, Ruberoid [®] EnergyCap [™] Torch Granule FR torch applied according to manufacturer's application instructions. Or
	FR, Ruberoid [®] HW Granule FR, Ruberoid [®] EnergyCap [™] HW Plus Granule FR, Ruberoid [®] HW Granule, Ruberoid [®] HW Smooth and Ruberoid [®] HW 25 Smooth applied according to manufacturer's application instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs/sq
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by
4	TOPCOAT [®] Membrane or United Coatings [®] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. Fiber Aluminum Roof Coating
 Maximum Dasian	



Membrane Type:	SBS
Deck Type 1I:	Wood, Non-Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type E(3):	Anchor sheet is mechanically attached to roof deck. (Non-insulated systems)
All General and Syster Fire Barrier: (optional)	n Limitations shall apply. FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure –52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. <i>(Maximum Design Pressure –52.5 psf, See General Limitation #7)</i>
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -60 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure –97.5 psf, See General Limitation #7)</i>
Membrane:	Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] Mop Plus Granule FR or Ruberoid [®] EnergyCap [™] 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20- 40 lbs./sq.



Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
4.	Fiber Aluminum Roof Coating.
Maximum Design	

Pressure:



Membrane Type:	SBS
Deck Type 1I:	Wood, Non-Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type E(4):	Anchor sheet is mechanically attached to roof deck. (Non-insulated systems)
All General and Syst Fire Barrier: (optional)	tem Limitations shall apply. FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1-5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1-5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. <i>(Maximum Design Pressure –52.5 psf, See General Limitation #7)</i>
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -60 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. (Maximum Design Pressure -97.5 psf, See General Limitation #7)
Base Sheet:	Two or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet or GAFGLAS [®] FlexPly ^{M} 6 adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See General Limitation #4).



Membrane:	Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] 30 Granule FR, GAFGLAS [®] Mineral- Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet fully adhered in an approved asphalt at an application rate of 20-40 lbs./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq. (to be used as a primer) followed by
3.	TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. Fiber Aluminum Roof Coating.



Membrane Type:	SBS
Deck Type 1I:	Wood, Non-Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type E(5):	Anchor sheet is mechanically attached to roof deck. (Non-insulated systems)
All General and System	m Limitations shall apply.
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. <i>(Maximum Design Pressure –52.5 psf, See General Limitation #7)</i>
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -60 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure –97.5 psf, See General Limitation #7)</i>
Base Sheet:	Install one or more plies of Ruberoid [®] 20 Smooth adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See General Limitation #4).

Membrane:	Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] Mop Plus Granule FR or Ruberoid [®] EnergyCap [™] 30 Granule FR fully adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20- 40 lbs./sq. Or GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20- 40 lbs./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1. 2. 3.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq. TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq. (to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. Fiber Aluminum Roof Coating.
Maximum Design Pressure:	See Fastening Options



Membrane Type:	SBS
Deck Type 1I:	Wood, Non-Insulated
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type E(6):	Anchor sheet is mechanically attached to roof deck. (Non-insulated systems)
All General and System	n Limitations shall apply.
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure –52.5 psf, See General Limitation #7)
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. <i>(Maximum Design Pressure –52.5 psf, See General Limitation #7)</i>
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -60 psf, See General Limitation #7)
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure –97.5 psf, See General Limitation #7)</i>
Base Sheet:	Install one or more plies of Ruberoid [®] Mop Smooth 1.5 adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See General Limitation #4).
Membrane:	Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR or Ruberoid [®] EnergyCap [™] Mop Plus Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

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Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
4.	Fiber Aluminum Roof Coating.
Maximum Design	

Pressure: See Fastening Options



Membrane Type:	SBS	
Deck Type 1I:	Wood, Non-Insulated	
Deck Description:	Min. 15/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.	
System Type E(7):	Anchor sheet is mechanically attached to roof deck. (Non-insulated systems)	
All General and System Limitations shall apply.		
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Slip Sheet or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.	
Anchor sheet:	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, Ruberoid [®] 20 Smooth or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet is secured as described below.	
Fastening Option #1:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -45 psf, See General Limitation #7)	
Fastening Option #2:	Miami-Dade County Approved min. 12 ga. annular ring shank nails and min. 1- 5/8 in. diameter tin caps are spaced 6 in. o.c. in the min 4 in. wide anchor sheet side laps and 6 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure –52.5 psf, See General Limitation #7)	
Fastening Option #3:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 16 in. o.c. in the min. 4 in. wide anchor sheet side laps and 16 in. o.c. in the field of the sheet in two staggered rows. <i>(Maximum Design Pressure -52.5 psf, See General Limitation #7)</i>	
Fastening Option #4:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 12 in. o.c. in the min 4 in. wide anchor sheet side laps and 12 in. o.c. in the field of the sheet in two staggered rows. (Maximum Design Pressure -60 psf, See General Limitation #7)	
Fastening Option #5:	Drill-Tec TM #14 Fasteners and Drill-Tec TM 3 in. Standard Steel Plates, Drill-Tec TM AccuTrac [®] Flat Plates or Drill-Tec TM 3 in. Ribbed Galvalume Plate (Flat) are spaced 8 in. o.c. in the min. 4 in. wide anchor sheet side laps and 8 in. o.c. in the field of the sheet in three staggered rows. <i>(Maximum Design Pressure –97.5 psf, See General Limitation #7)</i>	
Base Sheet:	Install one ply of Ruberoid [®] 20 Smooth adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See General Limitation #4).	
Ply Sheet:	Ruberoid [®] Mop Smooth 1.5 adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.	



