



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

**NOTICE OF ACCEPTANCE (NOA)**

**GAF Material Corporation  
1361 Alps Road  
Wayne, NJ 07470**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: GAF Conventional Built-Up Roof System for Lightweight Concrete Deck.**

**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 NOA #01-0712.08 and consists of pages 1 through 20.  
The submitted documentation was reviewed by Frank Zuloaga, RRC



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## ROOFING SYSTEM APPROVAL

**Category:** Roofing  
**Sub-Category:** BUR  
**Deck Type:** Lightweight Concrete  
**Maximum Design Pressure** -112.5 psf  
**Fire Classification:** See General Limitation #1

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
GAF Asphalt Concrete Primer (Matrix™ 307 Primer)	5, 55 gallons	ASTM D 41	Asphalt concrete primer used to promote adhesion of asphalt in built-up roofing.
GAF Mineral Shield® Granules	60 lb. bags	ASTM D 1863	Granules for surfacing of exposed asphalt, cold process cement or emulsion. GAF Mineral Shield® Granules shall be used for flashing applications only.
GAF WeatherCoat® Emulsion (Matrix™ Fibered 305 Emulsion)	5 gallons	ASTM 1227	Surface coating for smooth surfaced roofs.
GAF Premium Fibered Aluminum Roof Coating (Matrix™ System Pro Aluminum Roof Coating Fibered 301)	1, 5 gallons	ASTM D 2824	Fibered aluminum coating.
GAF Jetblack All Weather Plastic Cement (Matrix™ Standard Wet/Dry Roof Cement 204)	1, 5 gallons	ASTM D 3019 ASTM D 3409	Refined asphalt blended with a mineral stabilizer and fibers. Permits adhesion to wet and dry surfaces.
RUBEROID® Modified Bitumen Flashing Cement	5 gallons	ASTM D 4586	Fiber reinforced, polymer modified Flashing cement
Jetblack Premium Flashing Cement	5 gallons	ASTM D 4586	Asphalt flashing Cement
GAFGLAS® #75	39.37" (1 meter) wide	ASTM D 4601	Asphalt impregnated and coated glass mat base sheet.
GAFGLAS #80 Ultima Base Sheet	39.37" (1 meter) wide	ASTM D4601	Asphalt impregnated and coated, fiberglass base sheet
GAFGLAS Flex Ply™ 6	39.37" (1 meter) wide	ASTM D 2178	Type VI asphalt impregnated glass felt with asphalt coating.



