

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

NOTICE OF ACCEPTANCE (NOA)

T (786)315-2590 F (786) 315-2599 www.miamidade.gov/economy

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 Concrete Decks.

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

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

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

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

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

This NOA renews and revises NOA No. 15-1020.03 and consists of pages 1 through 45. The submitted documentation was reviewed by Jorge L. Acebo.



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NOA No.: 18-0919.13 Expiration Date: 11/06/23 Approval Date: 11/01/18 Page 1 of 45

ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Modified Bitumen
Material:	APP/SBS
Deck Type:	Concrete
<u>Maximum Design Pressure:</u>	-495 psf.

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

	D	Test	Product
<u>Product</u>	Dimensions	Specification	Description
GAFGLAS [®] Ply 4	39.37"	ASTM D2178	Smooth surfaced asphaltic ply sheet
	(1 meter) Wide		reinforced with fiberglass mat.
Tri-Ply [®] Ply 4 Ply Sheet	39.37"	ASTM D2178	Smooth surfaced asphaltic ply sheet
	(1 meter) Wide		reinforced with a fiberglass mat.
GAFGLAS [®] FlexPly [™] 6	39.37"	ASTM D2178	Smooth surfaced asphaltic ply sheet
GAFGLAS [®] #75 Base Sheet	(1 meter) Wide 39.37"	ASTM D4601	reinforced with fiberglass mat.
GAFGLAS [*] #/5 Base Sheet	(1 meter) Wide	ASTM D4001	Smooth asphaltic base or base/ply sheet reinforced with fiberglass mat.
Tri-Ply [®] #75 Base Sheet	(1 meter) wide 39.37"	ASTM D4601	Smooth asphaltic base or base/ply sheet
III-I Iy #75 Dase Sheet	(1 meter) Wide	ASTM D4001	reinforced with a fiberglass mat.
GAFGLAS [®] #80 Ultima [™] Base	39.37"	ASTM D4601	Smooth asphaltic base or base/ply sheet
Sheet	(1 meter) Wide		reinforced with fiberglass mat.
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GAFGLAS [®] Stratavent [®]	39.37"	ASTM D4897	Smooth surfaced asphaltic perforated
Perforated Venting Base Sheet	(1 meter) Wide		venting base sheet reinforced with
	• • • •		fiberglass mat.
GAFGLAS [®] Stratavent [®] Nailable		ASTM D4897	Smooth surfaced asphaltic nailable
Venting Base Sheet	(1 meter) Wide		venting base sheet reinforced with
			fiberglass mat. Bottom side surfaced
GAFGLAS [®] Mineral-Surfaced	39.37"	ASTM D3909	with granules. Granule surfaced asphaltic cap sheet
Cap Sheet	(1 meter) Wide	ASTM D3909	reinforced with fiberglass mat.
Tri-Ply [®] BUR Granule Cap Sheet		ASTM D3909	Granule surfaced asphaltic cap sheet
manule cap sheet	(1 meter) Wide	101WI D5707	reinforced with a fiberglass mat.
GAFGLAS [®] EnergyCap [™]	39.37"	ASTM D3909	Granule surfaced asphaltic cap sheet
Mineral-Surfaced Cap Sheet	(1 meter) Wide		reinforced with fiberglass mat. Cap
	()		sheet is factory coated with
			EnergyCote [™] .
Ruberoid [®] HW 25 Smooth	39.37" (1	ASTM D6163	Smooth surfaced torch applied SBS
	meter)Wide		base or ply sheet reinforced with a
			fiberglass mat.
Ruberoid [®] HW Smooth	39.37" (1	ASTM D6164	Smooth surfaced torch applied SBS
	meter)Wide		base or ply sheet reinforced with a
			polyester mat.
Ruberoid [®] HW Granule	39.37" (1	ASTM D6164	Granule surfaced torch applied SBS cap
	meter) Wide		sheet reinforced with a polyester mat.



		Test	Product
Product	<u>Dimensions</u>	<u>Specification</u>	Description
Ruberoid [®] HW Granule FR	39.37" (1 meter)Wide	ASTM D6164	Fire retardant granule surfaced heat- welded SBS cap sheet reinforced with a polyester mat.
Ruberoid [®] HW Plus Granule	39.37" (1 meter)Wide	ASTM D6164	Granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.
Ruberoid [®] HW Plus Granule FR	39.37" (1 meter) Wide	ASTM D6164	Fire retardant granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.
Ruberoid [®] EnergyCap [™] HW Plus Granule FR	(1 meter) Wide	ASTM D6164	Fire retardant granule surfaced heat- welded SBS cap sheet reinforced with a polyester mat. Cap sheet is factory coated with EnergyCote [™] .
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.
Tri-Ply [®] APP Granule Cap Sheet	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 Plus 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 EnergyCote [™] .
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 EnergyCote [™] .
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.



Duo du of	Dimonsions	Test	Product
<u>Product</u>	Dimensions 39.37"	<u>Specification</u> ASTM D6164	Description
Tri-Ply [®] SBS Granule Cap Sheet	(1 meter) Wide	ASTM D0104	Granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Intec Flex PRF	39.37"	ASTM D6164	Granule surfaced mop applied SBS cap
Ruberoid [®] Mop Smooth	(1 meter) Wide 39.37" (1 meter) Wide	ASTM D6164	sheet reinforced with a polyester mat. Smooth surfaced mop applied SBS base or ply sheet reinforced with a polyester mat.
Ruberoid [®] Mop Smooth 1.5	39.37" (1 meter) Wide	ASTM D6164	Smooth surfaced mop applied SBS base or ply sheet reinforced with a polyester mat.
Ruberoid [®] Mop Plus Smooth	39.37" (1 meter) Wide	ASTM D6164	Smooth surfaced mop applied SBS base or ply sheet reinforced with a polyester mat.
Ruberoid [®] Mop Plus Granule	39.37" (1 meter) Wide	ASTM D6164	Granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
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.
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
Ruberoid [®] Mop Granule FR	39.37" (1 meter) Wide	ASTM D6164	coated with EnergyCote [™] . 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 EnergyCote [™] .
Matrix [™] 102 SBS Membrane Adhesive	3, 5 or 55 gallons	ASTM D3019	Fiber reinforced rubberized cold-applied adhesive for modified bitumen roof systems.
TOPCOAT [®] Membrane	1, 5 or 55 gallons	ASTM D6083	Water-based elastomeric coating
United Coatings [™] Roof Mate TCM Coating	5 or 55 gallons	ASTM D6083	Water-based elastomeric coating
TOPCOAT [®] MB Plus	5 or 55 gallons	Proprietary	Water based, low VOC primer designed 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.
TOPCOAT [®] Surface Seal SB	5 gallons	ASTM D6083	Solvent-based thermoplastic rubber sealant designed to protect and restore aged roof surfaces and to increase roof reflectivity.

