MIAMI-DADE

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

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

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

G.A.F. Materials Corporation
1361 Alps Road.
Wayne ,NJ 07470

Your application for Notice of Acceptance (NOA) of:
GAF Conventional Built-Up Roofing Systems for Poured Gypsum Decks
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 00-1019.01
EXPIRES: 12/11/2003

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 11/22/2000

PRODUCT CONTROL NOTICE OF ACCEPTANCE
ROOFING SYSTEM APPROVAL

Applicant:
GAF Materials Corporation
1361 Alps Road
Wayne, NJ 07470

Product Control No.: **00-1019.01**

Approval Date: November 22, 2000

Expiration Date: December 11, 2003

Category: Membrane Roofing System
Sub-Category: Built-up Roofing
Type: Conventional
Sub-Type: Fiberglass
Insulation Types:

Perlite
Polyisocyanurate
Composite Board
Wood Fiberboard
High Density Wood Fiberboard

Maximum Design Pressure

Material	Design Pressure
Poured Gypsum	-62.5 psf

Maximum Fire Classification

Material	Classification
Poured Gypsum	See General Limitation # 1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT

Product	Dimensions	Test Specification	Product Description
GAF Asphalt Concrete Primer	5, 55 gallons	ASTM D 41	Asphalt concrete primer used to promote adhesion of asphalt in built-up roofing.

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Roofing Product Control Examiner

Product	Dimensions	Test Specification	Product Description
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	5 gallons	ASTM 1227	Surface coating for smooth surfaced roofs.
GAF Premium Fibered Aluminum Roof Coating	1, 5 gallons	ASTM D 2824	Fibered aluminum coating.
GAF Jetblak All Weather Plastic Cement	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 Emulsion	5 gallons		Mineral colloidial bituminous emulsion with reflective aluminum flakes
GAF Aluminum Roof Paint	5 gallons	ASTM D2824, Type I	Non-fibered. aluminum pigmented, asphalt roof coating
GAF Built-Up Roofing Asphalt	100 lb. cartons, bulk	ASTM D312, Tpyes I, II, III and IV	Interply mopping and surfacing asphalt
RUBEROID® Modified Bitumen Adhesive	5 gallons	ASTM D3019, Type III	Fiber reinforced, polymer modified adhesive
RUBEROID Modified Flashing Cement	5 gallons	ASTM D4586 Type I	Fiber reinforced, polymer modified flashing cement.
GAFGLAS® #75	3 sq. roll 75 lb. roll	ASTM D 4601	Asphalt impregnated and coated glass mat base sheet.
GAFGLAS #80 Ultima™ Base Sheet	2 Sq. Roll 70 lbs./roll	ASTM D4601	Asphalt impregnated and coated, fiberglass base sheet
GAFGLAS Ply 6®	5 sq. roll 45 lb. roll	ASTM D 2178	Type VI asphalt impregnated glass felt with asphalt coating.

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Roofing Product Control Examiner

Product	Dimensions	Test Specification	Product Description
GAFGLAS FlexPly™6	5 sq. roll 45 lb. roll	ASTM D 2178	Type VI asphalt impregnated glass felt with asphalt coating.
GAFGLAS® Ply 4	5 sq. roll	ASTM D 2178	Type IV asphalt impregnated glass felt with asphalt coating.
GAFGLAS® Mineral Surfaced Cap Sheet	45 lb. roll	ASTM D 3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
GAFGLAS® STRATAVENT® Perforated	60 lb. roll	ASTM D3672 ASTM D 4897	Fiberglass base sheet coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating. Perforated with 1/4" x 1-1/2" slots in rows 3" centers.
GAFGLAS® Flashing	various		Asphalt coated glass fiber mat flashing sheet available in three sizes.
GAFGLAS® STRATAVENT® Nailable	1 square roll 69 lb. roll	ASTM D3672 ASTM D 4897	Fiberglass base sheet coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating.
GAFTEMP® Isotherm RA	various	PA 110	Polyisocyanurate foam insulation
GAFTEMP Isotherm RN	various	PA 110	Polyisocyanurate foam insulation
GAFTEMP Recover Board	1/2" thick	PA 110	Perlite recover board
GAFTEMP Composite A	Various	PA 110	Polyisocyanurate/wood fiberboard composite
GAFTEMP Tapered Composite A	Various	PA 110	Tapered Polyisocyanurate/wood fiberboard composite
GAFTEMP Composite N	Various	PA 110	Polyisocyanurate/wood fiberboard composite

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Roofing Product Control Examiner

Product	Dimensions	Test Specification	Product Description
GAFTEMP Tapered Composite N	Various	PA 110	Tapered Polyisocyanurate/wood fiberboard composite
GAFTEMP® Tapered Isotherm R	Various	PA 110	Tapered isocyanurate foam
GAFTEMP Tapered Isotherm RA	Various	PA 110	Tapered isocyanurate foam
GAFTEMP Tapered Isotherm RN	Various	PA 110	Tapered isocyanurate foam
GAFTEMP GAFCANT™	Various	PA 110	Cut perlite board
GAFTEMP GAFEDGE™ Tapered Edge Strip	Various	PA 110	Tapered perlite board
GAFTEMP PERMALITE® Tapered Roof Insulation	Various	PA 110	Tapered perlite board
GAFTEMP Recover Board	1/2" thick, Various sizes	PA 110	Perlite board
GAFTEMP® Isotherm R	various	PA 110	Polyisocyanurate foam insulation.
GAFTEMP® Composite	various	PA 110	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.
GAFTEMP® Composite A	various	PA 110	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.
GAFTEMP® Composite N	various	PA 110	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.
GAFTEMP® Fiberboard	various	PA 110	Fiberboard insulation.