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<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
GAFGLAS Ply 4®	39.37" (1 meter) wide	ASTM D 2178	Type IV asphalt impregnated glass felt with asphalt coating.
GAFGLAS® Mineral Surfaced Cap Sheet	39.37" (1 meter) wide	ASTM D 3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
GAFGLAS® STRATAVENT® Eliminator Perforated	39.37" (1 meter) wide	ASTM D 4897 D 3672	Fiberglass base sheet impregnated and coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating with factory perforations.
GAFGLAS® Flashing	Various		Asphalt coated glass fiber mat flashing sheet available in three sizes.
GAFGLAS® STRATAVENT Eliminator Perforated Nailable	39.37" (1 meter) wide	ASTM D 4897 D 3672	Fiberglass base sheet impregnated and coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating.
RUBEROID® SBS Heat-Weld™ Smooth	1 meter (39.37") wide	ASTM D-6164	Non-Woven Polyester mat coated with polymer-modified asphalt and smooth surfaced.
RUBEROID® SBS Heat-Weld™ Granule	1 meter (39.37") wide	ASTM D-6164	Non-Woven Polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
RUBEROID® SBS Heat-Weld™ 170 FR	1 meter (39.37") wide	ASTM D-6164	Non-Woven Polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.
RUBEROID® SBS Heat-Weld™ PLUS	1 meter (39.37") wide	ASTM D-6164	Non-Woven Polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
RUBEROID® SBS Heat-Weld PLUS FR	1 meter (39.37") wide	ASTM D-6164	Non-Woven Polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.
RUBEROID® SBS Heat-Weld™ 25	1 meter (39.37") wide	ASTM D-6164	Non-Woven Polyester mat coated with polymer-modified asphalt and smooth surfaced.
RUBEROID Modified Base Sheet	39.37" (1 meter) wide	ASTM D4601, Type II, UL Type G2 BUR	Premium glass fiber reinforced SBS-modified base sheet
Ruberoid® 20	39.37" (1 meter) wide	ASTM D 6163 ASTM D 5147	SBS modified asphalt base sheet and interply sheet reinforce with a glass fiber mat.
Ruberoid® Mop Granule	39.37" (1 meter) wide	ASTM D 6222 ASTM D 5147	Non-woven polyester mat coated with polymer modified asphalt and surfaced with mineral granules.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Ruberoid® Mop Plus (Granule)	39.37" (1 meter) wide	ASTM D 6222 ASTM D 5147	Non-woven polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
RUBEROID MOP Smooth	39.37" (1 meter) wide	ASTM D 6164 ASTM D 5147	Non-woven polyester mat coated with polymer-modified asphalt and smooth surfaced.
RUBEROID® MOP 170FR	39.37" (1 meter) wide	ASTM D 6164 ASTM D 5147	Non-Woven polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.
RUBEROID® MOP FR	39.37" (1 meter) wide	ASTM D 6164 ASTM D 5147	Non-Woven polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.
RUBEROID® TORCH Smooth	39.37" (1 meter) wide	ASTM D 5147	Heavy duty, polyester reinforced, asphalt modified bitumen membrane, smooth surface.
RUBEROID® TORCH Granule	39.37" (1 meter) wide	ASTM D 5147	Asphalt impregnated, coated felt, surfaced with mineral granule.
RUBEROID® TORCH PLUS (Granule)	39.37" (1 meter) wide	ASTM D 6222 ASTM D 5147	Heavy duty, polyester reinforced, asphalt modified bitumen membrane, granule surface
RUBEROID® TORCH FR	39.37" (1 meter) wide	ASTM D 6222 ASTM D 5147	Heavy duty, polyester reinforced, coated with fire retardant asphalt modified bitumen membrane, granule surface.
RUBEROID 170FR TORCH	39.37" (1 meter) Wide	ASTM D 6222 ASTM D 5147	Heavy duty, polyester reinforced, coated with fire retardant asphalt modified bitumen membrane, granule surface.
RUBEROID® 30	39.37" (1 meter) wide	ASTM D 6163 ASTM D 5147	Non-woven fiberglass mat coated with polymer modified asphalt and surfaced with mineral granules.
RUBEROID® 30 FR	39.37" (1 meter) wide	ASTM D 6163 ASTM D 5147	Non-woven fiberglass mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.
RUBEROID ULTRACLAD® SBS	39.37" (1 meter) wide	ASTM D 6298 ASTM D 5147	Woven fiberglass mat coated with Polymer modified asphalt and surfaced with aluminum, copper or stainless steel foil.
RUBEROID® Dual FR	39.37" (1 meter) Wide	ASTM D 6164 ASTM D 5147	Non-woven polyester and fiberglass mat coated with fire retardant, polymer modified asphalt and surfaced with mineral granules.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Vent Stacks (metal and plastic)		PA 100(A) ASTM D 1929 ASTM D 635	One way valve vent used to relieve built-up pressure within the roof system. GAF Vent Stacks are available in metal or plastic.
GAF Aluminum Emulsion	5 gallons	None	Mineral colloidal bituminous emulsion with reflective aluminum flakes
GAF Aluminum Roof Paint (Matrix® System Pro Aluminum Roof Coating Fibered 302)	5 gallons	ASTM D2824, Type I	Non-fibered aluminum pigmented, asphalt roof coating
GAF Built-Up Roofing Asphalt	100 lb. cartons, bulk	ASTM D312, Types I, II, III and IV	Interply mopping and surfacing asphalt
RUBEROID MOD Asphalt, Asphalt L & Asphalt P	60 lb. kegs		SEBS modified asphalt
TopCoat® Surface Seal SB (Matrix 602 SB Coating)	5 gallons		Surface coating for smooth surfaced and mineral surfaced roofs.
GAF WeatherCote® MB+(Matrix 715 MB Coating)	5 gallons		Surface coating for smooth surfaced and mineral surfaced roofs.
TopCoat MB+(Matrix 715 MB Coating)	5 gallons		Surface coating for smooth surfaced and mineral surfaced roofs.
WeatherCote™ (Matrix 531 WeatherCote® Elastomeric Flashing Grade)	5 gallons		Surface coating for smooth surfaced and mineral surfaced roofs.
Matrix Low VOC	5 gallons		Surface coating for smooth surfaced and mineral surfaced roofs.
Matrix 101 System Pro SBS Adhesive	5 gallons	ASTM D3019	Cold Applied Modified SEBS Asphalt Adhesive
(Ruberoid®MB) Matrix 201 System Pro SBS Flashing	5 gallons	ASTM D3019	Cold Applied Modified SEBS Asphalt Adhesive – Flashing Grade.
(Ruberoid®MB) Matrix 102 Select SBS Adhesive	5 gallons	ASTM D3019	Cold Applied Modified SEBS Asphalt Adhesive.
(Ruberoid®MB) Matrix 202 Select SBS Flashing	5 gallons	ASTM D4586	Cold Applied Modified SEBS Asphalt Adhesive – Flashing Grade.
Matrix 203 Standard Plastic Cement	5 gallons	ASTM D4586	Standard Plastic Asphalt Roofing Cement
Matrix 213 Gun Grade Plastic Cement	5 gallons	ASTM D4586	Standard Plastic Asphalt Roofing Cement Caulk Grade.
Matrix 103 Cold Adhesive	5 gallons	ASTM D3019	Cold Applied Asphalt Adhesive.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Matrix 303 Select Fibered Aluminum	5 gallons	ASTM D 2824	Fibered aluminum coating.
Matrix 304 Select Non- Fibered	5 gallons	ASTM D2824, Type I	Non-fibered aluminum pigmented, asphalt roof coating.
RUBEROID® Modified Bitumen Adhesive	5 gallons	ASTM D 3019 Type III	Fiber reinforced, rubberized Adhesive

