



**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 EverGuard® TPO Single Ply Roofing System over Lightweight 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 NOA revises NOA No. 04-0723.01 and consists of pages 1 through 14.
The submitted documentation was reviewed by Jorge L. Acebo.



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Expiration Date: 04/16/09
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ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	TPO, Single Ply Roofing
Deck Type:	Lightweight Concrete
Maximum Design Pressure	-277.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
EverGuard® TPO Membrane (White, Grey and Tan)	Various	ASTM D 6878	Thermoplastic Olefin reinforced membrane.
EverGuard® TPO (45, 60, 80) Membrane	Various	ASTM D 6878	Thermoplastic Olefin reinforced, fleecebacked membrane.
EverGuard® TSR-45 Utility Flashing Membrane	Various	ASTM D 6878	Reinforced flashing membrane.
EverGuard® UN-60 Detailing Membrane	Various	ASTM D 6878	60 mil unreinforced flashing membrane.
EverGuard® Coated Metal	4' x 8' 4' x 10' sheets	US CS-245-62	EverGuard membrane laminated 24 Ga. galvanized steel.
EverGuard® Preformed Corners	4" x 4" x 4" 20 pcs. Crtn.	ASTM D 4434	Prefabricated molded one piece corners.
EverGuard® Preformed Vent Boots	1" - 8" o.d 6 pcs. Crtn.	ASTM D 4434	Premolded vent pipe boots.
EverGuard® TPO Bonding Adhesive	5 gallon pails	proprietary	Adhesive for fully adhered systems and membrane flashing.
EverGuard® H ₂ O Bonding Adhesive	5 gallons	Proprietary	Water based adhesive for fully adhered systems and membrane flashing.
EverGuard® TPO Cut Edge Sealant	1 quart squeeze tube	Proprietary	Solvent based sealant for TPO cut edges.
EverGuard® Aluminum Termination Bar	1/8 x 1" x 10	TAS 114	Lip termination bar.
EverGuard® Expansion Joint Cover	4"-8" x 50'		Low profile expansion joint cover.
EverGuard® Standard Walkway	1/8" x 30" x 36"		Standard duty walkway pad.
EverGuard® Heavy Duty Walkway	1/4" x 30" x 36"		Heavy-duty walkway pad.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
FireOut™ Fire Barrier Coating	N/A	N/A	Low VOC, water-base coating system that provides outstanding flame spread and penetration to combustible roof decks in the event of fire.
FireShield® MB	5, 55 gallons	ASTM D412 ASTM D21 ASTM D1475 ASTM E 1644	Water-base sprayable thermoplastic rubber liquid, which cures to form a seamless rubber membrane.
FireShield® SB	5, 55 gallons	ASTM B117 ASTM C794 ASTM G21 FTMS 141,6271 ASTM D 412 ASTM D2196 ASTM D1475 ASTM E 1644	Solvent-base sprayable thermoplastic rubber liquid, which cures to form a seamless rubber membrane.
Topcoat® MB Plus	5, 55 gallons	ASTM D412 ASTM D21 ASTM D1475 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 D412 ASTM B117 ASTM C794 ASTM G21 FTMS 141.6271 ASTM D 21 ASTM D1475 ASTM E1644	Solvent-based, sprayable thermoplastic rubber liquid, which cures to form a seamless rubber membrane.
StormSafe™ (P015) Underlayment	48" x 600'	Proprietary	Synthetic polyethylene underlayment used as an anchor sheet beneath Freedom TPO SA material



APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard® PolyIso	Polyisocyanurate foam insulation	GAF Materials Corp.
EnergyGuard® Ultra PolyIso	Polyisocyanurate foam insulation	GAF Materials Corp.
EnergyGuard® RA, RN	Polyisocyanurate foam insulation	GAF Materials Corp.
EnergyGuard® Composite RA, RN	Polyisocyanurate foam insulation with high-density fiberboard or Permalite perlite insulation.	GAF Materials Corp.
EnergyGuard® Perlite	Perlite insulation board.	GAF Materials Corp.
EnergyGuard High Density Fiberboard	High density wood fiberboard insulation.	GAF Materials Corp.
EnergyGuard® Composite	Polyisocyanurate/wood fiberboard composite.	BMCA
Dens Deck, Dens Deck Prime™	Water-resistant gypsum board	Georgia Pacific
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 & #14 HD Roofing	Insulation fastener for steel, wood & concrete decks.		GAF Materials Corp.
2.	Drill-Tec® #15 XHD Roofing Fasteners	Self tapping coated screw w/#3 Phillips head.		GAF Materials Corp.
3.	Drill-Tec® XHD	AZ55 Galvalume coated barber steel plate used with fastener.	2-3/8" dia	GAF Materials Corp.
4.	Drill-Tec® HD Plate	AZ55 Galvalume coated barbed steel plate used with fastener.	2" dia	GAF Materials Corp.
5.	Drill-Tec® Membrane Plates	Round 2" nylon reinforced seam plate.	2" round	GAF Materials Corp.
6.	Drill-Tec® Plastic Insulation Plates	Round 3" plastic plate.	3" round	GAF Materials Corp.
7.	Drill-Tec® Metal Insulation Plates	Round 3" galvalume plate.	3" round	GAF Materials Corp.



APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
8.	Drill-Tec® SXHD	Self tapping coated carbon steel screw w/#3 Phillips head.		GAF Materials Corp.
9.	Drill-Tec® SXHD Plates	AZ55 Galvalume coated double barbed steel plate used with fastener.	2-3/4" dia	GAF Materials Corp.
10.	Drill-Tec™ AccuTrac Plate Steel Plates	Square Galvalume stress plates.	3 x 3	GAF Materials Corp.

EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corp.	4470	3003617	12/20/99
		3015578	05/12/04
		3015029	02/19/04
	4450	3023458	07/18/06
		3026964	07/25/07
Underwriters Laboratories	File R1306	Fire Classification	05/20/99
IRT-ARCON, Inc.	TAS 114	01-035	12/18/01
	TAS 114	02-007	01/24/02
	TAS 114	04-011	02/20/04
	TAS 114	04-007	02/17/04
	TAS 114	04-014	02/17/04
	TAS 114	07-026	05/03/07



APPROVED ASSEMBLIES:

- Deck Type 4:** Lightweight Concrete
- Deck Description:** Cellular Lightweight concrete over minimum 2500 psi Structural Concrete or minimum 22 ga Steel deck.
- System Type E(1):** Membrane mechanically attached to deck

All General and System Limitations apply.

Steel Deck: Minimum 22 ga. Grade E steel deck secured to minimum ¼” thick supports space at maximum 6 ft o.c. with ITW Buildex Traxx/4 or Traxx/5 spaced at 6” o.c. Deck side laps are secured with ITW Buildex Traxx/1 fasteners spaced at maximum 30” o.c.

Lightweight Concrete: Any approved cellular lightweight insulating concrete. Having current NOA.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder may be installed over the deck.

Barrier: None.

Membrane: EverGuard® TPO 45, 60, 80 Membrane attached through the lightweight concrete to the underlying steel deck as specified below.

Fastening #1: Fasteners installed through LWC to steel deck. Membrane is mechanically attached using Drill-Tec #15 XHD Fasteners and Drill-Tec XHD Plates spaced 6” o.c. within minimum 5” wide laps. Laps are spaced at maximum 114.5” o.c. and sealed with a minimum 1.75” wide heat weld.
(Maximum Design Pressure –45 psf; See General Limitation #7)

Fastening #2: Fasteners installed through LWC to steel deck. Membrane is mechanically attached using Drill-Tec #15 XHD Fasteners and Drill-Tec HD Plates spaced 6” o.c. within minimum 5” wide laps. Laps are spaced at maximum 114.5” o.c. and sealed with a minimum 5” wide heat weld.
(Maximum Design Pressure –67.5 psf; See General Limitation #7)

- Surfacing:**
(Optional)
1. Advanced Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer’s specifications and applicable Building Codes.
 2. EverGuard® self-adhering Standing Seam Architectural Profiles installed in compliance with manufacturer’s specifications and applicable Building Codes.
 3. TOPCOAT® Surface Seal, TOPCOAT® FireShield® SB Solvent based Elastomeric Roofing Membrane applied at 1to 1.5 gal./sq.

