MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

GAF Materials 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 and accepted by Miami–Dade County PERA – Product Control Section to be used in Miami–Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami–Dade County Product Control Section (In Miami–Dade County) and/or the AHJ (in areas other than Miami–Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami–Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Liberty™ SBS Self-Adhering Modified Bitumen Roofing Systems Over Wood Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, and following statement: "Miami–Dade County Product Control Approved", unless otherwise noted herein.

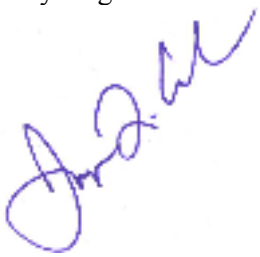
RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami–Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA No. 09-0323.18 and consists of pages 1 through 14.
The submitted documentation was reviewed by Jorge L. Acebo.



ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Deck Type: Wood
Material: SBS
Maximum Design Pressure: -60 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
Liberty™ SBS Self-Adhering Base/Ply Sheet	39.375" x 66'	ASTM D 6163	Self-adhered, SBS modified, fiberglass reinforced membrane for base or ply sheet applications.
Liberty™ MA Mechanically Attached Base Sheet	39.375" x 66'	ASTM D 4601 Type II	Mechanically attached, SBS modified, fiberglass reinforced base sheet.
Liberty™ SBS Self-Adhering Cap Sheet	39.375" x 34'	ASTM D 6162	Self-adhering, SBS modified, polyester / fiberglass composite reinforced cap sheet
FireOut™ Fire Barrier Coating	N/A	Proprietary	Low VOC, water-based coating system that provides outstanding flame spread and penetration to combustible roof decks in the event of fire.
RUBEROID® SBS Heat-Weld™ Granule	39.37" (1 meter) wide	ASTM D 6164	Non-Woven Polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
RUBEROID® SBS Heat-Weld™ Smooth	39.37" (1 meter) wide	ASTM D 6164	Non-Woven Polyester mat coated with polymer modified asphalt and smooth surfaced.
RUBEROID® SBS Heat-Weld™ 170 FR	39.37" (1 meter) 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	39.37" (1 meter) wide	ASTM D 6164	Non-Woven Polyester mat coated with polymer modified asphalt and surfaced with mineral granules.
RUBEROID® SBS Heat-Weld Plus FR	39.37" (1 meter) wide	ASTM D 6164	Non-Woven Polyester mat coated with fire retardant polymer modified asphalt and surfaced with mineral granules.

Product	Dimensions	Test Specification	Product Description
RUBEROID® SBS Heat-Weld™ 25	39.37" (1 meter) wide	ASTM D 6164	Non-Woven Polyester mat coated with polymer modified asphalt and smooth surfaced.
Matrix™ 307 Premium Asphalt Primer	3, 5, 55 gallons	ASTM D 41	Asphalt concrete primer used to promote adhesion of asphalt in built-up roofing.
Matrix™ 322 Elastomeric Roof Coating	5, 55 gallons	ASTM D 1653, ASTM D 412, ASTM E 470 ASTM D 6038	Styrene acrylic-based roof coating that forms a seamless and flexible layer of protection for your roof.
Matrix™ 602 MB Xtra Elastomeric Roofing Membrane	5, 55 gallons	ASTM D 412, ASTM B 117, ASTM C 794, ASTM G 21, FTMS 141.6271, ASTM D 21, ASTM D 1475 ASTM E 1644.	Surface coating for smooth surfaced and mineral surfaced roofs.
Matrix™ 715 MB Elastomeric Roofing Membrane	5, 55 gallons	ASTM D 412, ASTM D 21, ASTM D 1475, ASTM E 1644	Surface coating for smooth surfaced and mineral surfaced roofs.
Topcoat® MB Plus	5, 55 gallons	ASTM D 412, ASTM D 21, ASTM D 1475, ASTM E 1644	Water-based, low VOC, sprayable polymeric liquid, which cures to form a seamless rubber membrane.
Topcoat® Surface Seal SB	5, 55 gallons	ASTM D 412, ASTM B 117, ASTM C 794, ASTM G 21, FTMS141.6271, ASTM D 21, ASTM D 1475, ASTM E 1644	Solvent-based, sprayable thermoplastic rubber liquid, which cures to form a seamless rubber membrane.
GAFGLAS® FlexPly™ 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® #75 Base Sheet	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 D 4601	Asphalt impregnated and coated, fiberglass base sheet.

