



**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)**

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**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 BCCO (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. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO 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 South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

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

**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 consists of pages 1 through 23.

The submitted documentation was reviewed by Frank Zuloaga, RRC



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## ROOFING SYSTEM APPROVAL

Category: Roofing  
Sub-Category: BUR  
Deck Type: Wood  
Maximum Design Pressure -75 psf  
Fire Classification: See General Limitation #1

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

<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.
GAFGLAS Ply 4®	39.37" (1 meter) wide	ASTM D 2178	Type IV 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® 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	Fiber glass 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 489 D 3672	Fiber glass base sheet impregnated and coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating.
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.
RUBEROID MOP Smooth	39.37" (1 meter) wide	ASTM D 6298 ASTM D 5147	Non-woven polyester mat coated with polymer modified asphalt and smooth surfaced.
RUBEROID® MOP PLUS	39.37" (1 meter) wide	ASTM D 6163 ASTM D 5147	Non-woven polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
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	Heavy duty, polyester reinforced, asphalt modified bitumen membrane, granule surface.
RUBEROID® TORCH PLUS	39.37" (1 meter) wide	ASTM D 6222 ASTM D 5147	Heavy duty, polyester reinforced, asphalt modified bitumen membrane, granule surface



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
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® 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	1sq. roll 101 lbs.	ASTM D 5147	Woven fiberglass mat coated with Polymer modified asphalt and surfaced with aluminum, copper or stainless steel foil.
RUBEROID® ULTRACLAD® SBS	109. Roll 101 lbs.	ASTM D 5147	Woven fiberglass mat coated with Polymer modified asphalt surfaced with aluminum, copper or stainless steel foil.
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
Shingle-Mate™ Underlayment	4 sq. roll 30 lbs.		Fiberglass reinforced shingle underlayment



**TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:**

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Pyrox	various	PA 110	Polyisocyanurate foam insulation	Apache Products Co. (with current PCA)
Asphalt		ASTM D 312	Type III or IV Hot asphalt bitumin adhesive	generic
Asphalt Primer		ASTM D 41	Asphalt Primer	generic
Polyethylene	4 mil min.		Vapor barrier / Air barrier □	generic
Red Rosin	various		Rosin paper for barrier layer on wood decks	generic
MB aluminum roof coating		PA 121	Aluminum roof coating	Grundy Industries (with current PCA)
Super Prep II		PA 121	Roof coating	Thermo-Materials, Inc. (with current PCA)

**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
GAFTEMP Isotherm RA, RN & Composite	Polyisocyanurate foam insulation	GAF Materials Corp.
GAFTEMP Tapered Isotherm RA, RN & Composite	Tapered polyisocyanurate foam	GAF Materials Corp.
GAFTEMP® Composite A & N	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.	GAF Materials Corp.
GAFTEMP Tapered Composite A & N	Tapered Polyisocyanurate/wood fiberboard composite	GAF Materials Corp.
(BMCA)GAFTEMP® Fiberboard	Fiberboard insulation.	GAF Materials Corp.
GAFTEMP® Permalite	Perlite insulation board.	GAF Materials Corp.
GAFTEMP PERMALITE® Tapered Roof Insulation	Tapered perlite board	GAF Materials Corp.
GAFTEMP GAFCANT™	Cut perlite board	GAF Materials Corp.
GAFTEMP Recover Board	Perlite recover board	GAF Materials Corp.
GAFTEMP GAFEDGE™ Tapered Edge Strip	Tapered perlite board	
GAFTEMP® High Density Fiberboard	High density wood fiberboard insulation.	GAF Materials Corp.
PYROX	Polyisocyanurate foam insulation	Apache Products Co.
Nail-Line	Polyisocyanurate foam insulation	Apache Products Co.