Membrane:	Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Granule FR, Ruberoid [®] Mop Plus Granule FR or Ruberoid [®] EnergyCap [™] Mop Plus Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.
4.	Fiber Aluminum Roof Coating.
Maximum Design	

Pressure:



Membrane Type:	SBS Cold Applied	
Deck Type 1I:	Wood, Non-Insulated	
Deck Description:	Min. 19/32" plywood or wood plank secured 6 in. o.c. with #8 wood screws to supports spaced 24 in. o.c. max.	
System Type E(8):	Anchor sheet is mechanically attached to roof deck. (Non-insulated systems)	
All General and System Limitations shall apply.		
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Roof Deck Protection or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.	
Base Sheet:	Install one ply of GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or GAFGLAS [®] Stratavent [®] Nailable Venting Base Sheet attached to deck with Drill-Tec [™] #12 Fasteners and Drill- Tec [™] 3" Steel Plate spaced 8 in. o.c. in the min. 2.0 in. wide side laps and 8 in. o.c in three equally spaced, staggered rows in the field of the sheet.	
Base Ply:	$GAFGLAS^{\textcircled{R}}$ FlexPly ^{im} 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions.	
Membrane:	One or more plies of Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid Mop Granule or Intec Flex PRF adhered in Matrix [™] 102 SBS Membrane Adhesive at an application rate of 1.5 gal./sq.	
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.	
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat	
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20.40 lbs/sa	
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq. (to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat.	
4.	Fiber Aluminum Roof Coating.	
Mavimum Dasian		

Maximum Design Pressure: -105 psf; (See General Limitation #7)



Membrane Type:	SBS
Deck Type 1I:	Wood, Non-Insulated
Deck Description:	Min. 19/32" thick plywood or wood plank secured 6 in. o.c. with 8d ring shank nails to supports spaced 24 in. o.c. max.
System Type E(9):	Anchor sheet is mechanically attached to roof deck. (Non-insulated systems)
All General and Syste	em Limitations shall apply.
Fire Barrier: (optional)	FireOut [™] Fire Barrier Coating, VersaShield [®] Fire-Resistant Roof Deck Protection or VersaShield [®] Solo [™] Fire-Resistant Slip Sheet.
Base Sheet:	Install one ply of GAFGLAS [®] #80 Ultima [™] Base Sheet attached to deck with 12 ga., 1-1/4" galvanized ring shank nails through 32 ga. 1-5/8" diameter tin tabs as stated below:
Fastening Option #1:	8 in. o.c. in the min. 4 in. wide side laps and 8 in. o.c in three staggered rows in the field of the sheet.
Fastaning Ontion #2.	O in a constant of the mine of the mine and O in a constant of the mine the
rastening Option #2:	field of the sheet. (Maximum Design Pressure -45 psf; See General Limitation #9)
Base Ply: (Optional)	GAFGLAS [®] FlexPly [™] 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with manufacturer's instructions.
Membrane:	One or more plies of Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Plus Granule FR, Ruberoid [®] EnergyCap [™] Mop Plus Granule FR, Ruberoid [®] Mop Granule FR, Ruberoid [®] 30 Granule FR, Ruberoid [®] 30 Plus Granule FR or Ruberoid [®] EnergyCap [™] 30 Granule FR in adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes.
	Chosen components must be applied according to manufacturer's application
	instructions. All coatings must be listed within a current NOA.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2.	GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet or GAFGLAS [®] EnergyCap [™] Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs/sq
3.	TOPCOAT [®] Surface Seal SB or United Coatings [™] Surface Seal SB Roof Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. OR
	TOPCOAT [®] MB Plus or United Coatings [™] Roof Mate MB Plus Coating applied at a minimum rate of 1.0 gal./sq.(to be used as a primer) followed by TOPCOAT [®] Membrane or United Coatings [™] Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal/sg, per cost
4.	Fiber Aluminum Roof Coating.
Maximum Design	
Pressure:	See Fastening Options



WOOD DECK SYSTEM LIMITATIONS:

- 1 A slip sheet is required with GAFGLAS[®] Ply 4 and GAFGLAS[®] FlexPly[™] 6 when used as a mechanically fastened base or anchor sheet.
- 2. Minimum ¹/₄" DensDeck[®] Roof Board or ¹/₂" Type X gypsum board is acceptable to be installed directly over the wood deck.

GENERAL LIMITATIONS:

- 1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered 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 to Roofing Application Standard RAS 111 and applicable wind load requirements.
- 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



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