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Roofing Product Control Examiner

Product	Dimensions	Test Specification	Product Description
GAFTEMP® PERMALITE ®	various	PA 110	Perlite insulation board.
GAFTEMP® High Density Fiberboard	various	PA 110	High density wood fiberboard insulation.
GAFTITE® Base Sheet Fastener and Plate	500 fasteners per box	PA 114	Base sheet fastening assembly.
NTB Fasteners		PA 114	Fastener for use in gypsum, tectum and lightweight insulating concrete decks.
Polypropylene Plates	3" and 3 ½"	PA 114	Round polypropylene stress plates.
RUBEROID® MOP Smooth	1 sq. roll 88 lbs.	ASTM D5147	Non-woven polyester mat coated with polymer modified asphalt. Does not have a factory applied surfacing.
RUBEROID ULTRACLAD® SBS	1 sq. roll 101 lb.	ASTM D5147	Woven fiberglass mat coated with polymer modified asphalt and surfaced with aluminum, copper or stainless steel foil.
RUBEROID Modified Base Sheet	3 sq. roll	ASTM 4601 type II, type G2 BUR	Premium glass fiber reinforced SBS-modified base sheet.
RUBEROID MOD Asphalt	60 lb. kegs	ASTM D 312	SEBS modified asphalt
RUBEROID MOD Asphalt L	60 lb. kegs	ASTM D 312	SEBS modified asphalt
RUBEROID MOD Asphalt P	60 lb. kegs	ASTM D 312	SEBS modified asphalt
RUBEROID® Modified Base Sheet	3 sq. roll 67 lbs	ASTM D4601 Type II, Type G2 BUR	Premium glass fiber reinforced SBS-modified base sheet.

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Product	Dimensions	Test Specification	Product Description
Ruberoid® Mop Granule	1 sq. roll 103 lbs.	ASTM D 5147	Non-woven polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
Ruberoid® Torch Smooth	1 sq. roll 87 lbs.	ASTM D 5147	Heavy duty, polyester reinforced, asphalt modified bitumen membrane.
Ruberoid® Torch Plus (Granule)	¾ sq. roll 93 lb. roll	ASTM D 5147	Heavy duty, polyester reinforced, asphalt modified bitumen membrane.
Ruberoid® Torch Granule	1 sq. roll 102 lb. roll	ASTM D 5147	Heavy duty, polyester reinforced, asphalt modified bitumen membrane.
Ruberoid® Torch FR	3/4 sq. roll 90 lbs.	ASTM D 5147	Non-woven polyester mat coated with fire retardant polymer modified asphalt surfaced with mineral granules.
Ruberoid® Mop Plus (Granule)	1 sq. roll 102 lbs.	ASTM D 5147	Non-woven polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
Ruberoid® Mop FR	1 sq. roll 105 lbs.	ASTM D 5147	Non-woven polyester mat coated with fire-retardant, polymer modified asphalt surfaced with mineral granules.
Ruberoid® 20	1.5 sq. roll 95 lbs.	ASTM D 5147	SBS modified asphalt base sheet reinforce with a glass fiber mat.
Ruberoid® 30	1 sq. roll 92 lbs.	ASTM D 5147	Non woven fiberglass mat coated with polymer modified asphalt and surfaced with mineral granules.
Ruberoid® 30 FR	1 sq. roll 92 lbs.	ASTM D 5147	Non woven fiberglass mat coated with fire retardant, polymer modified asphalt and surfaced with mineral granules.
Ruberoid® Mop 170 FR	1 sq. roll 103 lbs.	ASTM D 5147	Non-woven polyester mat coated with fire retardant polymer modified asphalt surfaced with mineral granules.

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Product	Dimensions	Test Specification	Product Description
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.

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TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS

Product	Dimensions	Test Specification	Product Description	Manufacturer
Pyrox	various	PA 110	Polyisocyanurate foam insulation	Apache Products Co. (with current PCA)
ACFoam I	various	PA 110	Polyisocyanurate foam insulation	Atlas Energy Products (with current PCA)
ACFoam II	various	PA 110	Polyisocyanurate foam insulation	Atlas Energy Products (with current PCA)
Celcore		PA 110	Cellular insulating concrete system	Celcore, Inc. (with current PCA)
Hy-Therm Nail-line	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp. (with current PCA)
Hy-Therm SP	various	PA 110	Polyisocyanurate foam insulation.	Celotex Corp. (with current PCA)
Hy-Therm AP	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp. (with current PCA)
Hy-Therm Stable R	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp. (with current PCA)
Hy-Therm White Line	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp. (with current PCA)
Anchorbond Fastener		PA 114	Insulation fastening assembly	Celotex Corp. (with current PCA)
TPR		PA 114	Aluminum fastener for lightweight, gypsum and tectum decks	Creative Construction Components (with current PCA)

