



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
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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 Cementitious Wood Fiber 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. 15-0129.23 and consists of pages 1 through 16.
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 15-1001.06
Expiration Date: 11/06/18
Approval Date: 11/05/15
Page 1 of 16

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Material:	APP/SBS
Deck Type:	Cementitious Wood Fiber
Maximum Design Pressure:	-82.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
GAFGLAS® Ply 4	39.37" (1 meter) Wide	ASTM D2178	A smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
Tri-Ply® Ply 4	39.37" (1 meter) Wide	ASTM D2178	A smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
GAFGLAS® FlexPly™ 6	39.37" (1 meter) Wide	ASTM D2178	A smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
GAFGLAS® #75 Base Sheet	39.37" (1 meter) Wide	ASTM D4601	Type II asphalt impregnated and coated glass mat base sheet.
Tri-Ply® #75 Base Sheet	39.37" (1 meter) Wide	ASTM D4601	A smooth asphaltic base or base/ply sheet reinforced with fiberglass mat.
GAFGLAS® #80 Ultima Base Sheet	39.37" (1 meter) Wide	ASTM D4601	A smooth asphaltic base or base/ply sheet reinforced with fiberglass mat.
GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet	39.37" (1 meter) Wide	ASTM D4897	A smooth surfaced asphaltic perforated venting base sheet reinforced with fiberglass mat.
GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet	39.37" (1 meter) Wide	ASTM D4897	A smooth surfaced asphaltic nailable venting base sheet reinforced with fiberglass mat. Bottom side surfaced with granules.
Ruberoid® SBS Heat-Weld 25	39.37" (1 meter) Wide	ASTM D6163	A smooth surfaced torch applied SBS base or ply sheet reinforced with a fiberglass mat.
Ruberoid® SBS Heat-Weld Smooth	39.37" (1 meter) Wide	ASTM D6164	A smooth surfaced torch applied SBS base or ply sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld Granule	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld 170 FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced heat-welded SBS cap sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld Plus	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® SBS Heat-Weld Plus FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.



Product	Dimensions	Test Specification	Product Description
Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced heat-welded SBS cap sheet reinforced with a polyester mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Ruberoid® Torch Smooth	39.37" (1 meter) Wide	ASTM D6222	A smooth surfaced torch applied APP base or ply sheet reinforced with a polyester mat.
Tri-Ply® TP-4	39.37" (1 meter) Wide	ASTM D6222	A 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	A granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Ruberoid® Torch 180	39.37" (1 meter) Wide	ASTM D6222	A granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Tri-Ply® TP-4G	39.37" (1 meter) Wide	ASTM D6222	A granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Ruberoid® Torch FR	39.37" (1 meter) Wide	ASTM D6222	A fire retardant granule surfaced torch applied APP cap sheet reinforced with a polyester mat.
Ruberoid® EnergyCap™ Torch Plus FR	39.37" (1 meter) Wide	ASTM D6222	A fire retardant granule surfaced torch applied APP cap sheet reinforced with a polyester mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Ruberoid® EnergyCap™ Torch Granule FR	39.37" (1 meter) Wide	ASTM D6222	A fire retardant granule surfaced torch applied APP cap sheet reinforced with a polyester mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Ruberoid® 20	39.37" (1 meter) Wide	ASTM D6163	An SBS polymer-modified asphalt base or ply sheet reinforced with a fiberglass mat.
Ruberoid® 30	39.37" (1 meter) Wide	ASTM D6163	A granule surfaced mop applied SBS cap sheet reinforced with a fiberglass mat.
Ruberoid® 30 FR	39.37" (1 meter) Wide	ASTM D6163	A fire retardant granule surfaced mop applied SBS cap sheet reinforced with fiberglass mat.
Ruberoid® Mop Granule	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Tri-Ply® SBS Modified Bitumen Membrane	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Intec Flex PRF	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® Mop Smooth	39.37" (1 meter) Wide	ASTM D6164	A smooth surfaced mop applied SBS base sheet reinforced with a polyester mat.
Ruberoid® Mop Smooth 1.5	39.37" (1 meter) Wide	ASTM D6164	A smooth surfaced mop applied SBS base sheet reinforced with a polyester mat.