**APPROVED INSULATIONS:**

**TABLE 2**

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
GAFTEMP Isotherm R, RA, RN & EnergyGuard RA	Polyisocyanurate foam insulation	GAF Materials Corp.
GAFTEMP® Composite, Composite RA & RN	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.	GAF Materials Corp.
(BMCA)GAFTEMP® Fiberboard	Fiberboard insulation.	GAF Materials Corp.
GAFTEMP® Permalite	Perlite insulation board.	GAF Materials Corp.
GAFTEMP GAFCANT™	Cut perlite board	GAF Materials Corp.
GAFTEMP Permalite Recover Board	Perlite recover board	GAF Materials Corp.
GAFTEMP GAFEDGE™ Tapered Edge Strip	Tapered perlite board	GAF Materials Corp.
(BMCA) GAFTEMP® High Density Fiberboard	High density wood fiberboard insulation.	GAF Materials Corp.
BMCA EnergyGuard, RA	Polyisocynurate foam insulation	BMCA
BMCA EnergyGuard Composite, RA	Polyisocynurate/wood fiberboard or perlite composite	BMCA
PYROX	Polyisocyanurate foam insulation	Apache Products Co.
ACFoam I, II	Polyisocyanurate foam insulation	Atlas Energy Products
ISO 95+	Polyisocyanurate foam insulation	Firestone Building Products, Inc.
ISO 95+ Composite	Polyisocyanurate/perlite ridged insulation	Firestone Building Products, Inc.
Wood Fiber	Wood fiber insulation board	generic
High Density Wood Fiberboard	Wood fiber insulation board	generic
Perlite Insulation	Perlite insulation board	generic



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**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
Dens Deck	Water resistant gypsum board	G-P Gypsum Corp.
ENRGY-2, UltraGard Gold	Polyisocyanurate foam insulation	Johns Manville
FiberGlass Roof Insulation	Glass fiber/Mineral fiber insulation	Johns Manville
ISORoc	Polyisocyanurate foam / rockwool composite insulation	Johns Manville
Structodek	Wood fiber insulation board	Masonite.
Paroc Base Board Paroc Cap Board	Rockwool insulation	Partek, Inc.
Multi-Max, FA	Polyisocyanurate foam insulation	Rmax, Inc.