		Test	Product
Product	Dimensions	Specification	Description
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.
Flex Seal [™]	5 or 55 gallons	TAS 139	Solvent-based elastomeric sealant.
Matrix [™] 307 Premium Asphalt Primer	3, 5, 55 gallons	ASTM D41	Asphalt concrete primer used to promote adhesion of all types of asphalt-based roofing materials.
Matrix [™] 201 Premium SBS Flashing Cement	11 oz. Tubes or 5 gallons	ASTM D4586 ASTM D3409	Cold applied flashing cement in SBS- modified bitumen asphalt roof systems.

APPROVED INSULATIONS:

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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 [™] RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF		
EnergyGuard [™] RA Composite Polyiso Insulation	Polyisocyanurate foam insulation with high density fiberboard or permalite	GAF		
EnergyGuard [™] Perlite Roof Insulation	Perlite insulation board.	GAF		
EnergyGuard [™] Perlite Recover Board	Perlite recover board	GAF		
DensDeck [®] Roof Board	Gypsum board.	Georgia-Pacific Gypsum LLC		
DensDeck [®] Prime [®] Roof Board	Gypsum board.	Georgia-Pacific Gypsum LLC		
Structodek [®] High Density Fiber Board Roof Insulation	High Density Fiber Board	Blue Ridge Fiber Board, Inc.		
SECUROCK [®] Gypsum-Fiber Roof Board	Gypsum board.	United States Gypsum Corp.		

APPROVED FASTENERS:

AIIKOV	ED FASTENERS.			
Fastener Number	Product Name	TABLE 3ProductDescription	Dimensions	Manufacturer (With Current NOA)
1	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
2	Drill-Tec [™] 3" Steel Plate	Round Galvalume [®] steel stress plate with reinforcing ribs and recessed for use with Drill- Tec [™] fasteners.	3" Round	GAF
3	Drill-Tec [™] 2 in. Barbed Plate	Round galvanized steel stress plates for use with Drill-Tec [™] fasteners.	2" Round	GAF
4	Drill-Tec [™] AccuTrac [®] Flat Plate	A2-SS aluminized steel plate for use with Drill- Tec [™] fasteners.	3" square; .017" thick	GAF
5	Drill-Tec [™] AccuTrac [®] Recessed Plate	Galvalume [®] steel plate with recess for use with Drill-Tec [™] fasteners.	3" square; .017" thick.	GAF

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
FM Approvals	FMRC 4470	0D0A8.AM	07/09/97
	FMRC 4470	2B8A4.AM	07/02/97
	FMRC 4470	3005640	11/09/00
	FMRC 4470	3006845	10/17/00
	FMRC 4470	3005175	05/23/00
	FMRC 4470	3005177	05/19/00
	FMRC 4470	3005640	11/09/00
	FMRC 4470	3007500	06/15/00
	FMRC 4470	3008178	12/27/00
	FMRC 4470	3010215	03/01/01
	FMRC 4470	3009788	03/28/01
	FMRC 4470	3011140	08/14/01
	FMRC 4470	3013788	01/10/03
	FMRC 4470	3017250	04/05/04
	FMRC 4470	3018578	09/14/04
	FMRC 4470	3028039	09/11/06
	FMRC 4470	3032811	12/11/08
	FMRC 4470	3042887	11/14/11
	FMRC 4470	3023458	07/18/06
	FMRC 4470	3036980	08/14/09



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Test Agency/Identifier	Name	<u>Report</u>	<u>Date</u>
FM Approvals	FMRC 4470	3042905	01/10/12
	FMRC 4470	3028039	09/11/06
	FMRC 4470	3035864	06/03/09
	FMRC 4470	3045348	05/30/12
	FMRC 4470	3046328	09/13/12
	FMRC 4470	3047104	08/29/13
	FMRC 4470	797-10228-267	01/15/15
	FMRC 4470	RR203450	12/04/15
	FMRC 4470	FM Letter	04/11/13
	FMRC 4470	FM Letter	09/15/15
	FMRC 4470	RR213219	03/14/18
Trinity ERD	ASTM D6862	C8500SC.11.07	11/30/07
	TAS 114	#01881.09.03-2	03/24/08
	TAS 114	#01881.11.03-2-R1	08/21/07
	TAS 114	#4483.04.97-1	06/06/97
	ASTM D6222	G30250.02.10-2	02/11/10
	ASTM D3909	G30250.02.10-3-R2	06/03/15
	ASTM D6164	G31360.03.10	03/31/10
	ASTM D6164	G33470.01.11	01/13/11
	ASTM D6163	G34140.04.11-2	04/25/11
	ASTM D4601	G34140.04.11-4-R2	06/04/15
	ASTM D4897 ASTM D6222	G34140.04.11-5-R3	06/04/15 07/17/12
	ASTM D6222 ASTM D6164	G40620.07.12-2 G40630.01.14-2A	01/07/14
	ASTM D0104 ASTM D6164	G40630.01.14-2A-1-R1	01/07/14 04/10/14
	ASTM D0104 ASTM D6164	G40630.01.14-2A-1-R1	01/16/15
	ASTM D0104 ASTM D6164	G40630.01.14-2C	01/07/14
	ASTM D0104 ASTM D6163	G40630.01-14-1	01/06/14
	ASTM D6164	G40630.03.14	03/06/14
	ASTM D6222	G43190.03.14-1	03/06/14
	ASTM D6222	G43190.03.14-2	03/06/14
	ASTM D6222	G43190.05.14-R1	05/20/14
	ASTM D6222	G43190.11.13-1	11/15/13
	ASTM D3909	G43610.01.14	01/22/14
	ASTM D6163	G46160.02.15	02/12/15
	ASTM D6163	G46160.02.15-2D-1	02/09/16
	ASTM D6163	G46160.03.15	03/11/15
	ASTM D6163	G46160.09.14-2A	09/09/14
	ASTM D6164	G46160.09.14-3A	09/09/14
	ASTM D6164	G46160.09.14-3B	09/09/14
	ASTM D6164	G46160.09.14-3C	09/09/14
	ASTM D6164	G46160.12.14-3E	12/29/14
	ASTM D6163	G6850.08.08	08/01/08
	ASTM D6222	G6850.10.08	10/06/08
	ASTM D6222	G6850.11.08	02/17/09

EVIDENCE SUBMITTED: (CONTINUED)

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EVIDENCE SUBMITTED: (CONTINUED)

Test Agency/Identifier	Name	Report	Date
Trinity ERD	ASTM D6164	G6850.08.08-R1	04/14/11
	ASTM D3909	SC6870.08.14-R1	09/04/14
UL LLC	UL 790	R1306	08/21/18
PRI Construction Materials	TAS 139	GAF-122-02-01	05/07/06
Technologies, LLC	ASTM D2178	GAF-314-02-01	08/23/11
	ASTM D2178	GAF-315-02-01	08/23/11
	ASTM C1289	GAF-369-02-01	10/22/12
	ASTM C1289	GAF-464-02-01	02/06/14
	ASTM D6083	GAF-498-02-01	09/16/16
	ASTM D6083	GAF-499-02-01	03/12/14
	ASTM D6083	GAF-500-02-01	03/12/14
Atlantic & Caribbean Roof	06-041	TAS 114-D	11/10/06
Consulting, LLC	11-051	TAS 114-D	08/11/11
	12-009	TAS 114-D	04/20/12



APPROVED ASSEMBLIES:

Membrane Type:	APP/SBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(1):	Insulation adhered with approved adhesive and membranes adhered to insulation.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

All General and System Limitations shall apply.