Product	Dimensions	Test Specification	Product Description
Ruberoid® Mop Plus Smooth	39.37" (1 meter) Wide	ASTM D6164	A smooth surfaced mop applied SBS base or ply sheet reinforced with a polyester mat.
Ruberoid® Mop Plus	39.37" (1 meter) Wide	ASTM D6164	A granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® Mop FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® EnergyCap™ Mop FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced mop applied SBS cap sheet reinforced with a polyester mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Ruberoid® Mop 170 FR	39.37" (1 meter) Wide	ASTM D6164	A fire retardant granule surfaced mop applied SBS cap sheet reinforced with a polyester mat.
Ruberoid® EnergyCap™ 30 FR SBS Membrane	39.37" (1 meter) Wide	ASTM D6163	A fire retardant granule surfaced mop applied SBS cap sheet reinforced with a fiberglass mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
GAFGLAS® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	A granule surfaced asphaltic cap sheet reinforced with fiberglass mat.
Tri-Ply® Mineral Surfaced Cap Sheet	39.37" (1 meter) wide	ASTM D3909	A granule surfaced asphaltic cap sheet reinforced with a fiberglass mat.
GAFGLAS® EnergyCap™ BUR Mineral Surface Cap Sheet	39.37" (1 meter) Wide	ASTM D3909	A granule surfaced asphaltic cap sheet reinforced with fiberglass mat. Cap sheet is factory coated with Topcoat® EnergyCote™ Elastomeric Coating.
Matrix™ 102 SBS Membrane Adhesive	3, 5 or 55 gallons	ASTM D3019	Fiber reinforced rubberized cold-applied adhesive for modified bitumen roof systems.
Matrix™ 307 Premium Asphalt Primer	3, 5 or 55 gallons	ASTM D41	Asphalt concrete primer used to promote adhesion of all types of asphalt-based roofing materials.
Topcoat® Membrane	1, 5 or 55 gallons	ASTM D6083	Acrylic, water based elastomeric membrane system designed to protect various types of roof surfaces.
Topcoat® Surface Seal SB	5 gallons	ASTM D6083	Solvent based sprayable thermoplastic rubber sealant designed to protect and restore aged roof surfaces and to increase roof reflectivity.
Topcoat® MB Plus	5 or 55 gallons	Proprietary	Water based, low VOC primer used to block asphalt bleed-through.
Topcoat® Flex Seal	1 gallon, 5 gallons or 1 qt. tube	TAS 139	Solvent based flashing compound for gutters and other detailing.



APPROVED INSULATIONS:

TABLE 2		
Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ Ultra Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Composite Polyiso Insulation	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.	GAF.
EnergyGuard™ RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RH Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ Perlite Roof Insulation	Perlite insulation board.	GAF
EnergyGuard™ Perlite Recover Board	Perlite recover board	GAF
Securock® Gypsum-Fiber Roof Board	Gypsum board	United States Gypsum Corp.
Structodek® High Density Fiber Board Roof Insulation	High density fiberboard	Blue Ridge Fiberboard, Inc.
DensDeck® Roof Board	Gypsum roof board	Georgia-Pacific Gypsum LLC
DensDeck® Prime® Roof Board	Gypsum roof board	Georgia-Pacific Gypsum LLC

APPROVED FASTENERS:

TABLE 3				
Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1	Drill-Tec™ Locking Impact Nail	Base Sheet fastener for lightweight concrete, gypsum & Tectum decks.	Fastener: Various lengths Plate: 2.7” diameter	GAF



EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
FM Approvals	FM 4470	3014547	05/22/03
	FM 4470	3040738	05/18/12
	FM 4470	3042887	11/14/11
	FM 4470	3044688	03/01/12
	FM 4470	3048066	12/13/13
	FM 4470	3031294	06/21/11
	FM 4470	0D0A8.AM	07/09/97
	FM 4470	0Y9Q5.AM	04/01/98
	FM 4470	2B8A4.AM	07/02/97
	FM 4470	3B9Q1.AM	01/08/98
	FM 4470	0T4A1.AM	12/14/05
Exterior Research & Design, LLC	TAS 117	4670.03.01-1	09/20/01
Trinity ERD	ASTM D6862	C8500SC.11.07	11/30/07
	ASTM D6163	G6850.08.08	08/01/08
	ASTM D6164	G6850.08.08-R1	04/14/11
	ASTM D6222	G6850.10.08	10/06/08
	ASTM D6222	G6850.11.08	02/17/09
	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 D4879	G34140.04.11-5-R3	06/04/15
	ASTM D6222	G40620.07.12-2	07/17/12
	ASTM D6163	G40630.01.14-1	01/06/14
	ASTM D6164	G40630.01.14-2A	01/07/14
	ASTM D6164	G40630.01.14-2A-1-R1	04/10/14
	ASTM D6164	G40630.01.14-2B-R1	01/16/15
	ASTM D6164	G40630.01.14-2C	01/07/14
	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	G46160.02.15-2D	02/03/15
	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 D3909	SC6870.08.14-R1	09/04/14