**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
1.	GAFTITE® (Drill-Tec®) #12 Standard & #14 Heavy Duty Roofing Fastener	Insulation fastener for steel, wood & concrete decks.		GAF Materials Corp.
2.	GAFTITE® (Drill-Tec®) ASAP	Pre-assembled GAFTITE Fasteners and metal and plastic plates.		GAF Materials Corp.
3.	GAFTITE® (Drill-Tec®) CR Base Sheet Fastener and Plate	Base sheet fastening assembly.		GAF Materials Corp.
4.	Galvalume Plates (Drill-Tec® Metal)	Round galvalume stress plates.	3" and 3 ½"	GAF Materials Corp.
5.	Polypropylene Plates (Drill-Tec® Plastic)	Round polypropylene stress plates.	3" and 3 ½"	GAF Materials Corp.
6.	NTB Fasteners	Fastener for use in gypsum, tectum and lightweight insulating concrete decks.		GAF Materials Corp.
7.	FM-30, FM-60, FM-90 Fasteners and Twin Loc-Nail	Base ply fastening systems for lightweight concrete decks.		ES Products, Inc.
8.	Olympic CR Base Sheet Fastener and Plate	Base sheet fastening assembly.		Olympic Manufacturing Group, Inc.
9.	Olympic Fastener #12 & #14	Insulation fastener		Olympic Manufacturing Group, Inc.



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**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
10.	Olympic Fastener ASAP	Pre-assembled Insulation fastener and plate		Olympic Manufacturing Group, Inc.
11.	Olympic Polypropylene	Polypropylene plastic plate	3.25" round	Olympic Manufacturing Group, Inc.
12.	Olympic G-2	3.5" round galvalume AZ55 steel plate	3.5" round	Olympic Manufacturing Group, Inc.
13.	Olympic Standard	3" round galvalume AZ50 steel plate	3" round	Olympic Manufacturing Group, Inc.

**EVIDENCE SUBMITTED:**

<b><u>Test Agency</u></b>	<b><u>Test Identifier</u></b>	<b><u>Description</u></b>	<b><u>Date</u></b>
Factory Mutual Research Corp.	FMRC 1996	Current Insulation Attachment Requirements	01.01.96
Factory Mutual Research Corp.	J.I. 2B8A4.AM	Wind Uplift	07.02.97
	J.I. 3B9Q1.AM	FMRC 44704	01.08.98
	J.I. 0D0A8.AM		07.09.99
Factory Mutual Research Corp.	J.I. 0Y9Q5.AM	Wind Uplift FMRC 4470 - PA 114	04.01.98
IRT-Arcon, Inc.	00001 & 00002	Wind Uplift	04.05.00
	01-0136	PA 114	12.18.01
Exterior Research & Design, LLC	4674.11.01-1	TAS 114	11.21.01





**APPROVED ASSEMBLIES**

- Deck Type :** Lightweight Concrete, Insulated
- Deck Description:** Cellular or Aggregate Lightweight Concrete
- System Type A(1):** Anchor sheet mechanically fastened; one or more layers of insulation adhered with approved asphalt.
- Deck:** 18-22 ga steel deck shall be secured 6" o.c. to structural supports spaced a maximum of 5 ft on centers with 5/8" puddle welds.

**All General and System Limitations shall apply.**

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam Composite, ACFoam-II, , Barrier Board Plus, E'NRG'Y-1 Plus, E'NRG'Y-2 Plus, GAFTEMP® Composite, GAFTEMP Composite RA, GAFTEMP Composite RN, GAFTEMP® Isotherm R, GAFTEMP Isotherm RA, Isotherm RN, ISO-95, Composite Plus, GL, GW, E'NRG'Y-2, PSI-25, Pyrox, White Line, EnergyGuard Composite, EnergyGuard Composite RA, EnergyGuard, EnergyGuard RA Minimum 1.5" thick	N/A	N/A
BMCA High Density Wood Fiber, GAFTEMP® High Density Wood Fiber, GAFTEMP RecoverBoard, Wood Fiber, GAFTEMP® Fiberboard, Gypsum Board, BMCA GAFTEMP® Permalite® Minimum ½" thick	N/A	N/A
Fiberglas Minimum 15/16" 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 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down. GAF requires either a ply of GAFGLAS STRATAVENT® Eliminator Perforated laid dry or a layer of GAFTEMP® PERMALITE or wood fiber overlay board on all isocyanurate applications.