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Product	Dimensions	Test Specification	Product Description	Manufacturer
FM-30, FM-45, FM-60, FM-90 Fasteners		PA 114	Base ply fastening systems for lightweight concrete decks	ES Products, Inc. (with current PCA)
Nail-Tite Type 'A'		PA 114	Galvanized steel base ply fastener for lightweight concrete decks	ES Products, Inc. (with current PCA)
Nail-Tite Type 'R'		PA 114	Galvanized steel base ply fastener for lightweight concrete decks	ES Products, Inc. (with current PCA)
ISO 95+ Composite		PA 110	Polyisocyanurate / perlite ridged insulation	Firestone (with current PCA)
Asphalt		ASTM D 312	Type III or IV Hot asphalt bitumin adhesive	generic
Asphalt Primer		ASTM D 41	Asphalt Primer	generic
EPS	various	PA 110	Extruded polystyrene insulation	generic
High Density Wood Fiberboard	various	PA 110	Wood fiber insulation board	generic
Pelite/Urethane Composite	various	PA 110	Perlite / urethane composite board insulation	generic
Perlite Insulation	various	PA 110	Perlite insulation board	generic
Polyethylene	4 mil min.		Vapor barrier / Air barrier	generic
Red Rosin	various		Rosin paper for barrier layer on wood decks	generic
Roofing Nails	Minimum # 12	PA 114	Corrosion resistant annular ring shank nails	generic
Tin Caps	Min. 32 ga. x $1^5/_8$"		Corrosion resistant circular discs.	generic
Type X Gypsum	various		Fire resistant rated gypsum	generic

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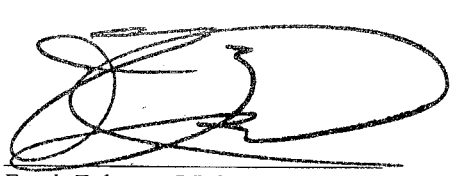
Product	Dimensions	Test Specification	Product Description	Manufacturer
Type X Gypsum	various		Fire resistant rated gypsum	generic
al MB aluminum roof coating		PA 121	Aluminum roof coating	Grundy Industries (with current PCA)
Dens-Deck	various	PA 110	Gypsum insulation board.	Georgia Pacific (with current PCA)
Gripdek Fastener		PA 114	Insulation fastener	ITW Buildex (with current PCA)
Hexcel Fastener		PA 114	Insulation fastener	ITW Buildex (with current PCA)
Hextra		PA 114	Insulation fastener and metal or plastic plate	ITW Buildex (with current PCA)
Standard Plastic Plate	3" round	PA 114	Polyolefin plastic plate	ITW Buildex (with current PCA)
ISO 95+	various	PA 110	Polyisocyanurate foam insulation	International Permalite (with current PCA)
E'NRG'Y-2	various	PA 110	Polyisocyanurate foam insulation	NRG Barriers, Inc. (with current PCA)
ISORoc	various	PA 110	Polyisocyanurate foam / rockwool composite insulation	NRG Barriers, Inc. (with current PCA)
Con-Tite		PA 114	Conctrete deck insulation fastener	Olympic Manufacturing Group, Inc. (with current PCA)
N.T.B. Magnum		PA 114	Glass reinforced nylon fastener for use in gypsum and cementitious wood fiber decks.	Olympic Manufacturing Group, Inc. (with current PCA)



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Product	Dimensions	Test Specification	Product Description	Manufacturer
N.T.B. Spin Weld Plate	2" round	PA 114	2" round amorphorus nylon locking plate for use with N.T.B. fasteners with 1" head	Olympic Manufacturing Group, Inc. (with current PCA)
N.T.B. Plastic Plate	3" round	PA 114	3" round polypropylene stress plate for use with N.T.B. fasteners	Olympic Manufacturing Group, Inc. (with current PCA)
N.T.B. Plate		PA 114	3" round galvalume AZ55 plate for use with N.T.B. fasteners	Olympic Manufacturing Group, Inc. (with current PCA)
Olympic CR Base Felt Fastener and Base Sheet Disc		PA 114	Insulation fastener assembly for Base Sheet fastening only	Olympic Manufacturing Group, Inc. (with current PCA)
GlasFast Fastener		PA 114	Insulation fastener assembly with recessed plastic plate	Owens-Corning Fiberglas Corp. (with current PCA)
GlasFast/Striker		PA 114	Insulation fastener assembly and metal plate for use over concrete decks	Owens-Corning Fiberglas Corp. (with current PCA)
Paroc Base Board	various	PA 110	Rockwool insulation	Partek, Inc. (with current PCA)
Paroc Cap Board	various	PA 110	Rockwool insulation	Partek, Inc. (with current PCA)
Multi-Max	various	PA 110	Polyisocyanurate foam insulation	Rmax, Inc. (with current PCA)
Multi-Max FA	various	PA 110	Polyisocyanurate foam insulation	Rmax, Inc. (with current PCA)
UltraGard	various	PA 110	Polyisocyanurate foam insulation	Schuller International Inc. (with current PCA)

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Product	Dimensions	Test Specification	Product Description	Manufacturer
202 HS		PA 121	Roof coating	Thermo-Materials, Inc. (with current PCA)
Super Prep II		PA 121	Roof coating	Thermo-Materials, Inc. (with current PCA)
Structodeck	various	PA 110	High density wood fiber	Wood Fiber Industries (with current PCA)