Product	Dimensions	Test Specification	Product Description
GAFGLAS® Stratavent® Eliminator™ Nailable	39.37" (1 meter) wide	ASTM D 3672 ASTM D 4897 ASTM D 4601	Fiberglass base sheet coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic 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® EnergyCap™ BUR Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D 3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules and reflective EnergyCote™ coating.
RUBEROID® 20	39.37" (1 meter) wide	ASTM D 6163 ASTM D 5147	SBS modified asphalt base sheet reinforce with a glass fiber mat.
RUBEROID® Mop Smooth	39.37" (1 meter) wide	ASTM D5147 ASTM D6298	Non-woven polyester mat coated with polymer modified asphalt. Does not have a factory applied surfacing.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ PolyIso	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA, EnergyGuard™ RN, EnergyGuard™ Ultra	Polyisocyanurate foam insulation	GAF
DensDeck® DuraGuard™	Modified Gypsum Roof Board	Georgia-Pacific
Dens Deck®	Water-resistant gypsum board	GAF
Securock™	Fiber reinforced roof board	USG Corporation

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec™ #12 Standard & Heavy Duty #14 Roofing Fasteners	Insulation fastener for steel, wood & concrete decks.	Fastener: Various lengths	GAF Materials Corp.
2.	Drill-Tec™ ASAP® 3S	Pre-assembled fasteners and metal and plastic plates.	Fastener: Various lengths Plate: 3" diameter	GAF Materials Corp.
3.	Drill-Tec™ Plastic Polypropylene Plates	Round Polypropylene plate.	Plate: 3" & 3-½" diameter	GAF Materials Corp.
4.	Drill-Tec™ Metal Insulation Plates	Round galvalume plate.	Plate: 3" & 3-½" diameter	GAF Materials Corp.
5.	Annular Ring Shank Nails & Tin Caps	Galvanized steel Ring shank roofing nails with Galvanized steel tin caps.	Nail: Minimum 12 Gauge Various lengths Tin Caps: Minimum 32 Ga 1⅝" Diameter	Generic (Dade County Approved)

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
IRT-ARCON, Inc..	TAS 114	02-005	01/18/02
	TAS 114	02-014	03/22/02
Factory Mutual Research Corp.	4470	3024805	11/20/06
Trinity|ERD	ASTM D 6164	G6850.08.08	08/29/08
	ASTM D 6222	G6850.11.08	11/05/08
	ASTM D 6222	G6850.10.08	10/06/08
	ASTM D 3909	G6850.08.07-1	08/13/07
	ASTM D 3909	G30250.02.10-3	02/15/10
Exterior Research and Design, LLC	TAS 114	18035.12.02-2	12/24/02
	ASTM D 5147	18034.03.03-2	04/23/03
	TAS 114	01501.04.03	04/03/03
	TAS 114	01516.04.06	04/20/06
	TAS 114	G4280LAB.10.06	10/20/06
Atlantic & Caribbean Roof Consulting	TAS 114	07-079	12/13/07
	TAS 114	08-044	07/01/08

APPROVED ASSEMBLIES:

Deck Type 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank

System Type A: Optional Fire Barrier over the deck. All layers of insulation are adhered to a mechanically attached anchor sheet. Membrane fully or partially adhered.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer (Table 2) (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
EnergyGuard™ PolyIso, EnergyGuard™ RA, EnergyGuard™ RN or EnergyGuard™ Ultra		
Minimum 1" thick	**N/A**	**N/A**

Top Insulation Layer (Table 2)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck® or Securock™		
Minimum 1/4" thick	**N/A**	**N/A**

Note: All layers of insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range at a rate of 20-40 lbs/100 sq. ft. or in 3/4" to 1" wide beads 6" o.c. of Olympic OlyBond500™ Adhesive or Olympic OlyBond Adhesive Fastener at a rate of 1 gal./100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Fire Barrier: (Optional) VersaShield®, Dens Deck® or Securock™.