**Anchor sheet:** Install one ply of GAFGLAS® #75 Base Sheet, GAFGLAS #80 Ultima™ Base Sheet, STRATAVENT® Eliminator Perforated Nailable base sheet or RUBEROID® 20 mechanically fastened as described below;

**Fasteners:** GAFTITE (Drill-Tec) Base Sheet Fastener, FM-60 or FM-90 with FM-30 Plates or Olympic Base Sheet Fasteners at a fastener spacing of 9" o.c. at the 2" wide sidelaps and 9" o.c. in two equally spaced rows in the field of the base sheet.  
Or  
GAFTITE (Drill-Tec) Base Sheet Fastener, FM-60 or FM-90 with FM-30 Plates or Olympic Base Sheet Fasteners at a fastener spacing of 12" o.c. at the 2" wide sidelaps and 9" o.c. in three equally spaced rows in the field of the base sheet.



Base Sheet: One ply of GAFGLAS® Ply 4, GAFGLAS FlexPly™ 6, GAFGLAS® STRATAVENT® Eliminator Perforated, GAFGLAS #80 Ultima™ Base Sheet, RUBEROID® 20, RUBEROID Modified Base Sheet or GAFGLAS® #75 adhered to the insulation in a full mopping of an approved asphalt at an application rate of 25 lbs./sq. ± 15% or adhered in a strip or spot mopping of an approved asphalt; see General Limitation #4.

Ply Sheet: One or more plies GAFGLAS PLY 4®, GAFGLAS Flex Ply 6 sheet, #80 Ultima, RUBEROID Mop Smooth 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.

Cap Sheet: (Optional) One ply of GAFGLAS® 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.

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



**Deck Type :** Lightweight Concrete, Insulated

**Deck Description:** Cellular or Aggregate Lightweight Concrete

**System Type A(2):** Anchor sheet mechanically fastened; one or more layers of insulation adhered with approved asphalt.

**Deck:** 18-22 ga steel deck shall be secured 6" o.c. to structural supports spaced a maximum of 5 ft on centers with 5/8" puddle welds.

**All General and System Limitations apply.**

<b>Base or Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ACFoam-I, ACFoam Composite, Barrier Board Plus, E'NRG'Y-2, E'NRG'Y-1 Plus, E'NRG'Y-2 Plus, GAFTEMP® Composite, GAFTEMP Composite A, GAFTEMP Composite N, GAFTEMP Isotherm RA, Isotherm RN, ISO-95, Composite Plus, GL, GW, PSI-25, Pyrox, White Line, UltraGard Gold, GAFTEMP® Isotherm R, EnergyGuard Composite, EnergyGuard Composite RA, EnergyGuard, EnergyGuard RA</b> Minimum 1½" thick	N/A	N/A
<b>ACFoam-II,</b> Minimum 1¾" thick	N/A	N/A
<b>GAFTEMP® Permalite, Gypsum Board, BMCA High Density Wood Fiber, GAFTEMP® High Density Wood Fiber, GAFTEMP RecoverBoard, Wood Fiber, GAFTEMP® Fiberboard</b> Minimum ½" thick	N/A	N/A
<b>Fiberglas</b> Minimum 1 <sup>5</sup> / <sub>16</sub> " 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 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down. GAF requires either a ply of GAFGLAS STRATAVENT® Eliminator Perforated laid dry or a layer of GAFTEMP® PERMALITE or wood fiber overlay board on all isocyanurate applications.

**Anchor Sheet:** Install one ply of GAFGLAS® #75 Base Sheet, GAFGLAS #80 Ultima™ Base Sheet or GAFGLAS STRATAVENT® Eliminator Nailable mechanically fastened as described below.

**Fastening:** Any approved fasteners listed herein with a minimum 2 ¾" stress plates at a fastener spacing of 7" o.c. at the 3" wide sidelaps and 7" o.c. in two equally spaced rows in the field of the base sheet.



- Base Sheet: One ply of GAFGLAS® Ply 4, GAFGLAS® Ply 6®, GAFGLAS FlexPly™ 6, GAFGLAS #80 Ultima™ Base Sheet, RUBEROID® 20, RUBEROID Modified Base Sheet or GAFGLAS® #75 adhered to the insulation in a full mopping of an approved asphalt at an application rate of 25 lbs./sq. ± 15% or adhered in a strip or spot mopping of an approved asphalt; see General Limitation #4.
- Ply Sheet: One or more plies GAFGLAS PLY 4®, GAFGLAS Flex Ply 6 sheet, #80 Ultima, RUBEROID Mop Smooth 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.
- Cap Sheet: (Optional) One ply of GAFGLAS® 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: (Required if no cap sheet is used) Install one of the following:
1. GAF Special Roofing Bitumen with an application rate of 20 lbs./sq with an application rate of 1.5 gal./sq.; or GAF WEATHER COAT® Emulsion (Matrix 305 Fibered Emulsion) with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating (Matrix System Pro Aluminum Roof Coating Fibered 301) with an application rate of 1.5 gal./sq.
  2. Asphalt flood coat at an application rate of 60 lbs./sq. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
  3. Coat Surface Seal SB (Matrix 602 SB Coating), Top Coat MB Plus (Matrix 715 MB Coating), GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

Maximum Design Pressure: -75 psf (See General Limitation #7)



**Deck Type :** Lightweight Concrete, Non-insulated  
**Deck Description:** Cellular or aggregate lightweight concrete  
**System Type E(1):** Base sheet mechanically attached.  
**Deck:** 18-22 ga steel deck shall be secured 6" o.c. to structural supports spaced a maximum of 5 ft on centers with 5/8" puddle welds.

**All General and System Limitations shall apply.**

**Base Sheet:** Install one ply of GAFGLAS® #75 Base Sheet, GAFGLAS #80 Ultima™ Base Sheet or GAFGLAS STRATAVENT® Eliminator Nailable mechanically fastened as described below.

**Fasteners:** GAFTITE (Drill-Tec) Base Sheet Fastener, FM-60 or FM-90 with FM-30 Plates or Olympic Base Sheet Fasteners at a fastener spacing of 9" o.c. at the 2" wide sidelaps and 9" o.c. in two equally spaced rows in the field of the base sheet.

*(Maximum Design Pressure -45 psf, See General Limitation #7)*

Or

GAFTITE (Drill-Tec) Base Sheet Fastener, FM-60 or FM-90 with FM-30 Plates or Olympic Base Sheet Fasteners at a fastener spacing of 12" o.c. at the 2" wide sidelaps and 9" o.c. in three equally spaced rows in the field of the base sheet.

*(Maximum Design Pressure -45 psf, See General Limitation #7)*

Or

ES Products Twin Lok-Nails Fasteners fastened at a spacing of 9" o.c. at the 4" wide sidelaps and 9" o.c. in two equally spaced rows in the field of the base sheet.

*(Maximum Design Pressure -60 psf, See General Limitation #7)*

Or

Any approved fasteners listed herein with a minimum 2 3/4" stress plates at a fastener spacing of 7" o.c. at the 3" wide sidelaps and 7" o.c. in two equally spaced rows in the field of the base sheet.

*(Maximum Design Pressure -75 psf, See General Limitation #7)*

**Ply Sheet:** Two or more plies of GAFGLAS® PLY 4® or GAFGLAS FlexPly™ 6 ply sheet

Or

One or more plies of GAFGLAS #80 Ultima™, RUBEROID Mop Smooth 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.

**Cap Sheet:** (Optional) One ply of GAFGLAS® 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: (Required if no cap sheet is used) Install one of the following:

1. GAF Special Roofing Bitumen with an application rate of 20 lbs./sq with an application rate of 1.5 gal./sq.; or GAF WEATHER COAT® Emulsion (Matrix 305 Fibered Emulsion) with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating (Matrix System Pro Aluminum Roof Coating Fibered 301) with an application rate of 1.5 gal./sq.
2. Asphalt flood coat at an application rate of 60 lbs./sq.  $\pm$  20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
3. Top Coat Surface Seal SB (Matrix 602 SB Coating), Top Coat MB Plus (Matrix 715 MB Coating), GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

Maximum Design  
Pressure:

See Fastening Above



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**Deck Type :** Lightweight Concrete, Non-insulated

**Deck Description:** Celcore Lightweight Insulating Concrete

**System Type E(2):** Base sheet mechanically attached.

**Deck :** Structural Concrete deck or Min. 22 ga., Type B steel decking over ¼” thick steel supports spaced max. 6 ft o.c. attached 6” o.c. using min. 5/8” diameter puddle welds with washers or Traxx/5 fasteners. Deck side laps are attached 24” o.c. using Traxx/1 fasteners. Steel deck is covered with a Celcore lightweight concrete pour consisting of a 1/8” slurry coat, min. 2” thick Holey Board and a min. 2” thick top coat.