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

Dase insulation Layer	Insulation rasteners	rastener
	(Table 3)	Density/ft ²
EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RH	Polyiso Insulation	
Minimum. 1½" thick	N/A	N/A

Insulation Fastanars

Fastanar

Note: Base layer shall be adhered with OlyBond[®] at 1 gal./sq. full coverage, OlyBond 500[®] or OlyBond 500[®] Green in ³/₄" to 1" wide ribbons spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
DensDeck [®] Prime Roof Board, SECUROCK [®] Gypsu	m-Fiber Roof Board	
Minimum. ¼" thick	N/A	N/A

Note: Apply top layer of insulation with OlyBond[®] at 1 gal./sq. full coverage, OlyBond 500[®] or OlyBond 500[®] Green in ³/₄" to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as Base Layer only shall be used only as base layers with a second layer of approved Top Insulation Layer installed as the final membrane substrate.

Anchor Sheet: (Optional)	Two plies of GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or a single ply of GAFGLAS [®] #80 Ultima [™] Base Sheet, Ruberoid [®] 20 Smooth [®] , Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] HW 25 Smooth [™] , Ruberoid [®] HW Smooth [™] applied in hot asphalt full mop at 25 lbs./sq.
Base Sheet:	One or more plies of Ruberoid [®] HW 25 Smooth [™] or Ruberoid [®] HW Smooth [™] torch applied.
Ply Sheet: (Optional)	One or more plies of Ruberoid [®] HW 25 Smooth [™] or Ruberoid [®] HW Smooth [™] torch applied.



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Membrane:	One or more plies Ruberoid [®] HW 25 Smooth [™] , Ruberoid [®] HW Smooth [™] , Ruberoid [®] HW Granule [™] , Ruberoid [®] HW Granule FR [™] , Ruberoid [®] HW Plus Granule [™] , Ruberoid [®] HW Plus Granule FR [™] or Ruberoid [®] EnergyCap [™] HW Plus Granule FR [™] , applied in accordance with manufacturer's instructions. Or One or more plies of Ruberoid [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane, Ruberoid [®] Torch Granule, Tri-Ply [®] APP Granule Cap Sheet, Ruberoid [®] Torch Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Torch Granule FR or Ruberoid [®] EnergyCap [™] Torch Plus Granule FR [™] applied in accordance with manufacturer's 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. Maximum Design Pressure:	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. [®] -300 psf. (See General Limitation #9)



Membrane Type:	SBS, Cold Applied
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(2):	Insulation adhered with approved adhesive and membranes adhered to insulation.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RA EnergyGuard [™] RH Polyiso Insulation	Polyiso Insulation,	-
Minimum. 1½" thick	N/A	N/A

Note: Base layer shall be adhered with OlyBond[®] at 1 gal./sq. full coverage, OlyBond 500[®] or OlyBond 500[®] Green in ³/₄" to 1" wide ribbons spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
DensDeck [®] Prime Roof Board, SECUROCK [®] Gyps	um-Fiber Roof Board	
Minimum. ¹ / ₄ " thick	N/A	N/A

Note: Apply top layer of insulation with OlyBond[®] at 1 gal./sq. full coverage or OlyBond 500[®] or OlyBond 500[®] Green in ³/₄" to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as Base Layer only shall be used only as base layers with a second layer of approved Top Insulation Layer installed as the final membrane substrate.

Base Sheet: (Optional)	Two plies of GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or GAFGLAS [®] #80 Ultima [™] Base Sheet applied in hot asphalt full mop at 25 lbs./sq.
Ply Sheet: (Optional)	GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet applied in Matrix [™] 102 SBS Membrane Adhesive at 1.5 gal./sq.
Ply Sheet:	One or more Ruberoid [®] 20 Smooth [®] , Ruberoid Mop Smooth, Ruberoid [®] Mop Smooth 1.5, or Ruberoid [®] Mop Plus Smooth applied In Matrix [™] 102 SBS Membrane Adhesive at 1.5 gal./sq.



Membrane:	One or more plies Ruberoid [®] 30 Granule [®] , Ruberoid [®] 30 Granule FR [®] , Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Plus Granule [®] , Ruberoid [®] Mop Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Mop Plus Granule FR [™] , Ruberoid [®] Mop Granule FR [®] or Ruberoid [®] EnergyCap [™] 30 Granule FR [™] and applied in Matrix [™] 102 SBS Membrane Adhesive at a 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 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. Maximum Design	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. [®]
Pressure:	-137.5 psf. (See General Limitation #9)



Membrane Type:	APP/SBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(3):	Adhered Insulated Systems

The following assembly is approved to a maximum design pressure per Insulation Maximum Design Pressure Table A. No substitutions shall be made:

Deck Type: Concrete, primed with Matrix[™] 307 Premium Asphalt Primer.

All General and System Limitations shall apply.

Install one or more plies 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, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth or Ruberoid [®] 20 Smooth [®] mopped directly to the substrate. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
See Insulation Maximum Design Pressure Table A below. Design Pressure is dependent on Insulation assembly # used in this system.
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 [®] 20 Smooth [®] , Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5 or Ruberoid [®] Mop Plus Smooth mopped directly to the insulated substrate. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
One, two or three plies of Ruberoid [®] 20 Smooth [®] , GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet or 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.
One or more plies of Ruberoid [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane, Ruberoid [®] Torch Granule, Tri-Ply [®] APP Granule Cap Sheet, Ruberoid [®] Torch Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Torch Granule FR or Ruberoid [®] EnergyCap [™] Torch Plus Granule FR [™] applied in accordance with manufacturer's instructions. Or Ruberoid [®] 20 Smooth [®] , Ruberoid [®] 30 Granule [®] , Ruberoid [®] 30 Granule FR [®] , Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Plus Granule [®] , Ruberoid [®] Mop Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Mop Plus Granule FR [™] , Ruberoid [®] Mop Granule FR [®] or Ruberoid [®] EnergyCap [™] 30 Granule FR [™] applied in accordance with manufacturer's instructions. Or Ruberoid [®] HW 25 Smooth [™] , Ruberoid [®] HW Smooth [™] , Ruberoid [®] HW Granule [™] , Ruberoid [®] HW Granule FR [™] , Ruberoid [®] HW Plus Granule FR [®] or Ruberoid [®] HW Plus Granule FR [™] or Ruberoid [®] EnergyCap [™] HW Plus Granule FR [™] 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.
- 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.