Anchor sheet: GAFGLAS® #80 ULTIMA™ Base Sheet, GAFGLAS® # 75 Base Sheet, GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6, GAFGLAS® Stratavent® Eliminator™ Nailable Base Sheet, RUBEROID® 20 or RUBEROID® Mop Smooth mechanically fastened to deck as described; Anchor sheet attached to deck with approved annular ring shank nails and tin caps at a fastener spacing of 9" o.c. at the lap staggered and in two rows 12" o.c. in the field.

Ply Sheet: (Optional) One or more layers of Liberty™ SBS Self-Adhering Base/Ply Sheet, self-adhered.

Membrane: One layer of Liberty™ SBS Self-Adhering Cap Sheet self-adhered or One or more layers of RUBEROID® SBS Heat-Weld™ 25, RUBEROID® EnergyCap™ SBS Heat Weld Plus, RUBEROID® SBS Heat-Weld™ Smooth, RUBEROID® SBS Heat-Weld™ Granule, RUBEROID® SBS Heat-Weld™ 170 FR, RUBEROID® SBS Heat-Weld™ Plus FR or RUBEROID® SBS Heat-Weld™ Plus, applied according to manufacturer's application instructions.

Surfacing: (Optional, required over RUBEROID® SBS Heat-Weld™ 25 or RUBEROID® SBS Heat-Weld™ Smooth) Install one of the following:

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq. or applied in a flood coat of Leak Buster™ Matrix™ 103 Cold Process Adhesive applied at a rate of 3 gal./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Leak Buster™ Matrix™ 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.
4. Leak Buster™ Matrix™ 715, Leak Buster™ Matrix™ 322, TOPCOAT® MB Plus, TOPCOAT® Fireshield Elastomeric Roofing Membrane, applied at 1 to 1.5 gal./sq.
5. Leak Buster™ Matrix™ 602 MB Xtra Elastomeric Roofing Membrane, EnergyCote™ roof coating applied at 1 to 1.5 gal./sq.
6. TOPCOAT® Surface Seal SB, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1to 1.5 gal./sq.

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

Deck Type 1I: Wood, Insulated

Deck Description: Min. $^{15}/_{32}$" plywood to supports max. 24" o.c. with 8d common nails max. 6" o.c.

System Type C(1): Optional Fire Barrier over the deck. Top layer of insulation is simultaneously mechanically attached with optional layer of base insulation to the deck. Membrane fully or partially adhered.

All General and System Limitations apply.

Fire Barrier: (Optional) VersaShield®, Dens Deck® or Securock™.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional) (Table 2)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved rigid board insulation (EnergyGuard™ PolyIso, EnergyGuard™ RA, EnergyGuard™ RN or EnergyGuard™ Ultra) (Loose laid)	**N/A**	**N/A**

Top Insulation Layer (Table 2)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
EnergyGuard™ PolyIso Minimum 1.5" thick	**1 & 4**	**1:2**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The 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.

Base Sheet: Liberty™ SBS Self-Adhering Base/Ply Sheet.

Ply Sheet: (Optional) One or more layers of Liberty™ SBS Self-Adhering Base/Ply Sheet, self-adhered.

Membrane: One layer of Liberty™ SBS Self-Adhering Cap Sheet self-adhered or One or more layers of RUBEROID® SBS Heat-Weld™ 25, RUBEROID® EnergyCap™ SBS Heat Weld Plus, RUBEROID® SBS Heat-Weld™ Smooth, RUBEROID® SBS Heat-Weld™ Granule, RUBEROID® SBS Heat-Weld™ 170 FR, RUBEROID® SBS Heat-Weld™ Plus FR or RUBEROID® SBS Heat-Weld™ Plus, applied according to manufacturer's application instructions.