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EVIDENCE SUBMITTED

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corporation	Current Insulation Attachment Requirements	FMRC 1996	01.01.96
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 0T4A1.AM	08.26.92
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 1V8A4.AM	06.28.93
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 1R1A6.AM	11.15.91
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 0T2Q4.AM	10.17.91
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 0Q6A6.AM	07.16.91
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 3X3A2.AM	08.02.94
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 0Y9Q5.AM	07.29.94
Factory Mutual Research Corp.	Wind Uplift, FMRC 4470 - PA 114	J.I. 0D0A8.AM	07.09.97
Factory Mutual Research Corp.	Wind Uplift, FMRC 4470 - PA 114	J.I. 2B8A4.AM	07.02.97
Exterior Research & Design, LLC Trinity Engineering	Wind Uplift	#4483.04.97-1	06-06-97
Underwriters Laboratories, Inc.	Fire Resistance Classification UL 790 - PA 114	R1306, 87NK11819	01.01.93

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Systems

Deck Type 6I: Poured Gypsum, Insulated, New Construction, Re-Roof

Deck Description: Poured Gypsum Concrete

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

All General and System Limitations apply.

Insulation Base Layer	Fastener type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s):				
ACFoam-I Minimum: 1.2" x 3' x 4'	N/A	N/A	N/A	N/A
ACFoam-II, GAFTEMP Isotherm RA Minimum: 1.75" x 4' x 4'	N/A	N/A	N/A	N/A
E'NRG'Y-1 Plus, E'NRG'Y-2 Plus, GAFTEMP® Composite N Minimum: 1.5" x 3' x 4'	N/A	N/A	N/A	N/A
E'NRG'Y-2, PSI-25, ISO-95, GL, GW Composite Plus, GAFTEMP Isotherm RN Minimum: 1.4" x 3' x 4'	N/A	N/A	N/A	N/A
Fiberglas Minimum: 15/16" x 4' x 4'	N/A	N/A	N/A	N/A
GAFTEMP® Isotherm R, Hy-Therm AP, Pyrox, White Line, UltraGard Gold Minimum: 1.3" x 4' x 4'	N/A	N/A	N/A	N/A
Gypsum Board Minimum: ½" x 4' x 8'	N/A	N/A	N/A	N/A
GAFTEMP® Fiberboard, GAFTEMP® High Density Fiberboard, GAFTEMP® PERMALITE®, GAFTEMP Recover Board Minimum: ½" x 2' x 4'	N/A	N/A	N/A	N/A
GAFTEMP® Composite, GAFTEMP Composite A, GAFTEMP Composite N, ACFoam Composite Minimum: 1.5" x 4' x 4'	N/A	N/A	N/A	N/A
Thermax Hy-Tec, Hy-Tec 2, Energy Lok Minimum: 1.2" x 4' x 4'	N/A	N/A	N/A	N/A
Thermax TRI-STAR, Hytherm Premier				

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Minimum: 1.2" x 3' x 4'	N/A	N/A	N/A	N/A
Insulation Base or Top Layer	Fastener type	Fastening Detail No.	Fasteners Per Board	Fastener Density

Approved Type(s):

GAFTEMP® High Density Fiberboard, GAFTEMP® Fiberboard

Minimum: ½" x 4' x 8'	N/A	N/A	N/A	N/A

GAFTEMP® PERMALITE®,GAFTEMP Recover Board

Minimum: ½" x 2' x 4'	N/A	N/A	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs. Please refer to Metro-Dade County Roofing Application Standard PA 117 for insulation attachment. Insulations 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 GAFTEMP® Permalite or wood fiber overlay board on all isocyanurate applications.

Anchor Sheet: One ply of , #75 Base Sheet, GAFGLAS #80 Ultima™ Base Sheet, STRATAVENT® Nailable, RUBEROID Modified Base Sheet or RUBEROID® 20 mechanically fastened as described below:

Fastening: Approved fasteners at a 4" side lap 12" o.c. and two rows staggered in the center of the sheet 24" o.c.; see System Limitation #4.

Base Sheet: One ply of GAFGLAS® Ply 4, STRATAVENT® Perforated laid dry, GAFGLAS® Ply 6®, GAFGLAS FlexPly™6 or GAFGLAS® #75, GAFGLAS #80 ULTIMA™ Base Sheet, RUBEROID Modified Base Sheet adhered to the insulation in a full mopping of an approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq..see General Limitation #4

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

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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.