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**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
White Line	Polyisocyanurate foam insulation	Apache Products Co.
ACFoam I, II & Composite	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
Dens Deck	Water resistant gypsum board	G-P Gypsum Corp.
E'NRG'Y-2 & E'NRG'Y-2 PLUS, UltraGard Gold	Polyisocyanurate foam insulation	Johns Manville
FiberGlass Roof Insulation	Glass fiber/Mineral fiber insulation	Johns Manville
Structodek	Wood fiber insulation board	Masonite.
Multi-Max & FA Paroc Base Board Paroc Cap Board	Polyisocyanurate roof insulation Rockwool insulation	RMax, Inc. Partek, Inc. (with current PCA)

**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®) 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.



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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>
6.	Dekfast Fasteners #12, #14 & #15	Insulation fastener for wood, steel and concrete decks		Construction Fasteners Inc.
7.	Dekfast Hex Plate	Galvalume hex stress plate.	2 7/8" x 3 1/4"	Construction Fasteners Inc.
8.	Dekfast Lock Plate	Polypropylene locking plate.	3" x 3 1/4"	Construction Fasteners Inc.
9.	#12 Roofgrip Fasteners	Insulation fastener for wood and steel.		ITW Buildex Corp.
10.	Metal Plate	Galvalume stress plate.	3" round 3" square	ITW Buildex Corp.
11.	Gearlok Plastic Plate	Polypropylene round plate	3.2"	ITW Buildex Corp.
12.	Glasfast Fastener □	Insulation fastener assembly with recessed plastic plate		Johns Manville
13.	Olympic Fastener #12 & #14	Insulation fastener		Olympic Manufacturing Group, Inc.
14.	Olympic Fastener ASAP	Pre-assembled Insulation fastener and plate		Olympic Manufacturing Group, Inc.
15.	Olympic Polypropylene	Polypropylene plastic plate	3.25" round	Olympic Manufacturing Group, Inc.
16.	Olympic G-2	3.5" round galvalume AZ55 steel plate	3.5" round	Olympic Manufacturing Group, Inc.
17.	Olympic Standard	3" round galvalume AZ50 steel plate	3" round	Olympic Manufacturing Group, Inc.
18.	Insul-Fixx Fastener	Insulation fastener for steel and wood decks		SFS/Stadler
19.	Insul-Fixx S Plate	3" round galvalume AZ50 steel plate	3" round	SFS/Stadler
20.	Insul-Fixx P Plate	3" round polyethylene stress plate	3" round	SFS/Stadler



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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>
21.	Tru-Fast	Insulation fastener for steel and wood decks		The Tru-Fast Corp.
22.	Tru-Fast Plates	3" round galvalume AZ55 steel plate	3" round	The Tru-Fast Corp.
23.	Tru-Fast Plates	Polyethylene plastic plate	3" round	The Tru-Fast Corp.

**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 Corporation	FMRC 1996	Current Insulation Attachment Requirements	01.01.96
Factory Mutual Research Corporation	J.I. 2B8A4.AM	Wind Uplift	07.02.97
Factory Mutual Research Corporation	J.I. 3B9Q1.AM	FMRC 44704	01.08.98
Factory Mutual Research Corporation	J.I. 0D0A8.AM	Wind Uplift	07.09.99
Factory Mutual Research Corporation	J.I. 0D1A8.AM	Wind Uplift	07.29.94
Factory Mutual Research Corporation	J.I. 0Y9Q5.AM	FMRC 4470 - PA 114	04.01.98
Factory Mutual Research Corporation	J.I. 3X3A2.AM	Wind Uplift	08.02.94
Factory Mutual Research Corporation	J.I. 0Y9Q5.AM	FMRC 4470 - PA 114	07.29.94
Factory Mutual Research Corporation	J.I. 0Y9Q5.AM	Wind Uplift	07.29.94
Dynatech Engineering Corporation	#3600.02.95-1	Wind Uplift	02.02.95
Dynatech Engineering Corporation	#4482.02.95-1	Wind Uplift	02.02.95
Dynatech Engineering Corporation	#4482.02.95-1	PA 114	
Dynatech Engineering Corporation	#4482.02.95-1	PA 114	



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## APPROVED ASSEMBLIES

- Deck Type 1I:** Wood, Insulated, New Construction or Reroof
- Deck Description:**  $\frac{19}{32}$ " or greater plywood or wood plank
- System Type A(1):** Anchor sheet mechanically fastened, all layers of insulation adhered with approved asphalt.

All General and System Limitations shall apply.

One or more layers of any of the following insulations.