Insulation Maximum Design Pressure Table A for Assembly A(3)

Insulation Assemblies

 Min. 1½" EnergyGuard[™] RA Composite Polyiso Insulation, EnergyGuard[™] Polyiso Insulation or EnergyGuard[™] RH Polyiso Insulation, EnergyGuard[™] RN Polyiso Insulation laid with the polyisocyanurate side down and bonded in a full mopping of an approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure –270 psf. (See General Limitation #9)

2. **Base Layer:** Min. 1" EnergyGuard[™] Polyiso Insulation or EnergyGuard[™] RH Polyiso Insulation, EnergyGuard[™] RN Polyiso Insulation mopped in asphalt at the rate of 20-40 lbs./sq.

Top Layer: Min. ½" EnergyGuard[™] Perlite Roof Insulation or EnergyGuard[™] Perlite Recover Board adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure –322.5 psf. (See General Limitation #9)

3. *Base Layer:* Min. 1" EnergyGuard[™] RA Polyiso Insulation mopped in asphalt at the rate of 20-40 lbs./sq.

Top Layer: Min. ½" Structodek[®] High Density Fiber Board Roof Insulation adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure –307.5 psf. (See General Limitation #9)

4. **Base Layer:** Min. 1" EnergyGuard[™] RA Polyiso Insulation mopped in asphalt at the rate of 20-40 lbs./sq.

Top Layer: Min. ½" EnergyGuard[™] Perlite Roof Insulation or EnergyGuard[™] Perlite Recover Board adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure –165 psf. (See General Limitation #9)



5. *Base Layer:* Two Min. 3/4" layers EnergyGuard[™] Perlite Roof Insulation or EnergyGuard[™] Perlite Recover Board adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Top Layer: Min. ¹/₄" DensDeck[®] Roof Board mopped in asphalt at the rate of 20-40 lbs./sq.

Maximum Design Pressure –172.5 psf. (See General Limitation #9)

6. **Base Layer:** Min. 1" EnergyGuard[™] RA Polyiso Insulation mopped in asphalt at the rate of 20-40 lbs./sq.

Top Layer: Min. ¹/₂" Structodek[®] High Density Fiber Board Roof Insulation adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure –237.5 psf. (See General Limitation #9)

7. Min. ½" Structodek[®] High Density Fiber Board Roof Insulation or min. 1" EnergyGuard[™] Perlite Roof Insulation or EnergyGuard[™] Perlite Recover Board adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure –140 psf. (See General Limitation #9)

8. *Base Layer*: Min. 2" EnergyGuard[™] Polyiso Insulation or EnergyGuard[™] RH Polyiso Insulation, EnergyGuard[™] RN Polyiso Insulation

Top Layer: Min. $\frac{1}{2}$ " EnergyGuardTM Perlite Roof Insulation or EnergyGuardTM Perlite Recover Board adhered in a full mopping of approved asphalt applied within the EVT range at a rate of 20-40 lbs./sq.

Maximum Design Pressure –322.5 psf. (See General Limitation #9)

9. Min. ³⁄₄" EnergyGuard[™] Perlite Roof Insulation or EnergyGuard[™] Perlite Recover Board adhered to the primed concrete deck in a full mopping of approved asphalt applied within the EVT range at a rate of 20-40 lbs./sq.

Maximum Design Pressure –137 psf. (See General Limitation #9)

10. *Base Layer:* Min. 1¼" EnergyGuard[™] Polyiso Insulation or EnergyGuard[™] RH Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation, EnergyGuard[™] RN Polyiso Insulation, [™]adhered to the concrete deck in a full mopping of approved asphalt applied within the EVT range at a rate of 20-40 lbs./sq.

Top Layer: Min. ¹/₂" Structodek[®] High Density Fiber Board Roof Insulation adhered to the base insulation layer in a full mopping of approved asphalt applied within the EVT range at a rate of 20-40 lbs./sq.

Maximum Design Pressure –162 psf. (See General Limitation #9)

11. **Base Layer**: Min. 1¼" EnergyGuard[™] Polyiso Insulation or EnergyGuard[™] RH Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation, EnergyGuard[™] RN Polyiso Insulation adhered to the concrete deck in a full mopping of approved asphalt applied within the EVT range at a rate of 20-40 lbs./sq.

Top Layer: Min. $\frac{3}{4}$ " EnergyGuardTM Perlite Roof Insulation or EnergyGuardTM Perlite Recover Board adhered to the base insulation layer in a full mopping of approved asphalt applied within the EVT range at a rate of 20-40 lbs./sq.

Maximum Design Pressure –157 psf. (See General Limitation #9)

12. Min. ½" EnergyGuard[™] Perlite Roof Board or EnergyGuard[™] Perlite Recover Board adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Maximum Design Pressure –90 psf. (See General Limitation #9)



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Membrane Type:	APP/SBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System type A(4):	Adhered insulated systems

The following assembly is approved to a maximum design pressure per Insulation Maximum Design Pressure Table B. No substitutions shall be made:

Deck Type: Concrete, primed with Matrix[™] 307 Premium Asphalt Primer.

All General and System Limitations shall apply.

Anchor Sheet: (Optional)	Install one or more plies 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 or Ruberoid [®] 20 Smooth [®] mopped directly to deck primed with Matrix [™] 307 Premium Asphalt Primer. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Insulations:	See Insulation Maximum Design Pressure Table B below. Design Pressure is dependent on Insulation assembly # used in this system.
Base Sheet:	Install one ply of GAFGLAS® Stratavent® Perforated Venting Base Sheet, lose laid dry
Ply Sheet: (Optional)	(Note, required if membrane is APP/SBS Heat-Weld TM or Mineral Surface Cap Sheets) One or more plies of Ruberoid [®] 20 Smooth [®] , GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet or GAFGLAS [®] FlexPly TM 6 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 [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane, Ruberoid [®] Torch Granule, Tri-Ply [®] APP Granule Cap Sheet [®] , Ruberoid [®] Torch Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Torch Granule FR or Ruberoid [®] EnergyCap [™] Torch Plus Granule FR [™] applied in accordance with manufacturer's instructions. Or
	Ruberoid [®] 20 Smooth [®] , Ruberoid [®] 30 Granule [®] , Ruberoid [®] 30 Granule FR [®] , Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Plus Granule [®] , Ruberoid [®] Mop Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Mop Plus Granule FR [™] , Ruberoid [®] Mop Granule FR [®] or Ruberoid [®] EnergyCap [™] 30 Granule FR [™] applied in accordance with manufacturer's instructions. Or
	Ruberoid [®] HW 25 Smooth [™] , Ruberoid [®] HW Smooth [™] , Ruberoid [®] HW Granule [™] , Ruberoid [®] HW Granule FR [™] , Ruberoid [®] HW Plus Granule [™] , Ruberoid [®] HW Plus Granule FR [™] or Ruberoid [®] EnergyCap [™] HW Plus Granule FR [™] applied in accordance with manufacturer's instructions. Or
	(Only for use over Ruberoid [®] 20 Smooth [®] Ply Sheet) GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet [®] , 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.
- 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[®] Membran

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.[®]

Insulation Maximum Design Pressure Table B for Assembly A(4)

Insulation Assemblies

1. Min. 1" EnergyGuard[™] Polyiso Insulation or EnergyGuard[™] RH Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation mopped in asphalt at the rate of 20-40 lbs./sq.