Maximum Design Pressure:	-45 psf
Maximum Fire Classification	Class 'A'; see General Limitation #2.
Maximum Slope:	1:12; see General Limitation #3.
Specification No.:	I-B-5_M, I-B-5-M/P6, I-B-5-G, I-B-5-G/P6, I-B-5-C, I-B-5/P6, I-O-5-M, I-O-5-M/P6, I-B-4-M, I-O-4M/P6, I-O-4-M, I-O-4-M/P6, I-B-4-G, I-O-4-G/P6, I-O-4-C, I-O-4-C/P6, I-B-4-C, I-B-4-C/P6, I-B-3-M, I-B-3-G, I-B-3-C, I-O-3-M, I-O-3-G, I-O-3-C

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Deck Type 6I: Poured Gypsum, Insulated, New Construction, Re-Roof

Deck Description: Poured Gypsum Concrete

System Type A-2: Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

Insulation Base Layer	Fastener type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s):				
ACFoam-I Minimum: 1.2" x 3' x 4'	N/A	N/A	N/A	N/A
ACFoam-II, GAFEMP Isotherm RA Minimum: 1.75" x 4' x 4'	N/A	N/A	N/A	N/A
E'NRG'Y-1 Plus, E'NRG'Y-2 Plus, GAFTEMP® Composite N Minimum: 1.5" x 3' x 4'	N/A	N/A	N/A	N/A
E'NRG'Y-2, PSI-25, ISO-95, GL, GW Composite Plus, GAFTEMP Isotherm RN Minimum: 1.4" x 3' x 4'	N/A	N/A	N/A	N/A
Fiberglas Minimum: 15/16" x 4' x 4'	N/A	N/A	N/A	N/A
GAFTEMP® Isotherm R, Hy-Therm AP, Pyrox, White Line, UltraGard Gold Minimum: 1.3" x 4' x 4'	N/A	N/A	N/A	N/A
Gypsum Board Minimum: ½" x 4' x 8'	N/A	N/A	N/A	N/A
GAFTEMP® Fiberboard, GAFTEMP® High Density Fiberboard, GAFTEMP® PERMALITE®, GAFTEMP Recover Board Minimum: ½" x 2' x 4'	N/A	N/A	N/A	N/A
GAFTEMP® Composite, GAFTEMP Composite A, GAFTEMP Composite N, ACFoam Composite Minimum: 1.5" x 4' x 4'	N/A	N/A	N/A	N/A
Isotherm R Minimum: 1.3" x 3' x 4'	N/A	N/A	N/A	N/A
Thermax Hy-Tec, Hy-Tec 2, Energy Lok Minimum: 1.2" x 4' x 4'	N/A	N/A	N/A	N/A
Thermax TRI-STAR, Hytherm Premier				

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Minimum: 1.2" x 3' x 4'	N/A	N/A	N/A	N/A
Insulation Base or Top Layer	Fastener type	Fastening Detail No.	Fasteners Per Board	Fastener Density

Approved Type(s):

GAFTEMP® High Density Fiberboard, GAFTEMP® Fiberboard

Minimum: ½" x 4' x 8'	N/A	N/A	N/A	N/A

GAFTEMP® PERMALITE®,GAFTEMP Recover Board

Minimum: ½" x 2' x 4'	N/A	N/A	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs. Please refer to Metro-Dade County Roofing Application Standard PA 117 for insulation attachment. Insulations 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 GAFTEMP® Permalite or wood fiber overlay board on all isocyanurate applications.

Anchor Sheet: One ply of GAFGLAS® #75, GAFGLAS #80 ULTIMA™ Base Sheet, GAFGLAS® STRATAVENT Nailable, RUBEROID Modified Base Sheet or RUBEROID® 20 mechanically fastened as described below:

Fastening: GAFTITE® 1.2" Base Sheet fasteners at a 2" side lap 9" o/c. and in three rows staggered in the center of the sheet 9" o/c.; see System Limitation #4.

Base Sheet: One or more plies of GAFGLAS® Ply 4, STRATAVENT® Perforated laid dry, GAFGLAS® Ply 6®, GAFGLAS FlexPly™6 or GAFGLAS® #75, GAFGLAS #80 ULTIMA™ Base Sheet, RUBEROID Modified Base Sheet adhered to the insulation in a full mopping of an approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq..see General Limitation #4

Ply Sheet: One or more plies of GAFGLAS® PLY 4®, GAFGLAS®FlexPly™6 or GAFGLAS® PLY 6® ply sheet 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..

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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.

Maximum Design Pressure: -57.5 psf

Maximum Fire Classification: Class 'A'; see General Limitation #2.

Maximum Slope: 1:12; see General Limitation #3.

Specification No.: I-B-5_M, I-B-5-M/P6, I-B-5-G, I-B-5-G/P6, I-B-5-C, I-B-5/P6, I-O-5-M, I-O-5-M/P6, I-B-4-M, I-O-4M/P6, I-O-4-M, I-O-4-M/P6, I-B-4-G, I-O-4-G/P6, I-O-4-C, I-O-4-C/P6, I-B-4-C, I-B-4-C/P6, I-B-3-M, I-B-3-G, I-B-3-C, I-O-3-M, I-O-3-G, I-O-3-C

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Deck Type 6I: Poured Gypsum, Insulated, New Construction, Re-Roof

Deck Description: Poured Gypsum Concrete

System Type B: Base layers of insulation mechanically fastened, Optional top layer adhered with approved asphalt.

All General and System Limitations apply.