Surfacing: (Optional, required over RUBEROID® SBS Heat-Weld™ 25 or RUBEROID® SBS Heat-Weld™ Smooth) Install one of the following:

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq. or applied in a flood coat of Leak Buster™ Matrix™ 103 Cold Process Adhesive applied at a rate of 3 gal./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Leak Buster™ Matrix™ 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.
4. Leak Buster™ Matrix™ 715, Leak Buster™ Matrix™ 322, TOPCOAT® MB Plus, TOPCOAT® Fireshield Elastomeric Roofing Membrane, applied at 1 to 1.5 gal./sq.
5. Leak Buster™ Matrix™ 602 MB Xtra Elastomeric Roofing Membrane, EnergyCote™ roof coating applied at 1 to 1.5 gal./sq.
6. TOPCOAT® Surface Seal SB, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1to 1.5 gal./sq.

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

Deck Type 1I: Wood, Insulated

Deck Description: Min. $^{15}/_{32}$" plywood to supports max. 24" o.c. with 8d common nails max. 6" o.c.

System Type C(2): Optional Fire Barrier over the deck. Top layer of insulation is simultaneously mechanically attached with optional layer of base insulation to the deck. Membrane fully or partially adhered.

All General and System Limitations apply.

Fire Barrier: (Optional) VersaShield®, Dens Deck® or Securock™.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional) (Table 2)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
Any approved rigid board insulation (EnergyGuard™ PolyIso, EnergyGuard™ RA, EnergyGuard™ RN or EnergyGuard™ Ultra) (Loose laid)	**N/A**	**N/A**

Top Insulation Layer (Table 2)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
DensDeck® DuraGuard™ Minimum 1/2" thick	**1 & 4**	**1:2**

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The 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.

Base Sheet: Liberty™ SBS Self-Adhering Base/Ply Sheet.

Ply Sheet: (Optional) One or more layers of Liberty™ SBS Self-Adhering Base/Ply Sheet, self-adhered.

Membrane: One layer of Liberty™ SBS Self-Adhering Cap Sheet self-adhered or One or more layers of RUBEROID® SBS Heat-Weld™ 25, RUBEROID® EnergyCap™ SBS Heat Weld Plus, RUBEROID® SBS Heat-Weld™ Smooth, RUBEROID® SBS Heat-Weld™ Granule, RUBEROID® SBS Heat-Weld™ 170 FR, RUBEROID® SBS Heat-Weld™ Plus FR or RUBEROID® SBS Heat-Weld™ Plus, applied according to manufacturer's application instructions.

Surfacing: (Optional, required over RUBEROID® SBS Heat-Weld™ 25 or RUBEROID® SBS Heat-Weld™ Smooth) Install one of the following:

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq. or applied in a flood coat of Leak Buster™ Matrix™ 103 Cold Process Adhesive applied at a rate of 3 gal./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Leak Buster™ Matrix™ 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.
4. Leak Buster™ Matrix™ 715, Leak Buster™ Matrix™ 322, TOPCOAT® MB Plus, TOPCOAT® Fireshield Elastomeric Roofing Membrane, applied at 1 to 1.5 gal./sq.
5. Leak Buster™ Matrix™ 602 MB Xtra Elastomeric Roofing Membrane, EnergyCote™ roof coating applied at 1 to 1.5 gal./sq.
6. TOPCOAT® Surface Seal SB, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1to 1.5 gal./sq.

Maximum Design Pressure: -52.5 psf (See General Limitation # 7)

Deck Type 1: Wood, Non-insulated

Deck Description: Min. $^{15}/_{32}$" plywood to supports max. 24" o.c. with 8d common nails max. 6" o.c.

System Type E(1): Optional Fire Barrier over the deck. Base Sheet is mechanically attached to the deck. Membrane fully or partially adhered.

All General and System Limitations shall apply.

Fire Barrier: (Optional) VersaShield®, Dens Deck® or Securock™.

Base Sheet: Liberty™ MA Mechanically Attached Base Sheet.

