



**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 Cementitious Wood Fiber 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 revises NOA #03-0501.07 and consists of pages 1 through 17.
The submitted documentation was reviewed by Frank Zuloaga, RRC



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ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	BUR
Deck Type:	Cemetitious Wood Fiber
Maximum Design Pressure	-82.5 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 203)	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.
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
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



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<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
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.
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	Non-woven polyester mat coated with fire retardant polymer modified asphalt surfaced with mineral granules.
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.
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



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
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.
Matrix 303 Select Fibered Aluminum	5 gallons	ASTM D 2824	Fibered aluminum coating.
Matrix 304 Select Non-Fibered	5 gallons	ASTM D2824,	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

Product Name	Product Description	Manufacturer (With Current NOA)
BMCA EnergyGuard, GAFTEMP Isotherm R, RA, RN & Composite, EnergyGuard RA	Polyisocyanurate foam insulation	GAF Materials Corp.
GAFTEMP® Composite, Composite A & N	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.	GAF Materials Corp.
(BMCA EnergyGuard) GAFTEMP® Fiberboard	Fiberboard insulation.	GAF Materials Corp.
(BMCA EnergyGuard) GAFTEMP® Perlite	Perlite insulation board.	GAF Materials Corp.
GAFTEMP GAFcant™ (BMCA Cant Strip)	Cut perlite board	GAF Materials Corp.
GAFTEMP Perlite Recover Board	Perlite recover board	GAF Materials Corp.
GAFTEMP GAFEDGE™ Tapered Edge Strip (BMCA Tapered Edge Strip)	Tapered perlite board	GAF Materials Corp.
(BMCA EnergyGuard) GAFTEMP® High Density Fiberboard	High density wood fiberboard insulation.	GAF Materials Corp.
BMCA Dens Deck	Water resistant gypsum board	BMCA
BMCA EnergyGuard, EnergyGuard RA	Polyisocyanurate foam insulation	BMCA
BMCA Composite EnergyGuard, RA, RN	Polyisocyanurate/wood fiberboard composite	BMCA
PYROX	Polyisocyanurate foam insulation	Apache Products Co.
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
EPS	Extruded polystyrene insulation	Generic
Type X Gypsum	Fire resistant rated gypsum	Generic
Dens Deck	Water resistant gypsum board	G-P Gypsum Corp.
ENRGY-2 & ENRGY-2 PLUS, UltraGard Gold	Polyisocyanurate foam insulation	Johns Manville
FiberGlas Roof Insulation	Glass fiber/Mineral fiber insulation	Johns Manville
ISORoc	Polyisocyanurate foam / rockwool composite insulation	Johns Manville
Structodeck	Wood fiber insulation board	Masonite.
Multi-Max & FA	Polyisocyanurate roof insulation	RMax, Inc.



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APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Paroc Base Board Paroc Cap Board	Rockwool insulation	Partek, Inc.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec II NTB	Glass reinforced Nylon insulation fastener for gypsum & CWF decks with barbs.		BMCA
2.	Drill-Tec NTB Plate	Galvalume stress plate	3" round	BMCA
3.	Drill-Tec CR 1.2 Base Sheet Fastener	Base sheet fastening only		BMCA
4.	NTB Magnum	Glass reinforced Nylon insulation fastener for gypsum & CWF decks with barbs.		Olympic Mfg. Group, Inc.
5.	NTB Plate	Galvalume AZ55 plate for use with N.T.B. fasteners	3" round	Olympic Mfg. Group, Inc.
6.	Olympic CR 1.2 Base Sheet Fastener	Base sheet fastening only		Olympic Mfg. Group, Inc.
7.	Twin Loc-Nail	Base sheet fastener with intergrated Plate.	1.8" long w/ 2.7" dia. plate	ES Products, Inc.
8.	Powerlite	Insulation fastener for CWF and Gypsum decks.		Powers Fasteners, Inc.
9.	Powerlite Plates	3" round galvalume AZ55 steel plate	3" round	Powers Fasteners, Inc.
10.	Powerlite Lap Plates	2" round galvalume AZ55 steel plate	2" round	Powers Fasteners, Inc.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
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. 0D1A8.AM	Wind Uplift	07.29.94
	J.I. 0Y9Q5.AM	FMRC 4470 - PA 114	04.01.98
Underwriters Laboratories, Inc.	R1306, 00NK07638	UL 790 - PA 114	07.17.00