Insulation Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **AC-Foam I, Hy-Therm Pyrox**				
Minimum: 1.3" x 3' x 4'	Rawlite	[2]	4	1:3 ft²
Approved Type(s): **E'NRG'Y 2, GAFTEMP Isotherm RN**				
Minimum: 1.25" x 3' x 4'	Rawlite	[2]	4	1:3 ft²
Approved Type(s): **E'NRG'Y 2 Plus**, GAFTEMP Composite N				
Minimum: 1.5" x 3' x 4'	Rawlite	[2]	3	1:4 ft²
Approved Type(s): **AC-Foam II**, GAFTEMP Isotherm RA				
Minimum: 1.3" x 4' x 4'	Rawlite	[3]	4	1:4 ft²
Approved Type(s): **GAFTEMP®** PERMALITE ®				
Minimum: 1" x 2' x 4'	Rawlite	[1]	4	1:2 ft²
Approved Type(s): **Fiberglas**				
Minimum: $^{15}/_{16}$" x 4' x 4'	Rawlite	[3]	6	1:2.67 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 Metro-Dade County Roofing Application Standard PA 117 for insulation attachment.

Insulation Top Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **GAFTEMP® High Density Fiberboard, GAFTEMP® Fiberboard, GAFTEMP®** PERMALITE, GAFTEMP Recover Board				
Minimum: ½" x 2' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Fiberglas**				
Minimum: $^{15}/_{16}$" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **GAFTEMP® Composite**				
Minimum: 1.5" x 4' x 4'	N/A	N/A	N/A	N/A

Note: Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs. Please refer to Metro-Dade County Roofing

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Application Standard PA 117 for insulation attachment. Insulations 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.

Base Sheet:	One ply of GAFGLAS® Ply 4, STRATAVENT® Perforated laid dry, GAFGLAS® Ply 6®, GAFGLAS FlexPly™6 or GAFGLAS® #75, GAFGLAS #80 ULTIMA™ Base Sheet, RUBEROID Modified Base Sheet adhered to the insulation in a full mopping of an approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq..see General Limitation #4
Ply Sheet:	One or more plies of GAFGLAS® PLY 4®, GAFGLAS®FlexPly™6 or GAFGLAS® PLY 6® ply sheet 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.
Maximum Design Pressure:	-45 psf
Maximum Fire Classification	Class 'A'; see General Limitation #2.
Maximum Slope:	1:12; see General Limitation #3.
Specification No.:	I-B-5_M, I-B-5-M/P6, I-B-5-G, I-B-5-G/P6, I-B-5-C, I-B-5/P6, I-O-5-M, I-O-5-M/P6, I-B-4-M, I-O-4M/P6, I-O-4-M, I-O-4-M/P6, I-B-4-G, I-O-4-G/P6, I-O-4-C, I-O-4-C/P6, I-B-4-C, I-B-4-C/P6, I-B-3-M, I-B-3-G, I-B-3-C, I-O-3-M, I-O-3-G, I-O-3-C

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Roofing Product Control Examiner

Deck Type 6I: Poured Gypsum, Insulated, New Construction, Re-Roof

Deck Description: Poured Gypsum Concrete

System Type C: All layers of insulation simultaneously fastened.

All General and System Limitations apply.

Insulation Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **AC-Foam I**				
Minimum: 1.3" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **E'NRG'Y 2**, GAFTEMP Isotherm R, GAFTEMP Isotherm RA, GAFTEMP Isotherm RN				
Minimum: 1.4" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **E'NRG'Y 2 Plus**, GAFTEMP Composite, GAFTEMP Composite A, GAFTEMP Composite N				
Minimum: 1.5" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): GAFTEMP® **High Density Fiberboard, GAFTEMP® Fiberboard**				
Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): GAFTEMP® PERMALITE®, GAFTEMP Recover Board				
Minimum: ½" x 2' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Fiberglas**				
Minimum: $^{15}/_{16}$" x 4' x 4'	N/A	N/A	N/A	N/A

Note: All layers shall be simultaneously attached; see top layer below for fasteners and density.

Insulation Top Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): GAFTEMP® PERMALITE®, GAFTEMP Recover Board				
Minimum: ½" x 2' x 4'	Rawlite	[1]	4	1:2 ft²
Approved Type(s): GAFTEMP® **High Density Fiberboard, GAFTEMP® Fiberboard**				
Minimum: ½" x 2' x 4'	Rawlite	[1]	4	1:2 ft²
Approved Type(s): Fiberglas				
Minimum: $^{15}/_{16}$" x 4' x 4'	Rawlite	[3]	8	1:2 ft²
Approved Type(s): GAFTEMP® **Composite**, GAFTEMP Composite A, GAFTEMP Composite N				
Minimum: 1.5" x 4' x 4'	Rawlite	[3]	8	1:2 ft²

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Roofing Product Control Examiner

Note: 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 Dade County Protocol PA 117 for fastener details).

Base Sheet:	One ply of GAFGLAS® Ply 4, STRATAVENT® Perforated laid dry, GAFGLAS® Ply 6®, GAFGLAS FlexPly™6 or GAFGLAS® #75, GAFGLAS #80 ULTIMA™ Base Sheet, RUBEROID Modified Base Sheet adhered to the insulation in a full mopping of an approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq..see General Limitation #4
Ply Sheet:	One or more plies of GAFGLAS® PLY 4®, GAFGLAS®FlexPly™6 or GAFGLAS® PLY 6® ply sheet 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.
Maximum Design Pressure:	-45 psf
Maximum Fire Classification	Class 'A'; see General Limitation #2.
Maximum Slope:	1:12; see General Limitation #3.
Specification No.:	I-B-5_M, I-B-5-M/P6, I-B-5-G, I-B-5-G/P6, I-B-5-C, I-B-5/P6, I-O-5-M, I-O-5-M/P6, I-B-4-M, I-O-4M/P6, I-O-4-M, I-O-4-M/P6, I-B-4-G, I-O-4-G/P6, I-O-4-C, I-O-4-C/P6, I-B-4-C, I-B-4-C/P6, I-B-3-M, I-B-3-G, I-B-3-C, I-O-3-M, I-O-3-G, I-O-3-C

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Deck Type 6: Poured Gypsum Concrete, Insulated, New Construction, Re-Roof

Deck Description: Poured gypsum concrete.