Fastening Options: Base sheet is mechanically attached to the deck with Drill-Tec™ #14 Fasteners and Drill-Tec™ 3" Galvalume Plates, 8" o.c. in the 3" laps and 8" o.c. in two staggered rows in the field.
(Maximum Design Pressure –60 psf, See General Limitation #7)

Base sheet is mechanically attached to the deck with FBC HVHZ tin-caps and nails at 8" o.c. in the 3" laps and 8" o.c. in three equally spaced, staggered rows in the field of the sheet.
(Maximum Design Pressure –45 psf, See General Limitation #7)

Ply Sheet: (Optional) One or more layers of Liberty™ SBS Self-Adhering Base/Ply Sheet.

Cap Sheet: One layer of Liberty SBS Self-Adhering Cap Sheet self adhered or One or more layers of RUBEROID® SBS Heat-Weld™ 25, RUBEROID® EnergyCap™ SBS Heat Weld Plus, RUBEROID® SBS Heat-Weld™ Smooth, RUBEROID® SBS Heat-Weld™ Granule, RUBEROID® SBS Heat-Weld™ 170 FR, RUBEROID® SBS Heat-Weld™ Plus FR or RUBEROID® SBS Heat-Weld™ Plus, applied according to manufacturer's application instructions.

Surfacing: (Optional, required over RUBEROID® SBS Heat-Weld™ 25 or RUBEROID® SBS Heat-Weld™ Smooth) Install one of the following:

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq. or applied in a flood coat of Leak Buster™ Matrix™ 103 Cold Process Adhesive applied at a rate of 3 gal./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Leak Buster™ Matrix™ 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.
4. Leak Buster™ Matrix™ 715, Leak Buster™ Matrix™ 322, TOPCOAT® MB Plus, TOPCOAT® Fireshield Elastomeric Roofing Membrane, applied at 1 to 1.5 gal./sq.
5. Leak Buster™ Matrix™ 602 MB Xtra Elastomeric Roofing Membrane, EnergyCote™ roof coating applied at 1 to 1.5 gal./sq.
6. TOPCOAT® Surface Seal SB, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1to 1.5 gal./sq.

Maximum Design Pressure: See fastening options above

Deck Type 1: Wood, Non-insulated

Deck Description: Min. $^{19}/_{32}$" CDX plywood nailed to 6" o.c. at the field of the sheet with #8 ring shank nails and 4" o.c. at the perimeter of the sheet with #10 ring shank nails. Plywood installed over wood rafters spaced 24" o.c.

System Type E(2): Optional Fire Barrier over the deck. Base Sheet is mechanically attached to the deck. Membrane fully or partially adhered.

All General and System Limitations shall apply.

Fire Barrier: (Optional) VersaShield®, Dens Deck® or Securock™.

Base Sheet: GAF StormSafe™ base sheet fastened to the plywood deck using Drill-Tec™ Standard #12 screws and 3" Drill-Tec™ Accutrac Flat bottom plates or Drill-Tec™ AccuTrac Plate spaced 9"o.c. at the 4" side laps and 3 rows spaced 9"o.c. in the field of the sheet.

Ply Sheet: (Optional) One or more layers of Liberty™ SBS Self-Adhering Base/Ply Sheet.

Cap Sheet: One or more layers of Liberty SBS Self-Adhering Cap Sheet self adhered. Seams sealed by applying TOPCOAT® SB900 or Flexseal.

Surfacing: (Optional) Install one of the following:

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq. or applied in a flood coat of Leak Buster™ Matrix™ 103 Cold Process Adhesive applied at a rate of 3 gal./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® EnergyCap™ Mineral Surfaced Capsheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Leak Buster™ Matrix™ 303 Premium Fibered Aluminum Roof Coating, at 1.5 gal./sq.
4. Leak Buster™ Matrix™ 715, Leak Buster™ Matrix™ 322, TOPCOAT® MB Plus, TOPCOAT® Fireshield Elastomeric Roofing Membrane, applied at 1 to 1.5 gal./sq.
5. Leak Buster™ Matrix™ 602 MB Xtra Elastomeric Roofing Membrane, EnergyCote™ roof coating applied at 1 to 1.5 gal./sq.
6. TOPCOAT® Surface Seal SB, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1to 1.5 gal./sq.

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

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 side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform 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 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE