

**Liberty™ SBS Self-Adhering
Modified Bitumen Roofing Systems
Over Lightweight Insulating Concrete Decks**

**Miami-Dade County
Notice of Acceptance (NOA)**

Updated: 4/09



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North America's Largest Roofing Manufacturer!™*

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**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 Florida Building Code and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Liberty™ SBS Self-Adhering Modified Bitumen Roofing Systems Over Lightweight Insulating Concrete 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 new NOA consists of pages 1 through 11
The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Deck Type:	Lightweight Concrete
Material:	SBS
Maximum Design Pressure:	-337.5 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-6162 ASTM D 5147	Self-adhered, SBS modified, fiberglass reinforced membrane for base or ply sheet applications.
Liberty™ SBS Self-Adhering Cap Sheet	39.375" x 34'	ASTM D-6162 ASTM D 5147	Self-adhering, SBS modified, polyester / fiberglass composite reinforced cap sheet
Liberty™ FR SBS Self-Adhering Cap Sheet	39.375" x 34'	ASTM D-6162 ASTM D 5147	Self-adhering, SBS modified, polyester / fiberglass composite reinforced cap sheet with fire retardants.
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.
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.
RUBEROID® EnergyCap™ SBS Heat Weld Plus FR	1 meter (39.37") wide	ASTM D-6164	A fiberglass mat reinforced, SBS modified bitumen cap membrane.



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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.
RUBEROID® Torch Smooth	39.37" (1 meter) wide	ASTM D-6222 ASTM D-5147	Heavy duty, polyester reinforced, asphalt modified bitumen membrane.
RUBEROID® Torch Granule	39.37" (1 meter) wide	ASTM D-6222 ASTM D-5147	Asphalt impregnated, coated felt, surfaced with mineral granules.
RUBEROID® Mop Smooth	39.37" (1 meter) wide	ASTM D 6298 ASTM D 5147	Non-woven polyester mat coated with polymer-modified asphalt and smooth surfaced.
RUBEROID® Torch Plus	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® Torch FR	39.37" (1 meter) wide	ASTM D-6222 ASTM D-5147	Heavy Duty polyester reinforced, asphalt modified bitumen membrane.
RUBEROID® Torch 170 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.
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.
TOPCOAT® MB Plus	5, 55 gallons	ASTM D-412, ASTM D-21-96, ASTM D-1475, ASTM E-1644	Water-based, low VOC, sprayable polymeric liquid, which cures to form a seamless rubber membrane.
TOPCOAT® Fireshield Elastomeric Roofing Membrane		ASTM D-3412 ASTM D-21-96 ASTM D-1475 ASTM E-1644 ASTM D-6083	Surface coating for smooth surfaced and mineral surfaced roofs with fire prevention additives.
TOPCOAT® Fireshield SB		ASTM D-412 ASTM B-117 ASTM C-794 ASTM G-21 FTMS 141.6271 ASTM D-21-96 ASTM D-1475 ASTM E-1644	Surface coating for smooth surfaced and mineral surfaced roofs.



Product	Dimensions	Test Specification	Product Description
EnergyCote® Elastomeric Coating		Proprietary	Surface coating for smooth surfaced and mineral surfaced roofs.
TOPCOAT® Surface Seal SB	5, 55 gallons	ASTM D-412, ASTM B-117, ASTM C-794, ASTM G-21, FTMS141.6271, ASTM D-21-96, ASTM D-1475, ASTM E-1644	Solvent-based, sprayable thermoplastic rubber liquid, which cures to form a seamless rubber membrane.
Leak Buster™ Matrix™ 103 Cold Process Adhesive	5 gallons	ASTM D3019	Cold Applied Asphalt Adhesive.
LeakBuster™ MATRIX™ 303 Premium Fibered Aluminum Roof Coating	1, 5 gallons	ASTM D 2824	Fibered aluminum coating.
Leak Buster™ Matrix™ 322 Elastomeric Roof Coating	5, 55 gallons	ASTM D-1653, ASTM D-12, ASTM E-470 ASTM D-6038	Styrene acrylic-based roof coating that forms a seamless and flexible layer of protection for your roof.
Leak Buster™ 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-21-96, ASTM D-1475 and ASTM E-1644.	Surface coating for smooth surfaced and mineral surfaced roofs.
Leak Buster™ Matrix™ 715 MB Elastomeric Roofing Membrane	5, 55 gallons	ASTM D-412, ASTM D-21-96, ASTM D-1475, ASTM E-1644	Surface coating for smooth surfaced and mineral surfaced and roofs.
StormSafe	48" wide	Proprietary	Synthetic Underlayment



APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
N/A	N/A	N/A

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec™ 1.2 Base Sheet Fastener	Insulation fastener for concrete and gypsum.	1.2" Length	GAF Materials Corp

EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corp	4470	3029832	05/11/07
	4470	3024805	11/20/06
Atlantic & Caribbean Roof Consulting	TAS 114-95	07-018	04/20/07
		07-030	05/09/07
		07-044	10/05/07
IRT-Arcon Inc	TAS 114-95	01-036	01/23/02
		04-008	01/26/04
Florida Testing Engineering & Consulting, Inc.	TAS 114-95	08-050181	06/26/08
		08-050188	06/28/08
Exterior Research & Design	TAS 114	G420LAB.10.06-RI	10/20/06
		02764.09.05	09/09/05
Trinity ERD	Physical Properties	G121110.12.08	12/02/08



APPROVED ASSEMBLIES:

- Membrane Type:** SBS, Self-Adhered
- Deck Type 4:** Lightweight Insulating Concrete, Non -Insulated
- Deck Description:** Mearlcrete lightweight Insulating concrete with a minimum compressive strength of 300 psi over minimum 22 gauge, 1.5 B steel deck attached to supports with 5/8" puddle welds and the side laps attached with #10 TEK screws at 6" o.c. with a maximum 6 ft bar joist spacing.
- System Type E:** Membrane and/or anchor sheet mechanically attached to roof deck.
- Base Sheet:** StormSafe™ Anchor Sheet mechanically fastened as described below.
- Fasteners:** Drill Tec™ CR 1.2 Base Sheet Fasteners, one row on the 4" laps at 7.5" o.c. and three center rows staggered at 12" o.c.
- Interply (Optional)** One or more layers of Liberty™ Base/Ply Sheet self adhered applied according to manufacturer's application instructions.
- Cap Sheet:** One or more layers of Liberty™ SBS Self Adhering Cap or Liberty™ FR SBS Self Adhering Cap Sheet with minimum 3" wide laps applied according to manufacturer's application instructions.
- 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, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.
 7. Advance Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes

Maximum Design

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



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Membrane Type: SBS, Self-Adhered/ Heat Welded

Deck Type 4: Lightweight Insulating Concrete, Non -Insulated

Deck Description: Minimum two (2") inches of thickness of Elastizel lightweight insulated concrete with a minimum compressive strength of 250-300 psi over 3,000 psi structural concrete.

System Type F(1): Membrane and/or anchor sheet is fully adhered directly to the primed deck.

All General and System Limitations apply.

Primer: GAF TOPCOAT® Surface Seal SB applied at a ratio of 1 to 1.5 gallons per square to the deck.

Base Sheet: One layer of Liberty™ Base/Ply Sheet self-adhered to the primed Elastizel lightweight insulation concrete deck applied according to manufacturer's application instructions with a minimum 4" lap.

Membrane: One or more layers of or GAF RUBEROID® SBS Heat-Weld Granular, RUBEROID® SBS Heat-Weld Smooth, RUBEROID® EnergyCap™ SBS Heat Weld Plus FR or RUBEROID® SBS Heat Weld 170 FR with minimum 3" wide laps applied according to manufacturer's application instructions.