System Type E: Insulation mechanically fastened.

All General and System Limitations apply.

Insulation Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
PERMALITE® Min: ¾" x 2'x 4'	Olympic NTB GAFTITE® NTB (with barbs)	[1]	8	1:1 ft^2

Base Sheet: One ply of GAFGLAS® Ply 4, STRATAVENT® Perforated laid dry, GAFGLAS® Ply 6®, GAFGLAS FlexPly™6 or GAFGLAS® #75, GAFGLAS #80 ULTIMA™ Base Sheet, RUBEROID Modified Base Sheet adhered to the insulation in a full mopping of an approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq..see General Limitation #4

Ply Sheet: One or more plies of GAFGLAS® PLY 4®, GAFGLAS®FlexPly™6 or GAFGLAS® PLY 6® ply sheet 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.

Maximum Design Pressure: -62.5 psf

Maximum Fire Classification: Class 'A'; see General Limitation #2.

Maximum Slope: 1:12; see General Limitation #3.

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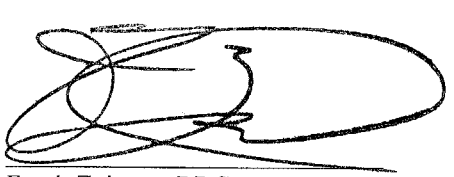
Specification No.: I-B-5_M, I-B-5-M/P6, I-B-5-G, I-B-5-G/P6, I-B-5-C, I-B-5/P6, I-O-5-M, I-O-5-M/P6, I-B-4-M, I-O-4M/P6, I-O-4-M, I-O-4-M/P6, I-B-4-G, I-O-4-G/P6, I-O-4-C, I-O-4-C/P6, I-B-4-C, I-B-4-C/P6, I-B-3-M, I-B-3-G, I-B-3-C, I-O-3-M, I-O-3-G, I-O-3-C



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Roofing Product Control Examiner

Deck Type 6: Poured Gypsum Concrete, Non-insulated, New Construction, Re-Roof

Deck Description: Poured gypsum concrete.

System Type E: Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of GAFGLAS® #75, GAFGLAS #80 ULTIMA™ Base Sheet, GAFGLAS® STRATAVENT Nailable, RUBEROID Modified Base Sheet or Ruberoid® 20 mechanically fastened as described below:

Fastening: Approved fasteners at a 4" side lap 12" o/c. and two rows staggered in the center of the sheet 24" o/c.; see System Limitation #4.

Ply Sheet: One or more plies of GAFGLAS® PLY 4®, GAFGLAS®FlexPly™6 or GAFGLAS® PLY 6® ply sheet 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..

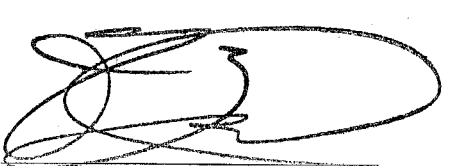
2. Asphalt flood coat at an application rate of 60 lbs./sq. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.

Maximum Design Pressure: -45 psf

Maximum Fire Classification: Class 'A'; see General Limitation #2.

Maximum Slope: 1:12; see General Limitation #3.

Specification No.: I-B-5_M, I-B-5-M/P6, I-B-5-G, I-B-5-G/P6, I-B-5-C, I-B-5/P6, I-O-5-M, I-O-5-M/P6, I-B-4-M, I-O-4M/P6, I-O-4-M, I-O-4-M/P6, I-B-4-G, I-O-4-G/P6, I-O-4-C, I-O-4-C/P6, I-B-4-C, I-B-4-C/P6, I-B-3-M, I-B-3-G, I-B-3-C, I-O-3-M, I-O-3-G, I-O-3-C



Frank Zuloaga, RRC
Roofing Product Control Examiner

Deck Type 6: Poured Gypsum Concrete, Non-insulated, New Construction, Re-Roof

Deck Description: Poured gypsum concrete.

System Type E: Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of GAFGLAS® #75, GAFGLAS #80 ULTIMA™ Base Sheet, GAFGLAS® STRATAVENT Nailable, RUBEROID Modified Base Sheet or RUBEROID® 20 mechanically fastened as described below:

Fastening: GAFTITE® 1.2" Base Sheet fasteners at a 2" side lap 9" o/c. and in two rows staggered in the center of the sheet 12" o/c.; see System Limitation #4.

Ply Sheet: One or more plies of GAFGLAS® PLY 4®, GAFGLAS®FlexPly™6 or GAFGLAS® PLY 6® ply sheet 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.

Maximum Design Pressure: -50 psf

Maximum Fire Classification: Class 'A'; see General Limitation #2.

Maximum Slope: 1:12; see General Limitation #3.