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<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Dynatech Engineering Corp.	#3600.02.95-1	Wind Uplift	02.02.95
IRT-ARCON, Inc.	#4482.02.95-1	PA 114	
	02-026	TAS 114	07.26.02,



APPROVED ASSEMBLIES

- Deck Type:** Cementitious Wood Fiber, Insulated
- Deck Description:** Cementitious wood fiber
- System Type A:** 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	Insulation Fasteners (Table 3)	Fastener Density/ft²
ACFoam-I, ISORoc, AC-Foam II, ENRGY 2, Iso 95 +, Isotherm-R, Isotherm RA, Isotherm RN ENRGY 2 Plus, Isotherm RA, Isotherm RN, GAFTEMP® Composite, Composite A, Composite N BMCA EnergyGuard Iso, Wood Fiber, GAFTEMP® Fiberboard, BMCA EnergyGuard Fiberboard, BMCA EnergyGuard, BMCA EnergyGuard RA, RN, BMCA EnergyGuard Composite, Composite A, Composite N Minimum 1" thick	N/A	N/A
BMCA EnergyGuard High Density Fiberboard, High Density Fiberboard Minimum ½" thick	N/A	N/A
Paroc, Perlite, GAFTEMP® Permalite, BMCA EnergyGuard Permalite Minimum ¾" 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 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down. GAF requires either a ply of GAFGLAS STRATAVENT® Eliminator Perforated laid dry or a layer of BMCA EnergyGuard PERLITE® or wood fiber overlay board on all isocyanurate applications.

Anchor Sheet: Install one ply of GAFGLAS® #75, GAFGLAS #80 Ultima™ Base Sheet, GAFGLAS® Ply 4®, GAFGLAS Flex Ply™ 6, GAFGLAS® STRATAVENT® Eliminator Nailable, RUBEROID® 20, RUBEROID® 20, RUBEROID SBS Heat-Weld™ Smooth or RUBEROID SBS Heat-Weld 25 base sheet mechanically fastened with any approved cementitious wood fiber fastener listed herein. Fastened at 6" o.c. at the 4" side lap and in two 12" o.c. staggered rows in the field.



Base Sheet: (Optional) Install one ply of GAFGLAS® #75, GAFGLAS #80 Ultima Base Sheet, GAFGLAS Flex Ply™ 6, GAFGLAS STRATAVENT® Eliminator Perforated, RUBEROID® Modified Base Sheet, RUBEROID MOP Smooth, RUBEROID® 20, RUBEROID SBS Heat-Weld Smooth or RUBEROID SBS Heat-Weld 25 directly to the insulated substrate. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: One or more plies GAFGLAS PLY 4®, GAFGLAS Flex Ply 6 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. \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:

-45 psf (See General Limitation #9)



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Deck Type: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type B: 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.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ACFoam-I, AC-Foam II, ENRGY 2, Isotherm-R, Isotherm RA, Isotherm RN, BMCA EnergyGuard, BMCA EnergyGuard RA, RN Minimum 1.3" thick	8	1:3 ft ²
ENRGY 2 Plus, GAFTEMP® Composite, Composite A, Composite N, BMCA EnergyGuard Composite, Composite A, Composite N Minimum 1.5" thick	8	1:4 ft ²
ISORoc Minimum 1.5" thick	8	1:2.67 ft ²
Perlite, GAFTEMP® Permalite, BMCA EnergyGuard Permalite Minimum ¾" thick	8	1:2 ft ²
Fiberglas Minimum 1 ⁵ / ₁₆ " thick	8	1:2.67 ft ²
Wood Fiber, GAFTEMP® Fiberboard, GAFTEMP High Density Fiberboard, BMCA EnergyGuard High Density Fiberboard, BMCA EnergyGuard Fiberboard Minimum 1" thick	8	1:4 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Any of the insulations listed for Base Layer, above.		
Paroc Minimum 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 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down. GAF requires either a ply of GAFGLAS STRATAVENT® Eliminator Perforated (laid dry) or a layer of a BMCA EnergyGuard PERLITE® 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 Flex Ply™ 6, GAFGLAS STRATAVENT® Eliminator Perforated, RUBEROID® Modified Base Sheet, RUBEROID MOP Smooth, RUBEROID® 20, RUBEROID SBS Heat-Weld Smooth or RUBEROID SBS Heat-Weld 25 directly to the insulated substrate. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: One or more plies GAFGLAS PLY 4®, GAFGLAS Flex Ply 6 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. \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:

-45 psf (See General Limitation #9)



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Deck Type : Cementitious Wood Fiber, Insulated

Deck Description: Cementitious wood fiber

System Type C: One or more layers of insulation simultaneously attached.