Insulation Layer (Table 2) (When applicable: Steel plate only =S, plastic plate only =P)	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam-I, E'NRG'Y 2, GAFTEMP® Isotherm R, E'NRG'Y 2 Plus, GAFTEMP Isotherm RA, GAFTEMP Isotherm RN, GAFTEMP Composite, GAFTEMP Composite A, GAFTEMP Composite N, ISORoc, GAFTEMP® Tapered (Min. 1" thick)	N/A	N/A
High Density Wood Fiber, GAFTEMP® High Density Wood Fiber, GAFTEMP RecoverBoard, Wood Fiber, GAFTEMP® Fiberboard (Min. ½" thick)	N/A	N/A
Perlite, GAFTEMP® Permalite®, Permalite Tapered, Paroc (Min. ¾" thick) (¼" for Tapered)	N/A	N/A
Fiberglas (Min. $\frac{15}{16}$ " thick)	N/A	N/A
Permalite Tapered Roof Insulation, Tapered Isotherm R, Tapered Isotherm RA, Tapered IsothermRN, GAFTEMP Composite Tapered, GAFTEMP Composite A Tapered, GAFTEMP Composite N Tapered (Min. ¼" 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® perforated laid dry or a layer of GAFTEMP® PERMALITE or wood fiber overlay board on all isocyanurate applications.

**Anchor sheet:** GAFGLAS® Ply 4®, Ply 6®, GAFGLAS Flex Ply™ 6, #75 Base Sheet, GAFGLAS #80 Ultima™ Base Sheet, STRATAVENT® Eliminator Perforated Nailable, RUBEROID Modified Base Sheet, RUBEROID Mop Smooth or RUBEROID® 20 base sheet applied to the deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the lap staggered in two rows 12" in the field. Base sheet shall serve as anchor sheet for attachment of insulation



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- Base Sheet: (Optional) Install one ply of GAFGLAS® #75, GAFGLAS #80 Ultima™ Ultra Base Sheet, GAFGLAS STRATAVENT® Eliminator Perforated, RUBEROID Modified Base Sheet, RUBEROID Mop Smooth or RUBEROID® 20 directly over the top layer of insulation. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq; (see General Limitation #4).
- Ply Sheet: One or more plies GAFGLAS PLY 4®, GAFGLAS® PLY 6® Ply, GAFGLAS Flex Ply 6 sheet, #80 Ultima 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 with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating 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, Top Coat MB Plus, GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.
- Maximum Design Pressure -45 psf (See General Limitation #7)



**Deck Type 1:** Wood, Non-insulated New Construction or Reroof

**Deck Description:**  $\frac{19}{32}$ " or greater plywood or wood plank decks

**System Type A(2):** Base sheet mechanically fastened.

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

**Base Sheet:** GAFGLAS® #75, GAFGLAS #80 Ultima Base Sheet, GAFGLAS® PLY 4®, GAFGLAS® PLY 6®, GAFGLAS FlexPly, GAFGLAS® STRATAVENT® Eliminator Perforated Nailable, RUBEROID Modified Base Sheet, RUBEROID Mop Smooth or RUBEROID® 20 applied to the deck with approved annular ring shank nails and minimum  $1\frac{5}{8}$ " tin caps at a fastener spacing of 9" o.c. at the lap, 12" o.c. in two rows staggered along the center line of the sheet in the field.

**Ply Sheet:** Two or more plies of GAFGLAS® PLY 4®, GAFGLAS FlexPly 6, GAFGLAS® PLY 6® ply sheet, #80 Ultima, 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 WEATHER COAT® Emulsion with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating 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, Top Coat MB Plus, GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

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



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**Deck Type 1:** Wood, Non-Insulated, New Construction, Reroof

**Deck Description:**  $\frac{19}{32}$ " or greater plywood or wood plank

**System Type A(3):** Base sheet mechanically fastened.

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

**Base sheet:** GAFGLAS® #75 Base Sheet, GAFGLAS #80 Ultima Base Sheet, STRATAVENT® Eliminator Perforated Nailable, RUBEROID Mop Smooth or RUBEROID® 20 base sheet is applied to the deck with 2" side laps with (Drill-Tec) GAFTITE #12 or #14 Screws and 3" Plates 12" on center, in 3 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 12" OC in the field of the sheet.