EVIDENCE SUBMITTED: (CONTINUED)

<u>Test Agency</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Underwriters Laboratories, Inc.	UL 790	R1306	07/22/13
PRI Construction Materials Technologies LLC.	ASTM D6083	GAF-084-02-01	05/07/06
	TAS 139	GAF-122-02-01	05/07/06
	ASTM D2178	GAF-314-02-01	08/23/11
	ASTM D2178	GAF-315-02-01	08/23/11
	ASTM D1970	GAF-343-02-01	04/23/12
	ASTM C1289	GAF-369-02-01	10/22/12
	ASTM C1289	GAF 417-02-01	05/28/13
	ASTM C1289	GAF-464-02-01	02/06/14
	ASTM D6083	GAF-499-02-01	03/12/14
	ASTM D6083	GAF-500-02-01	03/12/14
IRT-ARCON, Inc.	TAS 114	02-026	07/26/02



APPROVED ASSEMBLIES

Membrane Type: SBS Heat Weld

Deck Type 5I: Cementitious Wood Fiber

Deck Description: Cementitious Wood Fiber

System Type A(1): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

Anchor Sheet: One ply of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet, Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® 20 or Ruberoid® Mop Smooth mechanically fastened with Drill-Tec™ Locking Impact Nail at a 3" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.

All General and System Limitations shall apply.

One or more layers of any of the following insulations.

(Optional) Base Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation Minimum 1" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

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

Base Sheet: One or more plies of Ruberoid® SBS Heat-Weld™ 25 or Ruberoid® SBS Heat-Weld Smooth adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See General Limitation #4)

Membrane: One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied according to manufacturer’s instructions.



Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied in accordance with manufacturer's instructions. Any coating listed below used as a surfacing must be listed with a current NOA.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR 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® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum coating applied in accordance with manufacturer's application instructions.

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



Membrane Type: APP/SBS Heat Weld
Deck Type 5I: Cementitious Wood Fiber
Deck Description: Cementitious Wood Fiber
System Type A(2): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations shall apply.

Anchor Sheet: One ply of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet, Venting Base Sheet, Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® 20, Ruberoid® Mop Smooth mechanically fastened with Drill-Tec™ Locking Impact Nail at a 3" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.3" thick	N/A	N/A
Structodek® High Density Fiber Board Roof Insulation, EnergyGuard™ Perlite Recover Board, EnergyGuard™ Perlite Roof Insulation Minimum ½" thick	N/A	N/A

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

Base Sheet: One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth adhered to the insulation in a full mopping of an approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. (See General Limitation #4)
 Or
 GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet loose laid dry followed by a mopped ply sheet listed below.

Ply Sheet: (Optional) **(Required over GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet)** One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #80 Ultima Base Sheet or Ruberoid® 20 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® TP-4, Ruberoid® Torch Granule, Ruberoid® Torch 180, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Plus FR or Ruberoid® EnergyCap™ Torch Granule FR torch applied according to manufacturer's application instructions.

Or

One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied according to manufacturer's application instructions.

Or

(Only for use over Ruberoid® 20 Ply Sheet) GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR 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 in accordance with manufacturer's instructions. Any coating listed below used as a surfacing must be listed with a current NOA.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR 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® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum coating applied in accordance with manufacturer's application instructions.

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

Membrane Type: SBS/SBS Cold Applied

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious Wood Fiber

System Type A(3): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

Anchor Sheet: One ply of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet, Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth mechanically fastened with Drill-Tec™ Locking Impact Nail at a 3" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.