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
ACFoam-I Minimum 1.3" thick	N/A	N/A
ENRGY 2, Iso 95 +, Isotherm R, Isotherm RA, Isotherm RN, BMCA EnergyGuard Iso Minimum 1.4" thick	N/A	N/A
AC-Foam II, ENRGY 2 Plus, GAFTEMP Composite, Composite A, Composite N, BMCA EnergyGuard Composite, ISORoc Minimum 1.5" thick	N/A	N/A
Perlite, GAFTEMP® Permalite, BMCA EnergyGuard Perlite Minimum ¾" thick	N/A	N/A
Wood Fiber, GAFTEMP® Fiberboard, GAFTEMP® Fiberboard, BMCA EnergyGuard Fiberboard, BMCA EnergyGuard High Density Fiberboard Minimum 1" thick	N/A	N/A
Fiberglas Minimum 1⁵/₁₆" thick	N/A	N/A

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

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ACFoam-I, AC-Foam II, ENRGY 2, Isotherm R, Isotherm RA, Isotherm RN, BMCA EnergyGuard Iso Minimum 1.3" thick	8	1:3 ft ²
ENRGY 2 Plus, Isotherm N, GAFTEMP® Composite, GAFTEMP Composite A, GAFTEMP Composite N, BMCA EnergyGuard Composite Minimum 1.5" thick	8	1:4 ft ²
ISORoc Minimum 1.5" thick	8	1:2.67 ft ²
Perlite, GAFTEMP® PERMALITE, BMCA EnergyGuard Perlite Minimum ¾" thick	8	1:2 ft ²
Fiberglas Minimum 1⁵/₁₆" thick	8	1:2.67 ft ²



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Wood Fiber, GAFTEMP® Fiberboard, GAFTEMP High Density Fiberboard, BMCA EnergyGuard High Density Fiberboard, BMCA EnergyGuard Fiberboard
Minimum 1" thick

8

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 BMCA EnergyGuard Perlite 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 Flex Ply™ 6, GAFGLAS STRATAVENT® Eliminator Perforated (laid dry), RUBEROID® Modified Base Sheet, RUBEROID MOP Smooth, RUBEROID® 20, RUBEROID SBS Heat-Weld Smooth or RUBEROID SBS Heat-Weld 25 directly to the insulated substrate. Adhere with any approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: One or more plies GAFGLAS PLY 4®, GAFGLAS Flex Ply 6 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: -45 psf (See General Limitation #9)



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Deck Type 5: Cementitious Wood Fiber,

Deck Description: Cementitious wood fiber

System Type E: Anchor sheet mechanically fastened

All General and System Limitations shall apply.

Anchor Sheet: Install one ply of GAFGLAS® #75, GAFGLAS #80 Ultima™ Base Sheet, GAFGLAS® Ply 4®, GAFGLAS Flex Ply™ 6, GAFGLAS® STRATAVENT® Eliminator Nailable, RUBEROID MOP Smooth, RUBEROID® 20, RUBEROID Modified Base Sheet, RUBEROID SBS Heat-Weld™ Smooth or RUBEROID SBS Heat-Weld 25 base sheet mechanically fastened with any approved cementitious wood fiber fastener listed herein. Fastened at 6" o.c. at the 4" side lap and in two 12" o.c. staggered rows in the field.

Ply Sheet: One or more plies GAFGLAS PLY 4®, GAFGLAS Flex Ply 6 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: -45 psf (See General Limitation #9)



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Deck Type 5: Cementitious Wood Fiber, New Construction

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, GAFGLAS #80 Ultima™ Base Sheet, GAFGLAS Flex Ply™ 6, GAFGLAS® STRATAVENT® Eliminator Nailable, RUBEROID MOP Smooth, RUBEROID® 20, RUBEROID Modified Base Sheet, RUBEROID SBS Heat-Weld™ Smooth or RUBEROID SBS Heat-Weld 25 base sheet mechanically fastened with 1.8" Twin Loc-Nail Fasteners fastened at 9" o.c. at the 3" side lap and in two 12" o.c. staggered rows in the field.

Ply Sheet: One or more plies GAFGLAS PLY 4®, GAFGLAS Flex Ply 6 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)



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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