Specification No.: N-B-5_M, N-B-5-M/P6, N-B-5-G, N-B-5-G/P6, N-B-5-C, N-B-5/P6, N-O-5-M, N-O-5-M/P6, N-B-4-M, N-O-4M/P6, N-O-4-M, N-O-4-M/P6, N-B-4-G, N-O-4-G/P6, N-O-4-C, N-O-4-C/P6, N-B-4-C, N-B-4-C/P6, N-B-3-M, N-B-3-G, N-B-3-C, N-O-3-M, N-O-3-G, N-O-3-C

Frank Zuloaga, RRC
Roofing Product Control Examiner

Deck Type 6: Poured Gypsum Concrete, Non-insulated, New Construction, Re-Roof

Deck Description: Poured gypsum concrete.

System Type E: Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of GAFGLAS® #75, GAFGLAS #80 ULTIMA™ Base Sheet, GAFGLAS® STRATAVENT Nailable, RUBEROID Modified Base Sheet or RUBEROID® 20 mechanically fastened as described below:

Fastening: GAFTITE® 1.2" Base Sheet fasteners at a 2" side lap 9" o/c. and in three rows staggered in the center of the sheet 9" o/c.; see System Limitation #4.

Ply Sheet: (Optional, required if used with RUBEROID 20 or perforated STRATAVENT®) one or more plies of GAFGLAS® PLY 4®, GAFGLAS®FlexPly™6 or GAFGLAS® PLY 6® ply sheet 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..

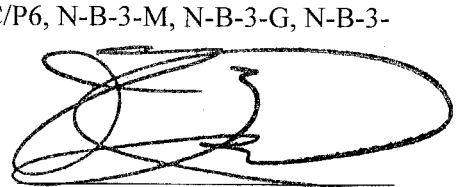
2. Asphalt flood coat at an application rate of 60 lbs./sq. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.

Maximum Design Pressure: -57.5 psf

Maximum Fire Classification: Class 'A'; see General Limitation #2.

Maximum Slope: 1:12; see General Limitation #3.

Specification No.: N-B-5_M, N-B-5-M/P6, N-B-5-G, N-B-5-G/P6, N-B-5-C, N-B-5/P6, N-O-5-M, N-O-5-M/P6, N-B-4-M, N-O-4M/P6, N-O-4-M, N-O-4-M/P6, N-B-4-G, N-O-4-G/P6, N-O-4-C, N-O-4-C/P6, N-B-4-C, N-B-4-C/P6, N-B-3-M, N-B-3-G, N-B-3-C, N-O-3-M, N-O-3-G, N-O-3-C



Frank Zuloaga, RRC
Roofing Product Control Examiner

Poured Gypsum System Limitations:

1 Poured Gypsum decks shall be tested in compliance with the provisions set forth in Subsection 3401.10(h) of the South Florida Building Code.

2 If mechanical attachment to the deck is proposed, field withdrawal resistance testing shall be performed to determine fastener patterns and density. All testing and fastening design shall be in compliance with Miami-Dade County Protocol PA 105 & Roofing Application Standard PA 117.

   a. Fastener spacing for anchor sheet attachment is based on a Minimum Characteristic Force (F') of 95 lbf or greater as tested in compliance with Miami-Dade County Protocol PA 105. If F' as tested is below 95 lbf, a professional engineer may submit a revised fastener spacing utilizing the withdrawal resistance value taken from Miami-Dade County Protocol PA 105 and calculations in compliance with Miami-Dade Roofing Application Standard PA 117.

3 All standard insulation panel sizes are acceptable for mechanical attachment. Insulation Panel shall not be bonded directly to the gypsum deck; a mechanically attached anchor sheet shall be used.

   a. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') of 275 lbf. as tested in compliance with Miami-Dade County Protocol PA 105 & Roofing Application Standard PA 117. If the fastener value, as field tested, are below 275 lbf. insulation attachment shall not be acceptable.

Frank Zuloaga, RRC
Roofing Product Control Examiner

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 applied 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.**

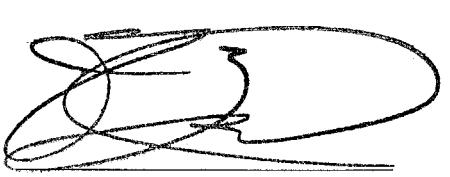
5 Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Applicable Standard TAS 105. If the fastener value, as field-tested, is below 275 lbf., insulation attachment shall not be acceptable.

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 the 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 Professional Engineer, Registered 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 of these areas. Fastener densities shall be increase for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida Registered Professional Engineer, Registered Architect, or Registered Roof Consultant. **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**

8 All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform 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, 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.)**



Frank Zuloaga, RRC
Roofing Product Control Examiner

NOTICE OF ACCEPTANCE STANDARD CONDITIONS

1 Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2 Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3 Renewals of Acceptance will not be considered if:
- a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
- b) The product is no longer the same product (identical) as the one originally approved;
- c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
- d) The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4 Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5 Any of the following shall also be grounds for removal of this Acceptance:
a) Unsatisfactory performance of this product or process;
b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.

6 The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.

7 A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The copies need not be resealed by the engineer.

8 Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9 This Acceptance contains pages 1 through 32

END OF THIS ACCEPTANCE

Frank Zuloaga, RRC
Roofing Product Control Examiner