All General and System Limitations shall apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation Minimum 1.3" thick	N/A	N/A
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Ultra Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1.4" thick	N/A	N/A
Structodek® High Density Fiberboard Roof Insulation, EnergyGuard™ Perlite Recover Board, EnergyGuard™ Perlite Roof Board Minimum ½" thick	N/A	N/A
Base or Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck® Roof Board, DensDeck® Prime® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A
Structodek® High Density Fiberboard Roof Insulation, EnergyGuard™ Perlite Recover Board, EnergyGuard™ Perlite Roof Board Minimum ½" thick	N/A	N/A

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



- Base Sheet:** One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth adhered to the insulation in a full mopping of an approved asphalt applied within the EVT range and at a rate of 20-40 lbs. sq. (See General Limitation #4)
Or
GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet loose laid dry followed by a mopped ply sheet listed below.
- Ply Sheet: (Optional)** **(Required over GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet)** One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, 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.
- Membrane:** One or more plies of Ruberoid® 30, Ruberoid® 30 FR, Ruberoid® Mop Granule, Tri-Ply® SBS Modified Bitumen Membrane, Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus, Ruberoid® Mop FR, Ruberoid® EnergyCap™ Mop FR, Ruberoid® Mop 170 FR or Ruberoid® EnergyCap™ 30 FR SBS Membrane adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Matrix™ 102 SBS Membrane Adhesive at an application rate of 1-2 gal./sq.
Or
(Only for use over Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth Ply Sheet) GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR 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 in accordance with manufacturer's instructions. Any coating listed below used as a surfacing must be listed with a current NOA.**
1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
 2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR 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® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
 4. A fibered aluminum coating applied in accordance with manufacturer's application instructions.
- Maximum Design Pressure:** -82.5 psf. (See General Limitation #7)



Membrane Type: APP/SBS Heat Weld
Deck Type 5: Cementitious Wood Fiber, Non-Insulated
Deck Description: Cementitious Wood Fiber
System Type E(1): Anchor sheet mechanically fastened

All General and System Limitations shall apply.

Anchor Sheet: Install one ply of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet, Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® 20 or Ruberoid® Mop Smooth mechanically fastened with 1.8” Drill-Tec™ Locking Impact Nail fastened at 9" o.c. at the 3" side lap and in two 12" o.c. staggered rows in the field.

**Ply Sheet:
(Optional)** One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6 or GAFGLAS® #80 Ultima™ Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Ruberoid® Torch 180, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Plus FR or Ruberoid® EnergyCap™ Torch Granule FR torch applied according to manufacturer's application instructions.

Or

One or more plies of Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® SBS Heat-Weld Granule, Ruberoid® SBS Heat-Weld 170 FR, Ruberoid® SBS Heat-Weld Plus, Ruberoid® SBS Heat-Weld Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld Plus FR applied according to manufacturer's application instructions.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied in accordance with manufacturer's instructions. Any coating listed below used as a surfacing must be listed with a current NOA.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR 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® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum coating applied in accordance with manufacturer's application instructions.

Maximum Design

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



Membrane: SBS/SBS Cold Applied
Deck Type 5: Cementitious Wood Fiber, Non-Insulated
Deck Description: Cementitious wood fiber
System Type E(2): Anchor sheet mechanically fastened

All General and System Limitations shall apply.

Anchor Sheet: Install one ply of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet, Ruberoid® SBS Heat-Weld 25, Ruberoid® SBS Heat-Weld Smooth, Ruberoid® 20 or Ruberoid® Mop Smooth mechanically fastened with 1.8” Drill- Tec™ Locking Impact Nail fastened at 9" o.c. at the 3" side lap and in two 12" o.c. staggered rows in the field.

**Ply Sheet:
(Optional)** One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #80 Ultima Base Sheet, Ruberoid® 20 Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, 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.

Membrane: One or more plies of Ruberoid® 30, Ruberoid® 30 FR, Ruberoid® Mop Granule, Tri-Ply® SBS Modified Bitumen Membrane, RoofMatch™ SBS Modified Granular, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus, Ruberoid® Mop FR, Ruberoid® EnergyCap™ Mop FR, Ruberoid® Mop 170 FR or Ruberoid® EnergyCap™ 30 FR SBS Membrane adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Matrix™ 102 SBS Membrane Adhesive at an application rate of 1-2 gal./sq.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied in accordance with manufacturer's instructions. Any coating listed below used as a surfacing must be listed with a current NOA.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR 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® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
4. A fibered aluminum coating applied in accordance with manufacturer's application instructions.

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



GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
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