Maximum Design Pressure –150 psf. (See General Limitation #9)

2. *(Optional)Base Layer:* Min. 1" EnergyGuard[™] Polyiso Insulation or EnergyGuard[™] RH Polyiso Insulation, EnergyGuard[™] RN Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation mopped in asphalt at the rate of 20-40 lbs./sq.

Top Layer: Min. ¹/4" DensDeck[®] or SECUROCK[®] Gypsum-Fiber Roof Board mopped in asphalt at the rate of 20-40 lbs./sq.

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

3. *(Optional) Base Layer:* Min. 1" EnergyGuard[™] Polyiso Insulation or EnergyGuard[™] RH Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation, [™] or mopped in asphalt at the rate of 20-40 lbs./sq.

Top Layer: Min. ³/₄" EnergyGuard[™] Perlite Roof Insulation, EnergyGuard[™] Perlite Recover Board or Min. ¹/₂" Structodek[®] High Density Fiber Board Roof Insulation adhered to the base insulation layer or primed concrete deck in a full mopping of approved asphalt applied within the EVT range at a rate of 20-40 lbs./sq.

Maximum Design Pressure –90 psf. (See General Limitation #9)

4. *(Optional) Base Layer:* Min. 1" EnergyGuard[™] Polyiso Insulation or EnergyGuard[™] RH Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation, [™]mopped in asphalt at the rate of 20-40 lbs./sq.

Top Layer: Min. ³/₄" EnergyGuard[™] Perlite Roof Insulation, EnergyGuard[™] Perlite Recover Board or other approved perlite insulation board Min. ¹/₂" Structodek[®] High Density Fiber Board Roof Insulation adhered to the base insulation layer or concrete deck primed with Matrix[™] 307 Premium Asphalt Primer in a full mopping of approved asphalt applied within the EVT range at a rate of 20-40 lbs./sq.

Maximum Design Pressure –90 psf. (See General Limitation #9)



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Membrane Type:	APP/SBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(5):	Insulation adhered with approved adhesive and membranes adhered to insulation.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners	Fastener	
	(Table 3)	Density/ft ²	
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RA Polyiso Insulation,			
EnergyGuard [™] RH Polyiso Insulation, EnergyGuard [™] RN Polyiso Insulation			
Minimum. 2" thick	N/A	N/A	

Note: Base layer shall be adhered with hot asphalt applied at 20-25 lbs./sq. or OlyBond 500[®] or OlyBond 500[®] Green in ³/₄" to 1" wide ribbons spaced 12" o.c.

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
SECUROCK [®] Gypsum-Fiber Roof Board		
Minimum. ¹ /4" thick	N/A	N/A

Note: Apply top layer of insulation with OlyBond[®] at 1 gal./sq. full coverage, OlyBond 500[®] or OlyBond 500[®] Green ³/₄" to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet loose laid. Or One or more plies of Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5 or Ruberoid [®] Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Ply Sheet: (Optional)	(Note: required if GAFGLAS [®] Stratavent Perforated Venting Base Sheet is used) One or more plies of GAFGLAS [®] #80 Ultima [™] Base Sheets, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet 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:	One or more plies of Ruberoid [®] 30 Granule [®] , Ruberoid [®] 30 Granule FR [®] , Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet [®] , Intec Flex PRF, Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Plus Granule [®] , Ruberoid [®] Mop Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Mop Plus Granule FR [™] , Ruberoid [®] Mop Granule FR [®] , 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. Or (Only for use over Ruberoid[®] 20 Smooth Ply Sheet) GAFGLAS [®] Mineral- Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet [®] , 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.	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. [®]
Maximum Design Pressure:	-225 psf. (See General Limitation #9)



Membrane Type:	SBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank primed
System Type A(6):	Membrane fully adhered with approved asphalt.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard[™] Polyiso Insulation, EnergyGuard[™]	⁴ Tapered Polyiso Insulation	
Minimum ½" thick	N/A	N/A

Note: One or more layers of insulation (maximum of 12 inches) shall be adhered with hot asphalt applied at 20-25 lbs. to deck primed with ASTM D-41 Asphalt Primer or Matrix[™] 307 Premium if optional vapor retarder is not present.

Base Sheet:	One ply of GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet loose laid dry with 2" side laps.
Ply Sheet:	One ply of Ruberoid [®] 20 Smooth [®] , Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Smooth or Ruberoid [®] Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. OR Two or three plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet or 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.
Membrane:	One or more plies of Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet [®] , Ruberoid [®] Mop Granule FR [®] , Ruberoid [®] Mop Plus Granule [®] , Intec Flex PRF or 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. Or
	(Only for use over Ruberoid [®] 20 Smooth, Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5 or Ruberoid [®] Mop Plus Smooth Ply Sheet) GAFGLAS [®] Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet [®] , 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.	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.[®]
Maximum Design Pressure:	-150 psf. (See General Limitation #9)



Membrane Type:	SBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type B:	Base sheet adhered with approved asphalt; base insulation layer mechanically fastened, optional top layer adhered with approved asphalt.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

One or more layers of any of the following insulations.		
Base Insulation Layer	Insulation Fasteners	Fastener
·	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation, [™]		
EnergyGuard [™] RA Polyiso Insulation, EnergyGuard	[™] RN Polyiso Insulation	
Minimum. 2" thick	1, 4 or 5	1:1.45

Note: See Roofing Application Standard RAS 117 for fastening details. 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 insulations listed for Base Layer, above.	N/A	N/A

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

Base Sheet:	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 or GAFGLAS [®] FlexPly [™] 6 or Ruberoid [®] 20 Smooth [®] adhere directly to the insulated substrate with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. Or GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet loose laid dry.
Ply Sheet: (Optional)	One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS FlexPly [™] 6 or GAFGLAS [®] #80 Ultima [™] Base Sheet. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



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Membrane:	One or more plies ply of Ruberoid [®] 20 Smooth [®] , Ruberoid [®] 30 Granule [®] , Ruberoid [®] 30 Granule FR [®] , Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet [®] , Intec Flex PRF, Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Plus Granule [®] , Ruberoid [®] Mop Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Mop Plus Granule FR [™] , Ruberoid [®] Mop Granule FR [®] or Ruberoid [®] EnergyCap [™] 30 Granule FR [™] adhere with any approved mopping 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
Maximum Design Pressure:	coats at a minimum rate of 1.0 gal./sq. per coat. [®] -67.5 psf. (See General Limitation #7)
11035010.	over psi. (See General Emiliation "")



Membrane Type:	APP/SBS Heat-Weld
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type C(1):	All layers of insulations are mechanically attached to roof deck. Membrane is subsequently fully or partially adhered to insulation.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RH [™] EnergyGuard [™] RA Polyiso Insulation, EnergyGuard [™]		
Minimum 1½" 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	
DensDeck [®] Roof Board, SECUROCK [®] Gypsum-Fiber Roof Board				
Minimum ¹ /4" thick		1, 4	1:1	
Base Sheet	Install one ply of GAEGLAS® Stratay	vent [®] Perforated Venting Base	Sheet loose laid	

Dase Sheet.	dry.
Ply Sheet:	One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly ^{TM} 6 or GAFGLAS [®] #80 Ultima ^{TM} Base Sheet, Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5 or Ruberoid [®] Mop Plus Smooth adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane:One or more plies of Ruberoid® Torch Smooth, Tri-Ply® APP Smooth Membrane,
Ruberoid® Torch Granule, Tri-Ply® APP Granule Cap Sheet, Ruberoid® Torch Plus
Granule FR®, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™
Torch Plus Granule FR™ applied in accordance with manufacturer's instructions.