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, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.
7. Advance Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes

Maximum Design

Pressure: -157.5 psf (See General Limitation #9)



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Membrane Type: SBS, Self-Adhered/Heat-Welded

Deck Type 4: Lightweight Insulating Concrete, Non -Insulated

Deck Description: Minimum two (2") inches of thickness of Celcore lightweight insulating concrete with a minimum compressive strength of 250-300 psi over 3,000 psi structural concrete

System Type F(2): Membrane and /or anchor sheet is fully adhered directly to the primed deck.

All General and System Limitations apply.

Primer: GAF TOPCOAT[®] Surface Seal SB applied at a ratio of 1 to 1.5 gallons per square to the deck.

Base Sheet: One layer of Liberty[™] Base/Ply Sheet self-adhered to the primed Elastizel lightweight insulation concrete deck applied according to manufacturer's application instructions with a minimum 4" lap.

Membrane: One or more layers of or GAF RUBEROID[®] SBS Heat-Weld Granular, RUBEROID[®] SBS Heat-Weld Smooth, RUBEROID[®] EnergyCap[™] SBS Heat Weld Plus FR or RUBEROID[®] SBS Heat Weld 170 FR with minimum 3" wide laps applied according to manufacturer's application instructions.

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, TOPCOAT[®] Fireshield[®] SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.
7. Advance Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes

Maximum Design

Pressure: -220.0 psf (See General Limitation #9)



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Membrane Type: SBS, Self-Adhered

Deck Type 4: Lightweight Insulating Concrete, Non -Insulated

Deck Description: Minimum two (2") inches of thickness of LWC Products lightweight Insulating concrete with a minimum compressive strength of 300 psi over 3,000 psi structural concrete.

System Type F(3): Membrane and /or anchor sheet is fully adhered directly to the primed deck.

All General and System Limitations apply.

Primer: GAF TOPCOAT® Surface Seal SB bonding adhesive applied at the rate of 1½ gallons per square to the deck.

Base Sheet: One layer of Liberty™ Base/Ply Sheet self-adhered to the primed LWC Products lightweight insulation concrete deck applied according to manufacturer's application instructions with a minimum 4" lap.

Membrane: One layer of GAF Liberty™ SBS SA Cap or Liberty™ FR SBS Self Adhering Cap Sheet, self adhered and over ribbons of GAF TOPCOAT® Surface Seal SB bonding adhesive applied 12" o.c. and ¼" wide to the base sheet.

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, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.
7. Advance Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes

Maximum Design

Pressure: -102.5 psf (See General Limitation #9)



Membrane Type: SBS, Self-Adhered/Heat-Weld

Deck Type 4: Lightweight Insulating Concrete, Non -Insulated

Deck Description: Minimum two (2") inches of thickness of Mearlcrete lightweight Insulating concrete with a minimum compressive strength of 300 psi over 2,500 psi structural concrete.

System Type F(4): Membrane and/or anchor sheet adhered to roof deck.

Primer: GAF TOPCOAT® Surface Seal SB applied at 1 to 1½ gallons per 100 sq. ft. to the deck.

Base Sheet: One layer of Liberty™ Base/Ply Sheet self-adhered to the primed Mearlcrete lightweight insulation concrete deck applied according to manufacturer's application instructions with a minimum 4" lap.

Membrane: One or more layers of or GAF RUBEROID® SBS Heat-Weld Granular, RUBEROID® SBS Heat-Weld Smooth, RUBEROID® EnergyCap™ SBS Heat Weld Plus FR or RUBEROID® SBS Heat Weld 170 FR with minimum 3" wide laps applied according to manufacturer's application instructions.

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, TOPCOAT® Fireshield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.
7. Advance Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes

Maximum Design

Pressure: -337.50 psf (See General Limitation #9)



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LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 250 psi.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each 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 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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