**Ply Sheet:** One or more plies GAFGLAS PLY 4® GAFGLAS FlexPly™6, or GAFGLAS® PLY 6® Ply, GAFGLAS FlexPly 6 sheet, #80 Ultima, 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 with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating 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, Top Coat MB Plus, GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

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



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**Deck Type II:** Wood, Non-Insulated, New Construction, or Reroof

**Deck Description:**  $\frac{19}{32}$ " or greater plywood or wood plank

**System Type A(4):** Base sheet mechanically fastened.

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

**Base sheet:** GAFGLAS® #75 Base Sheet, GAFGLAS #80 Ultima™ Base Sheet, STRATAVENT® Eliminator Perforated Nailable, RUBERROID Mop Smooth or RUBERROID® 20 base sheet applied to the deck with 2" side laps with G(Drill-Tec) GAFTITE #12 or #14 Screws and 3" Plates, 12" on center, in 4 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 9" OC in the field of the sheet.

**Ply Sheet:** One or more plies GAFGLAS PLY 4®, or GAFGLAS® PLY 6® Ply, GAFGLAS FlexPly™ 6 sheet, #80 Ultima or RUBERROID 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 with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating 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, Top Coat MB Plus, GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

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



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**Deck Type 1I:** Wood, Non-Insulated, New Construction, or Reroof

**Deck Description:**  $\frac{19}{32}$ " or greater plywood or wood plank

**System Type A(5):** Base sheet mechanically fastened.

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

**Base sheet:** GAFGLAS® #75 Base Sheet, GAFGLAS #80 Ultima™ Base Sheet, STRATAVENT® Eliminator Perforated Nailable, RUBEROID Mop Smooth or RUBEROID® 20 base sheet is applied to the deck with 2" side laps with (Drill-Tec) GAFTITE #12 or #14 Screws and 3" Plates 8" on center, in 4 rows. One row is in the 2" side lap. The other rows are equally spaced approximately 9" OC in the field of the sheet.

**Ply Sheet:** One or more plies GAFGLAS PLY 4, GAFGLAS® PLY 6®, GAFGLAS FlexPly™ 6 sheet, RUBEROID 20 or 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.

**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 with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating 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, Top Coat MB Plus, GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

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



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**Deck Type II:** Wood, Insulated, New Construction, or Reroof

**Deck Description:**  $\frac{19}{32}$ " or greater plywood or wood plank

**System Type B:** Optional base sheet laid dry; base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

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

One or more layers of any of the following insulations.

<b>Insulation for Base Layer (Table 2)</b> (When applicable: Steel plate only =S, plastic plate only =P)	<b>Insulation Fasteners</b> (Table 3)	<b>Fastener</b> <b>Density/ft<sup>2</sup></b>
ACFoam-I, GAFTEMP® Isotherm R (Min. 1.3" thick)	1, 2, 6, 9, 13, 14 & 21S	1:3 ft <sup>2</sup>
E'NRG'Y 2, GAFTEMP Isotherm RN (Min. 1.4" thick)	1, 2, 6S, 9, 13, 14 & 21S	1:3 ft <sup>2</sup>
E'NRG'Y 2 Plus, GAFTEMP Composite N (Min. 1.5 thick)	6S, 9, 18 & 21S	1:3 ft <sup>2</sup>
Perlite, GAFTEMP® PERMALITE® (Min. ¾" thick)	1S(3.5"), 6S, 9, 13, 14 & 21S	1:2 ft <sup>2</sup>
Fiberglas (Min. $\frac{15}{16}$ " thick)	1, 2, 6, 9, 12, 13, 14 & 21S	1:2.67 ft <sup>2</sup>
Wood Fiber, GAFTEMP® Fiberboard, GAFTEMP High Density Fiberboard (Min. 1" thick)	1, 2, 6, 13, 14 & 21S	1:4 ft <sup>2</sup>

**Note:** Base layer shall be mechanically attached with fasteners and density described. 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). GAF requires either a ply of GAFGLAS STRATAVENT® perforated laid dry or a layer of GAFTEMP® PERMALITE or wood fiber overlay board on all isocyanurate applications.

<b>Insulation for Top Layer (Table 2)</b> (When applicable: Steel plate only =S, plastic plate only =P)	<b>Insulation Fasteners</b> (Table 3)	<b>Fastener</b> <b>Density/ft<sup>2</sup></b>
Any of the insulations listed for Base Layer, above.	N/A	N/A
High Density Wood Fiber, GAFTEMP® High Density Wood Fiberboard, PERMALITE® Recover Board (Min. ½" thick)	N/A	N/A
Paroc (Min. ¾" thick)	N/A	N/A

**Note:** Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.



- Base Sheet: (Optional) Install one ply of GAFGLAS® #75, GAFGLAS #80 ULTIMA™ Base Sheet, GAFGLAS® PLY 4®, GAFGLAS® PLY 6®, GAFGLAS Flex Ply 6, GAFGLAS® STRATAVENT® Eliminator Perforated(laid dry), RUBEROID Modified Base Sheet, RUBEROID Mop Smooth or RUBEROID® 20 directly over the top layer of insulation. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq; (see General Limitation #4).
- Ply Sheet: Two or more plies of GAFGLAS® PLY 4®, GAFGLAS® PLY 6®, GAFGLAS FlexPly™ 6 ply sheet, #80 Ultima 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. (See specification number for appropriate number of plies).
- 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. (See GAF application instructions for approved method of installation).
- Surfacing: (Required if no cap sheet is used) Install one of the following:)
1. GAF WEATHER COAT® Emulsion with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating 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, Top Coat MB Plus, GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.
- Maximum Design Pressure: -45 psf (See General Limitation #7)



**Deck Type II:** Wood, Insulated, New Construction or Reroof

**Deck Description:**  $1\frac{9}{32}$ " or greater plywood or wood plank

**System Type C:** One or more layers of insulation simultaneously attached; Base layer optional.

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

One or more layers of any of the following insulations.

<b>Insulation for Base Layer (Table 2)</b> (When applicable: Steel plate only =S, plastic plate only =P)	<b>Insulation Fasteners</b> (Table 3)	<b>Fastener</b> <b>Density/ft<sup>2</sup></b>
ACFoam-I, GAFTEMP® Isotherm R, GAFTEMP Isotherm RA, GAFTEMP Isotherm RN (Min. 1.3" thick)	N/A	N/A
E'NRG'Y 2 (Min. 1.4" thick)	N/A	N/A
ISORoc, E'NRG'Y 2 Plus, GAFTEMP Composite A, GAFTEMP Composite N (Min. 1.5" thick)	N/A	N/A
Perlite, GAFTEMP® Permalite PERMALITE® (Min. $\frac{3}{4}$ " thick)	N/A	N/A
Fiberglas (Min. $1\frac{5}{16}$ " thick)	N/A	N/A
Wood Fiber, GAFTEMP® Fiberboard, GAFTEMP High Density Fiberboard (Min. 1" 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. GAF requires either a ply of GAFGLAS STRATAVENT® perforated laid dry or a layer of GAFTEMP® PERMALITE or wood fiber overlay board on all isocyanurate applications.

<b>Insulation for Top Layer (Table 2)</b> (When applicable: Steel plate only =S, plastic plate only =P)	<b>Insulation Fasteners</b> (Table 3)	<b>Fastener</b> <b>Density/ft<sup>2</sup></b>
ACFoam-I, GAFTEMP® Isotherm R (Min. 1.3" thick)	1, 2, 6, 9, 13, 14 & 21S	1:3 ft <sup>2</sup>
E'NRG'Y 2, GAFTEMP Isotherm RN (Min. 1.4" thick)	1, 2, 6S, 9, 13, 14 & 21S	1:3 ft <sup>2</sup>
E'NRG'Y 2 Plus, GAFTEMP Composite N (Min. 1.5 thick)	6S, 9, 18 & 21S	1:3 ft <sup>2</sup>
Perlite, GAFTEMP® PERMALITE® (Min. $\frac{3}{4}$ " thick)	1S(3.5"), 6S, 9, 13, 14 & 21S	1:2 ft <sup>2</sup>
Fiberglas (Min. $1\frac{5}{16}$ " thick)	1, 2, 6, 9, 12, 13, 14 & 21S	1:2.67 ft <sup>2</sup>



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Wood Fiber, GAFTEMP® Fiberboard, GAFTEMP High Density Fiberboard (Min. 1" thick) 1, 2, 6, 13, 14 & 21S 1:4 ft²

**Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment. GAF requires either a ply of GAFGLAS STRATAVENT® Eliminator Perforated laid dry or a layer of GAFTEMP® PERMALITE or wood fiber overlay board on all isocyanurate applications.**

- Base Sheet: (Optional) Install one ply of GAFGLAS® #75, GAFGLAS #80 Ultima™ Base Sheet, GAFGLAS® PLY 4®, GAFGLAS® PLY 6®, GAFGLAS FlexPly™ 6, GAFGLAS® STRATAVENT® Eliminator Perforated (laid dry), RUBEROID Modified Base Sheet, RUBEROID Mop Smooth or RUBEROID® 20 directly over the top layer of insulation. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.. If base sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval the use of an overlay board is approved; see General Limitation #4.
- Ply Sheet: Two or more plies of GAFGLAS® PLY 4®, GAFGLAS® PLY 6®, GAFGLAS FlexPly 6 ply sheet, #80 Ultima 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 WEATHER COAT® Emulsion with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating 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, Top Coat MB Plus, GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.
- Maximum Design Pressure: -45 psf (See General Limitation #7)



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**Deck Type 1I:** Wood, Insulated, New Construction or Reroof

**Deck Description:** <sup>19</sup>/<sub>32</sub>" or greater plywood or wood plank

**System Type D(1):** Insulation and Base sheet simultaneously

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

One or more layers of any of the following insulations.

**Approved Type(s):** ACFoam-I, E'NRG'Y 2, GAFTEMP® Isotherm R, E'NRG'Y 2 Plus, GAFTEMP Isotherm RA, GAFTEMP Isotherm RN, GAFTEMP Composite, GAFTEMP Composite A, GAFTEMP Composite N loosely laid with firmly butted joints. Minimum thickness, 1.3". GAFTEMP High Density Fiberboard, GAFTEMP Fiberboard, minimum thickness 1"

**Base sheet:** GAFGLAS® #75 Base Sheet, GAFGLAS #80 Ultima™ Base Sheet, STRATAVENT® Eliminator Perforated Nailable, RUBEROID Mop Smooth or RUBEROID® 20 base sheet applied over the loose laid insulation with 2" side laps. (Drill-Tec) GAFTITE #12 or #14 Screws and 3" Plates are installed through the base sheet and insulation in 3 rows 12" on center. One row is in the 2" side lap. The other rows are equally spaced approximately 12" OC in the field of the sheet.

**Ply Sheet:** One or more plies GAFGLAS PLY 4®, GAFGLAS® PLY 6® Ply, GAFGLAS FlexPly 6 sheet, #80 Ultima 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 lb./sq.; or GAF WEATHER COAT® Emulsion with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating 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, Top Coat MB Plus, GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

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



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**Deck Type 1I:** Wood, Insulated, New Construction or Reroof

**Deck Description:**  $\frac{19}{32}$ " or greater plywood or wood plank

**System Type D(2):** Insulation and Base sheet mechanically fastened.

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

One or more layers of any of the following insulations.

**Approved Type(s):** AC Foam-I, E'NRG'Y 2, GAFTEMP® Isotherm R, E'NRG'Y 2 Plus, GAFTEMP Isotherm RA, GAFTEMP Isotherm RN, GAFTEMP Composite, GAFTEMP Composite A, GAFTEMP Composite N loosely laid with firmly butted joints. Minimum thickness, 1.3" GAFTEMP High Density Fiberboard, GAFTEMP Fiberboard, minimum thickness 1".

**Base sheet:** GAFGLAS® #75 Base Sheet, GAFGLAS #80 Ultima™ Base Sheet, STRATAVENT® Eliminator Perforated Nailable, RUBEROID Mop Smooth or RUBEROID® 20 base sheet applied to the deck with 2" side laps with (Drill-Tec) GAFTITE #12 or #14 Screws and 3" Plates in 4 rows 12" on center. One row is in the 2" side lap. The other rows are equally spaced approximately 9" oc in the field of the sheet.

**Ply Sheet:** One, two, or three plies GAFGLAS PLY 4®, GAFGLAS® PLY 6® Ply, GAFGLAS FlexPly™ 6 sheet, #80 Ultima 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 lb./sq; or GAF WEATHER COAT® Emulsion with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating 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, Top Coat MB Plus, GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.
- 4.

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



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**Deck Type 1I:** Wood, Insulated, New, Recover or Reroof

**Deck Description:** <sup>19</sup>/<sub>32</sub>" or greater plywood or wood plank

**System Type D(3):** Base sheet and insulation simultaneously mechanically fastened.

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

One or more layers of any of the following insulations.

**Approved Type(s):** AC Foam-I, E'NRG'Y 2, GAFTEMP® Isotherm R, E'NRG'Y 2 Plus, GAFTEMP Isotherm RA, GAFTEMP Isotherm RN, GAFTEMP Composite, GAFTEMP Composite A, GAFTEMP Composite N loosely laid with firmly butted joints. Minimum thickness, 1.3" GAFTEMP High Density Fiberboard, GAFTEMP Fiberboard, minimum thickness 1"

**Base sheet:** GAFGLAS® #75 Base Sheet, GAFGLAS #80 Ultima™ Base Sheet, STRATAVENT® Eliminator Perforated Nailable, RUBEROID Mop Smooth or RUBEROID® 20 base sheet applied over the loose laid insulation with 2" side laps. (Drill-Tec) GAFTITE #12 or #14 Screws and 3" Plates are installed through the base sheet and insulation in 4 rows 8" on center. One row is in the 2" side lap. The other rows are equally spaced approximately 9" OC in the field of the sheet.

**Ply Sheet:** One or more plies GAFGLAS PLY 4®, GAFGLAS® PLY 6® Ply GAFGLAS FlexPly™ 6 sheet, #80 Ultima 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 lb./sq; or GAF WEATHER COAT® Emulsion with an application rate of 3 gal./sq.; or GAF Premium Fibered Aluminum Roof Coating 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, Top Coat MB Plus, GAF WeatherCote or WeatherCote LOW-VOC applied at rate of 1-1.5 gal/sq.

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



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<b>Membrane Type:</b>	BUR
<b>Deck Type 1:</b>	Wood, Non-insulated
<b>Deck Description:</b>	<sup>19</sup> / <sub>32</sub> " or greater plywood or wood plank
<b>System Type E:</b>	Tile Underlayment, Base Sheet mechanically attached.
<b>Anchor sheet:</b>	ASTM D 226 Types II, ASTM D 2626, Ultima™ 80 Base Sheet, RUBEROID Mop Smooth or RUBEROID® 20, applied with a minimum 4" side lap and a minimum 6" end lap. Base sheet may be applied at a right angle (90°) to the slope of the deck with approved annular ring shank nails and tin caps at a fastener spacing of 6" o.c. at the 4" side lap, and two 12" o.c. staggered rows along the center of the sheet.
<b>Ply Sheet:</b>	(Optional) one, or more plies GAFGLAS PLY 4®, or GAFGLAS® PLY 6® Ply or GAFGLAS FlexPly™ 6 sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
<b>Cap Sheet:</b>	ASTM D 249 Mineral Surface capsheet applied with a minimum side lap of 2" and a minimum end lap of 6". Cap sheet may be applied at a right angle (90°) to the slope of the deck* solidly adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. Cap sheet shall be back nailed in accordance with RAS 118, 119, 120.
	* Membranes may also be installed parallel to the slope of the roof (i.e. strapping). If membrane is strapped, then anchor sheet and ply sheet must also be strapped.
<b>Maximum Design Pressure:</b>	In accordance with Tile Assembly Manufactures Notice of Acceptance.
<b>Maximum Fire Classification:</b>	Must comply with Tile Assembly Fire Classification
<b>Maximum Slope:</b>	In accordance with applicable Building Code



## **WOOD DECK SYSTEM LIMITATIONS:**

- 1 A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

## **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.)**

**END OF THIS ACCEPTANCE**



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