Or

One or more plies of Ruberoid[®] HW 25 Smooth[®], Ruberoid[®] HW Smooth[™], Ruberoid[®] HW Granule[™], Ruberoid[®] HW Granule FR[™], Ruberoid[®] HW Plus Granule[™], Ruberoid[®] HW Plus Granule FR[™] or Ruberoid[®] EnergyCap[™] HW Plus Granule FR[™] applied in accordance with manufacturer's instructions.

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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 TM Roof Mate TCM Coating applied in one or more coats at a minimum rate of 1.0 gal./sq. per coat. [®]
Maximum Design	
Pressure:	-82.5 psf. (See General Limitation #7)



Membrane Type:	SBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type C(2):	All layers of insulations are mechanically attached roof deck. Membrane is subsequently fully or partially adhered to insulation.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

Base Insulation Layer	Insulation Fasteners	Fastener		
	(Table 3)	Density/ft ²		
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RH Polyiso Insulation,				
[™] EnergyGuard [™] RA Polyiso Insulation, EnergyGuard [™] RN	Polyiso Insulation			
Minimum 1 ¹ / ₂ " thick	N/A	N/A		

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

Top Insulation Layer Insulation Fasteners (Table 3) DensDeck [®] Roof Board, SECUROCK [®] Gypsum-Fiber Roof Board						Faster Density	-			
	nimum ¼" th	,		CK Oypsum-Fit	I Doart	1, 4			1:1	
ъ	C1 /	T (11	1	CONTOL AGR C	 ® D C	· 137 ·	ъ	C1	. 1	1 • 1

Base Sheet:	Install one ply of GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet loose laid dry.
Ply Sheet: (Optional)	One or more plies of Ruberoid [®] 20 Smooth [®] , GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet or GAFGLAS [®] FlexPly [™] 6 or GAFGLAS [®] #80 Ultima [™] Base Sheet, Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5 or Ruberoid [®] Mop Plus Smooth adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	One or more plies ply of Ruberoid [®] 20 Smooth [®] , Ruberoid [®] 30 Granule [®] , Ruberoid [®]

Membrane: One of more plies ply of Ruberoid® 20 Smooth®, Ruberoid® 30 Granule®, Ruberoid® 30 Granule, Tri-Ply® 30 Granule FR®, Ruberoid® 30 Plus Granule FR, Ruberoid® Mop Granule, Tri-Ply® SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus Granule ®, Ruberoid® Mop Plus Granule Ruberoid® Mop Plus Granule FR®, Ruberoid® EnergyCap[™] Mop Plus Granule FR[™], Ruberoid® Mop Granule FR® or Ruberoid® EnergyCap[™] 30 Granule FR[™] adhered with any approved mopping 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. [®]
Maximum Design	
Pressure:	-82.5 psf. (See General Limitation #7)



Membrane Type:	APP
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type C(3):	All layers of insulations are mechanically attached roof deck. Membrane is subsequently fully or partially adhered to insulation.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

One or more layers of each of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RA	Polviso Insulation.	
EnergyGuard [™] RH Polyiso Insulation, EnergyGuard [™]		
Minimum 1½" thick	· N/A	N/A
Note: Both layers shall be simultaneously attached; see top layer below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.		
Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
SECUROCK [®] Gypsum-Fiber Roof Board		·
Minimum ½" thick	1 & 6	1:1 ft ²

Note: All layers of insulation and optional vapor retarder (when present) shall be mechanically attached using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	One or more plies of Ruberoid [®] HW 25 Smooth [™] or Ruberoid [®] HW Smooth [™] torch adhered with 3 in. wide side laps in accordance to manufacturer's instructions.
Membrane:	Ruberoid [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane [®] , Ruberoid [®] Torch Granule, Tri-Ply [®] APP Granule Cap Sheet [®] , Ruberoid [®] Torch Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Torch Plus Granule FR [™] or Ruberoid [®] EnergyCap [™] Torch Granule FR, torch adhered with 3 in. wide side laps in accordance to manufacturer's 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.[®]
Maximum Design	
Pressure:	-120 psf. (See General Limitation # 7)



Membrane Type:	APP/SBS Heat-Weld
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type D(1):	All insulations are loose laid with preliminary attachment to roof deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RH Pol	yiso Insulation,	
[™] EnergyGuard [™] RA Polyiso Insulation, EnergyGuard [™] R	N Polyiso Insulation	
Minimum 1.3" thick	N/A	N/A
Structodek [®] High Density Fiber Board Roof Insulation		
Minimum 1" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. All insulation shall be adhered to the deck in two ³/₄" beads of Olybond[®], Olybond 500[®] or Olybond 500[®] Green adhesive space at 12" o.c.

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, GAFGLAS [®] Stratavent [®] [™] Nailable Venting Base Sheet or Ruberoid [®] 20 Smooth [®] . Fastened to the deck through the insulation with Drill-Tec [™] #14 Fastener, Drill-Tec [™] 3" Steel Plate or Drill-Tec [™] AccuTrac [®] Flat Plate in a 2" side laps 12" on center. Three rows are equally spaced approximately 9" o.c. in the field of the sheet spaced 12 o.c. along the length of the sheet.
Ply Sheet: (Optional)	(Note: required if used with Ruberoid [®] 20 Smooth [®] or GAFGLAS [®] Stratavent Perforated Venting Base Sheet) One or more plies of GAFGLAS [®] Ply 4, Tri- Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6 or GAFGLAS [®] #80 Ultima [™] Base Sheet adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



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Membrane:	One or more plies of Ruberoid [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane, Ruberoid [®] Torch Granule, Tri-Ply [®] APP Granule Cap Sheet, Ruberoid [®] Torch Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Torch Granule FR or Ruberoid [®] EnergyCap [™] Torch Plus Granule FR [™] applied in accordance to manufacturer's instructions.
	Or One or more plies of Ruberoid [®] HW 25 Smooth [™] , Ruberoid [®] HW Smooth [™] , Ruberoid [®] HW Granule [™] , Ruberoid [®] HW Granule FR [™] , Ruberoid [®] HW Plus Granule [™] , Ruberoid [®] HW Plus Granule FR [™] or Ruberoid [®] EnergyCap [™] HW Plus Granule FR [™] applied in accordance with manufacturer's 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. [®]
Maximum Design Pressure:	-45 psf. (See General Limitation #9)



Membrane Type:	SBS
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type D(2):	All insulations are loose laid with preliminary attachment to roof deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RH Po	lyiso Insulation,	
[™] EnergyGuard [™] RA Polyiso Insulation, EnergyGuard [™] I	RN Polyiso Insulation	
Minimum 1.3" thick	N/A	N/A
Structodek [®] High Density Fiber Board Roof Insulation		
Minimum 1" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. All insulation shall be adhered to the deck in two ³/₄" beads of Olybond[®], Olybond 500[®] or Olybond 500[®] Green adhesive space at 12" o.c.

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, GAFGLAS [®] Stratavent [®] [™] Nailable Venting Base Sheet or Ruberoid [®] 20 Smooth [®] . Fastened to the deck through the insulation with Drill-Tec [™] #14 Fastener and Drill-Tec [™] 3" Steel Plate, Drill-Tec [™] AccuTrac [®] Flat Plate in a 2" side laps 12" on center. Three rows are equally spaced approximately 9" o.c. in the field of the sheet spaced 12 o.c. along the length of the sheet.
Ply Sheet: (Optional)	One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6 or GAFGLAS [®] #80 Ultima [™] Base Sheets. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	One or more plies ply of Ruberoid [®] 20 Smooth [®] , Ruberoid [®] 30 Granule [®] , Ruberoid [®] 30 Granule FR [®] , Ruberoid [®] 30 Plus Granule FR, Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Plus Granule [®] , Ruberoid [®] Mop Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Mop Plus Granule FR [™] , Ruberoid [®] Mop Granule FR [®] or Ruberoid [®] EnergyCap [™] 30 Granule FR [™] adhere with any approved mopping 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. [®]
Maximum Design Pressure:	-45 psf. (See General Limitation #9)



Membrane Type:	APP/SBS Heat-Weld
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type D(3):	All insulations are loose laid with preliminary attachment to roof deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RH Polyis [™] EnergyGuard [™] RA Polyiso Insulation, EnergyGuard [™] RN		·
Minimum 1.3" thick	N/A	N/A
Structodek [®] High Density Fiber Board Roof Insulation Minimum 1" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. All insulation shall be adhered to the deck in two ³/₄" beads of Olybond[®], Olybond 500[®] or Olybond 500[®] Green adhesive space at 12" o.c.

Base Sheet:	Install one ply of Ruberoid [®] HW Smooth [®] . Fastened to the deck through the insulation with Drill-Tec [™] #14 Fastener and Drill-Tec [™] 2 in. Barbed Steel Plate in a 4" side laps 6" on center. Lap is torch sealed according to manufacturer's instructions.
Ply Sheet: (Optional)	One or more plies of Ruberoid [®] HW Smooth [™] torch applied or Ruberoid [®] Mop Smooth or Ruberoid [®] Mop Smooth 1.5 adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	One or more plies of Ruberoid [®] HW 25 Smooth [®] , Ruberoid [®] HW Smooth [™] , Ruberoid [®] HW Granule [™] , Ruberoid [®] HW Granule FR [™] , Ruberoid [®] HW Plus Granule [™] , Ruberoid [®] HW Plus Granule FR [™] or Ruberoid [®] EnergyCap [™] HW Plus Granule FR [™] applied in accordance with manufacturer's 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. [®]
Maximum Design	coats at a minimum rate of 1.0 gai./sq. per coat.
Pressure:	-67.5 psf. (See General Limitation #7)



Membrane Type:	SBS Heat-Weld
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank.
System Type D(4):	All insulations are loose laid with preliminary attachment to roof deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.

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

Insulation Layer	insulation rastellers	rastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RA Pol	lyiso Insulation,	
EnergyGuard[™] RH Polyiso Insulation, EnergyGuard[™] RN	Polyiso Insulation	
Minimum 1½" thick	N/A	N/A

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

- Base Ply: One of the following Ruberoid[®] Mop Smooth, Ruberoid[®] Mop Smooth 1.5, Ruberoid[®] Mop Plus Smooth fastened to the deck with Drill-Tec[™]AccuTrac[®] Flat Plates and Drill-Tec[™] 3" Standard Steel Plates with Drill-Tec[™] #14 Fasteners spaced 6.0 in o.c. through the minimum 3.25 in wide side laps.
- Membrane:One or more plies of Ruberoid[®] HW Smooth[™], Ruberoid[®] HW Granule[™],
Ruberoid[®] HW Granule FR[™], Ruberoid[®] HW Plus Granule[™], Ruberoid[®] HW Plus
Granule FR[™] or Ruberoid[®] EnergyCap[™] HW Plus Granule FR[™] torched adhered
with minimum 3 in wide laps in accordance to manufacturer's 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. [®]
Maximum Design	coats at a minimum rate of 1.0 gai./sq. per coat.
Pressure:	-112.5 (See General Limitation # 7)



Membrane Type:	APP
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(1):	Base sheet adhered with approved asphalt.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.
All General and Syst	tem Limitations shall apply.
Base Sheet: (Optional)	Install one ply of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, Ruberoid [®] 20 Smooth [®] , GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet or GAFGLAS [®] #80 Ultima [™] Base Sheet directly to primed deck. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Ply Sheet: (Optional)	(Note: required with Ruberoid [®] 20 Smooth [®] base sheet) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6 or GAFGLAS [®] #80 Ultima [™] Base Sheet. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	One or more plies of Ruberoid [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane, Ruberoid [®] Torch Granule, Tri-Ply [®] APP Granule Cap Sheet [®] , Ruberoid [®] Torch Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Torch Granule FR or Ruberoid [®] EnergyCap [™] Torch Plus Granule FR [™] applied in accordance with manufacturer's 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.	$GAFGLAS^{\circledast}$ Mineral-Surfaced Cap Sheet, Tri-Ply [®] BUR Granule Cap Sheet [®] or $GAFGLAS^{\circledast}$ EnergyCap TM Mineral-Surfaced Cap Sheet TM 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. [®]
Maximum Design Pressure:	-236 psf. (See General Limitation #9)



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Membrane Type:	APP
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(2):	Base sheet adhered with approved asphalt.