**All General and System Limitations shall apply.**

**Base Sheet:** Install one ply of GAFGLAS® #75 Base Sheet, GAFGLAS #80 Ultima™ Base Sheet or GAFGLAS STRATAVENT® Eliminator Nailable mechanically fastened as described below.

**Fasteners:** Drill-Tec (GAFTITE) CR 1.7 Base Sheet Fasteners and plates fastened at a spacing of 7” o.c. at the 3” wide sidelaps and 7” o.c. in two equally spaced rows in the field of the base sheet.

**Ply Sheet:** One or more plies of GAFGLAS® PLY 4®, GAFGLAS FlexPly™ 6 ply sheet, GAFGLAS #80 Ultima™, RUBEROID Mop Smooth 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.

**Cap Sheet:** (Optional) One ply of GAFGLAS® 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:** (Required if no cap sheet is used) Install one of the following:

1. GAF Special Roofing Bitumen with an application rate of 20 lbs./sq with an application rate of 1.5 gal./sq.; or GAF WEATHER COAT® Emulsion (Matrix 305 Fibered Emulsion) with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating (Matrix System Pro Aluminum Roof Coating Fibered 301) with an application rate of 1.5 gal./sq.
2. Asphalt flood coat at an application rate of 60 lbs./sq. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
3. Top Coat Surface Seal SB (Matrix 602 SB Coating), Top Coat MB Plus (Matrix 715 MB Coating), GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

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



**Deck Type :** Lightweight Concrete, Non-insulated

**Deck Description:** Elastizell Lightweight Insulating Concrete

**System Type E(3):** Base sheet mechanically attached.

**Deck :** Min. 22 ga., Type B steel decking over ¼" thick steel supports spaced max. 6 ft o.c. attached 6" o.c. using min. 5/8" diameter puddle welds with washers or Traxx/5 fasteners. Deck side laps are attached 18" o.c. using Traxx/1 fasteners. Steel deck is covered with a Range II Elastizell lightweight concrete pour consisting of a 1/8" slurry coat, min. 2" thick Holey Board and a min. 2" thick top coat.

**All General and System Limitations shall apply.**

**Base Sheet:** Install one ply of GAFGLAS #80 Ultima™ Base Sheet mechanically fastened as described below.

**Fasteners:** Drill-Tec (GAFTITE) CR 1.7 Base Sheet Fasteners and plates fastened at a spacing of 7" o.c. at the 3" wide sidelaps and 7" o.c. in two equally spaced rows in the field of the base sheet.

**Ply Sheet:** (Requires one ply of RUBEROID Mop Smooth or RUBEROID® 20) Optional one or more plies of GAFGLAS® PLY 4®, GAFGLAS FlexPly™ 6 ply sheet, GAFGLAS #80 Ultima™, RUBEROID Mop Smooth 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.

**Cap Sheet:** (Optional) One ply of GAFGLAS® 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:** (Required if no cap sheet is used) Install one of the following:

1. GAF Special Roofing Bitumen with an application rate of 20 lbs./sq with an application rate of 1.5 gal./sq.; or GAF WEATHER COAT® Emulsion (Matrix 305 Fibered Emulsion) with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating (Matrix System Pro Aluminum Roof Coating Fibered 301) with an application rate of 1.5 gal./sq.
2. Asphalt flood coat at an application rate of 60 lbs./sq. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
3. Top Coat Surface Seal SB (Matrix 602 SB Coating), Top Coat MB Plus (Matrix 715 MB Coating), GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

**Maximum Design**

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



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**Deck Type :** Lightweight Concrete, Non-insulated

**Deck Description:** Elastizell Lightweight Insulating Concrete

**System Type E(4):** Base sheet mechanically attached.

**Deck :** Structural Concrete Deck or Min. 22 ga., Type B steel decking over ¼” thick steel supports spaced max. 5 ft o.c. attached 6” o.c. using min. 5/8” diameter puddle welds with washers or Traxx/5 fasteners. Deck side laps are attached 24” o.c. using Traxx/1 fasteners. Steel deck is covered with a Range II Elastizell lightweight concrete pour consisting of a 1/8” slurry coat, min. 1” thick Holey Board and a min. 2” thick top coat.

**All General and System Limitations shall apply.**

**Base Sheet:** Install one ply of RUBEROID Mop Smooth, RUBEROID Mop Granule, RUBEROID SBS Heat-Weld Smooth or RUBEROID SBS Heat-Weld Granule with granular surfaces faced down with 4” heat welded sidelap and mechanically fastened as described below.

**Fasteners:** Drill-Tec #12 (GAFTITE) Fasteners and 3” plates fastened through lightweight concrete to the structural deck at a spacing of 12” o.c. at the 4” wide sidelaps and 12” o.c. in two equally spaced rows in the field of the base sheet.

**Ply Sheet:** (Requires one ply of RUBEROID Mop Smooth, RUBEROID Mop Granule, RUBEROID SBS Heat-Weld Smooth or RUBEROID SBS Heat-Weld Granule) Optional one or more plies of GAFGLAS® PLY 4®, GAFGLAS FlexPly™ 6 ply sheet, GAFGLAS #80 Ultima™, RUBEROID Mop Smooth 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.

**Cap Sheet:** (Optional) One ply of GAFGLAS® 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:** (Required if no cap sheet is used) Install one of the following:

1. GAF Special Roofing Bitumen with an application rate of 20 lbs./sq with an application rate of 1.5 gal./sq.; or GAF WEATHER COAT® Emulsion (Matrix 305 Fibered Emulsion) with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating (Matrix System Pro Aluminum Roof Coating Fibered 301) with an application rate of 1.5 gal./sq.
2. Asphalt flood coat at an application rate of 60 lbs./sq. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
3. Top Coat Surface Seal SB (Matrix 602 SB Coating), Top Coat MB Plus (Matrix 715 MB Coating), GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

**Maximum Design Pressure:** -97.5 psf (See General Limitation #7)



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**Deck Type :** Lightweight Concrete, Non-insulated

**Deck Description:** Elastizell (II Special Mix min 350 psi) with Zell-Crete Lightweight Insulating Concrete

**System Type F(1):** Base sheet adhered.

**Deck :** Structural Concrete Deck or Min. 22 ga., Type B steel decking over ¼" thick steel supports spaced max. 5 ft o.c. attached 6" o.c. using min. 5/8" diameter puddle welds with washers or Traxx/5 fasteners. Deck side laps are attached 24" o.c. using Traxx/1 fasteners. Deck surface shall be treated with Zell-Erator and allowed to dry prior to pouring Lightweight concrete. Steel deck is covered with a Range II Elastizell lightweight concrete pour consisting of a 1/8" slurry coat, min. 2" thick Holey Board and a min. 2" thick top coat. Lightweight insulating deck shall be primed with ASTM D 41 at an application rate of 1-2 gal/sq. prior to the installation of membrane.

**All General and System Limitations shall apply.**

**Base Sheet:** Install one ply of GAFGLAS Stratavent Eliminator Perforated laid dry over deck followed by one ply of RUBEROID MOP 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) One or more plies of GAFGLAS® PLY 4®, GAFGLAS FlexPly™ 6 ply sheet, GAFGLAS #80 Ultima™, RUBEROID Mop Smooth 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.

**Cap Sheet:** (Optional) One ply of GAFGLAS® 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:** (Required if no cap sheet is used) Install one of the following:

1. GAF Special Roofing Bitumen with an application rate of 20 lbs./sq with an application rate of 1.5 gal./sq.; or GAF WEATHER COAT® Emulsion (Matrix 305 Fibered Emulsion) with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating (Matrix System Pro Aluminum Roof Coating Fibered 301) with an application rate of 1.5 gal./sq.
2. Asphalt flood coat at an application rate of 60 lbs./sq. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.
3. Top Coat Surface Seal SB (Matrix 602 SB Coating), Top Coat MB Plus (Matrix 715 MB Coating), GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

Maximum Design  
Pressure:

-112.5 psf (See General Limitation #9)



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## **LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:**

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine 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 Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 250 psi.



## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

**END OF THIS ACCEPTANCE**



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