Base Sheet:	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 or Ruberoid [®] 20 Smooth [®] to deck primed with ASTM D- 41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer. Adhere base sheet with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Ply Sheet: (Optional)	(Note: required if used with Ruberoid [®] 20 Smooth [®]) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet or GAFGLAS [®] FlexPly ^{TM} 6 adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	One or more plies of Ruberoid [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane, Ruberoid [®] Torch Granule, Tri-Ply [®] APP Granule Cap Sheet, Ruberoid [®] Torch Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Torch Granule FR or Ruberoid [®] EnergyCap [™] Torch Plus Granule FR [™] applied in accordance with manufacturer's 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. [®]
Maximum Design	
Pressure:	-457.5 psf. (See General Limitation #9)



Membrane Type:	SBS
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(3):	Base sheet adhered with approved asphalt.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.
All General and Sys	tem Limitations shall apply.
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 or Ruberoid [®] 20 Smooth [®] directly to decked primed ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium. Base sheet is adhered with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Ply Sheet: (Optional)	One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly 6 or GAFGLAS [®] #80 Ultima [™] Base Sheet. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	One or more plies ply of Ruberoid [®] 20 Smooth [®] , Ruberoid [®] 30 Granule [®] , Ruberoid [®] 30 Granule FR [®] , Ruberoid [®] 30 Plus Granule FR Ruberoid [®] Mop Granule, Tri-Ply [®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Plus Granule [®] , Ruberoid [®] Mop Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Mop Plus Granule FR [™] , Ruberoid [®] Mop Granule FR [®] or Ruberoid [®] EnergyCap [™] 30 Granule FR [™] adhere with any approved mopping 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. [®]
Maximum Design Pressure:	-442.5 psf. (See General Limitation #9)



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Membrane Type:	SBS
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(4):	Base sheet adhered with approved asphalt.
Vapor Retarder:	(Optional) One or more plies of GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet, GAFGLAS [®] FlexPly [™] 6, GAFGLAS [®] #75 Base Sheet, Tri-Ply [®] #75 Base Sheet, GAFGLAS [®] #80 Ultima [™] Base Sheet or Ruberoid [®] 20 Smooth [®] adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.
All General and System Limitations shall apply.	

Install one ply of GAFGLAS[®] #75 Base Sheet, Tri-Ply[®] #75 Base Sheet, Base Sheet: GAFGLAS[®] #80 Ultima[™] Base Sheet, GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 Ply Sheet, GAFGLAS[®] FlexPly[™] 6, Ruberoid[®] Mop Smooth or Ruberoid[®] 20 Smooth[®] directly to deck primed with ASTM D-41 Asphalt Primer or Matrix[™] 307 Premium. Base sheet is adhered with Matrix[™] 102 SBS Membrane Adhesive at an application rate of 1-2 gal. /sq. One or more plies of Ruberoid[®] 30 Granule[®], Ruberoid[®] 30 Granule FR[®], Membrane: Ruberoid[®] 30 Plus Granule FR, Ruberoid[®] Mop Granule, Tri-Ply[®] SBS Granule Cap Sheet, Intec Flex PRF, Ruberoid[®] Mop Smooth, Ruberoid[®] Mop Smooth 1.5, Ruberoid[®] Mop Plus Smooth, Ruberoid[®] Mop Plus Granule[®], Ruberoid[®] Mop Plus Granule FR[®], Ruberoid[®] EnergyCap[™] Mop Plus Granule FR[™], Ruberoid[®] Mop Granule FR[®] or Ruberoid[®] EnergyCap[™] 30 Granule FR[™] adhered with 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. 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.® Maximum Design Pressure: -307.5 psf. (See General Limitation #9)



Membrane Type:	SBS
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(5):	Membrane fully adhered with approved asphalt.
All General and System Limitations shall apply.	
Base Sheet:	GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet, loose laid dry over deck

Base Sheet.	primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.
Ply Sheet: (Optional)	One or more plies of Ruberoid [®] 20 Smooth [®] , GAFGLAS [®] #80 Ultima TM Base Sheet , GAFGLAS [®] Ply 4, Tri-Ply [®] Ply 4 Ply Sheet or GAFGLAS [®] FlexPly TM 6 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 [®] 30 Granule FR [®] , Ruberoid [®] 30 Plus Granule FR, Tri-Ply [®] SBS Granule Cap Sheet [®] , Intec Flex PRF, Ruberoid [®] Mop Smooth, Ruberoid [®] Mop Smooth 1.5, Ruberoid [®] Mop Plus Smooth, Ruberoid [®] Mop Plus Granule [®] , Ruberoid [®] Mop Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Mop Plus Granule FR [™] , Ruberoid [®] Mop 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
Mauinum Dasism	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 Design Pressure:

-195 psf. (See General Limitation #9)



Membrane Type:	APP/SBS Heat-Weld	
Deck Type 3:	Concrete Decks, Non-Insulated	
Deck Description:	2500 psi structural concrete or concrete plank	
System Type F(6):	Membrane fully adhered with approved asphalt.	
All General and System Limitations shall apply.		
Base Sheet:	GAFGLAS [®] Stratavent [®] Perforated Venting Base Sheet, loose laid dry over deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.	
Ply Sheet:	One or more plies of Ruberoid [®] 20 Smooth [®] , GAFGLAS [®] #80 Ultima [™] Base Sheets, GAFGLAS [®] #75 Base Sheet or Tri-Ply [®] #75 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 [®] Torch Smooth, Tri-Ply [®] APP Smooth Membrane, Ruberoid [®] Torch Granule, Tri-Ply [®] APP Granule Cap Sheet, Ruberoid [®] Torch Plus Granule FR [®] , Ruberoid [®] EnergyCap [™] Torch Granule FR or Ruberoid [®] EnergyCap [™] Torch Plus Granule FR [™] applied in accordance with manufacturer's instructions. OR Ruberoid [®] HW 25 Smooth [™] , Ruberoid [®] HW Smooth [™] , Ruberoid [®] HW Granule [™] ,	

Ruberoid[®] HW 25 Smooth[™], Ruberoid[®] HW Smooth[™], Ruberoid[®] HW Granule[™], Ruberoid[®] HW Granule FR[™], Ruberoid[®] HW Plus Granule[™], Ruberoid[®] HW Plus Granule FR[™] or Ruberoid[®] EnergyCap[™] HW Plus Granule FR[™] applied in accordance with manufacturer's 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.
- 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.[®]

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



Mambuana Tama.	ADD/SDS Heat Wold	
Membrane Type:	APP/SBS Heat-Weld	
Deck Type 3:	Concrete Decks, Non-Insulated	
Deck Description:	2500 psi structural concrete or concrete plank	
System Type F(7):	Membrane fully adhered with approved asphalt.	
All General and System Limitations shall apply.		
Base Sheet:	One ply of Ruberoid [®] HW Smooth [™] torched adhered to deck primed with ASTM D-41 Asphalt Primer or Matrix [™] 307 Premium Asphalt Primer.	
Ply Sheet: (Optional)	One or more plies of Ruberoid [®] HW Smooth ^{$^{\text{M}}$} or Ruberoid [®] HW 25 Smooth ^{$^{\text{M}}$} 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 ply of Ruberoid [®] HW 25 Smooth [™] , Ruberoid [®] HW Smooth [™] , Ruberoid [®] HW Granule [™] , Ruberoid [®] HW Granule FR [™] , Ruberoid [®] HW Plus Granule [™] , Ruberoid [®] HW Plus Granule FR [™] or Ruberoid [®] EnergyCap [™] HW Plus Granule FR [™] applied in accordance with manufacturer's 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.	
Surfacing: 1.	Chosen components must be applied according to manufacturer's application	
	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	
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. GAFGLAS[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] BUR Granule Cap Sheet[®] or GAFGLAS[®] EnergyCap[™] Mineral-Surfaced Cap Sheet[™] adhered in a full mopping 	
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[®] 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. 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. 	



CONCRETE DECK SYSTEM LIMITATIONS:

 If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117; calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.

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 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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