Maximum Design Pressure: See Fastening Options Above



Deck Type 4: Lightweight Concrete

Deck Description: Cellular Lightweight concrete over minimum 2500 psi Structural Concrete or minimum 22 ga Steel deck.

System Type E(2): Base sheet mechanically attached, subsequent membrane adhered.

All General and System Limitations apply.

Steel Deck: Minimum 22 ga. Type B steel deck secured to steel supports at maximum span of 6 ft o.c. Steel deck shall be fastened with 5/8" puddle welds and washers at a maximum spacing of 6" o.c. Side laps shall be fastened with ITW Buildex Traxx/1 fasteners spaced at maximum 24" o.c.

Lightweight Concrete: Minimum 300 psi. cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an option minimum 2" thick Apache Holey Board and a minimum 2" thick top coat.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder may be installed over the deck.

Barrier: None

Base Sheet: One ply of GAFGLAS® #80 Ultima™ Base Sheet, STRATAVENT® Eliminator Perforated Nailable or RUBEROID® 20 base sheet mechanically fastened as described below;

Fastening: Fasteners installed through LWC to steel deck. Drill-Tec® CR Base Fasteners and Plates at a fastener spacing of 7" o.c. at a 3" lap and in two staggered rows 7" o.c. in the field

Membrane: EverGuard® TPO FB-45, FB 60 or FB Membrane adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing:
(Optional)

1. Advanced Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes.
2. EverGuard® self-adhering Standing Seam Architectural Profiles installed in compliance with manufacturer's specifications and applicable Building Codes.
3. TOPCOAT® Surface Seal, TOPCOAT® FireShield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.

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



- Deck Type 4:** Lightweight Concrete
- Deck Description:** Cellular Lightweight concrete over minimum 2500 psi Structural Concrete or minimum 22 ga Steel deck.
- System Type E(3):** Membrane mechanically attached to deck.

All General and System Limitations apply.

- Steel Deck:** Minimum 22 ga. Grade 80 steel deck secured to minimum ¼” thick supports space at maximum 6 ft o.c. with ITW Buildex Traxx/5 spaced at 6” o.c. Deck side laps are secured with ITW Buildex Traxx/1 fasteners spaced at maximum 24” o.c.
- Lightweight Concrete:** Minimum 300 psi. cellular lightweight concrete deck applied with a minimum 1/8” slurry coat followed by an option minimum 2” thick Apache Holey Board and a minimum 2” thick top coat.
- Vapor Retarder:** (Optional) Any UL or FMRC approved vapor retarder may be installed over the deck or the base layer of insulation.
- Barrier:** (Optional) ½” or 5/8” gypsum, Securock™ or Dens Deck® secured to the deck with the insulation.
- Membrane:** EverGuard® TPO 45, 60, 80, EverGuard™ TPO FB 45, FB 60 or FB 80 Membrane attached through to the underlying steel deck as specified below.
- Fastening #1:** Fasteners installed through LWC to steel deck. Membrane is mechanically attached using Drill-Tec® SXHD Fasteners and Drill-Tec® 2-3/4” Barbed SXHD Plates spaced 12” o.c. within minimum 5.5” wide laps. Laps are spaced at maximum 114.5” o.c. and sealed with a minimum 1.5” wide heat weld.
(Maximum Design Pressure –45 psf; See General Limitation #7)
- Fastening #2:** Fasteners installed through LWC to steel deck. Membrane is mechanically attached using EverGuard® XHD Fasteners and EverGuard® 2-3/8” XHD Plates spaced 6” o.c. within minimum 6” wide laps. Laps are spaced at maximum 112.5” o.c. and sealed with a minimum 1-5/8” wide heat weld.
(Maximum Design Pressure –52.5 psf; See General Limitation #7)
- Fastening #3:** Fasteners installed through LWC to steel deck. Membrane is mechanically attached using Drill-Tec® XHD Fasteners and Drill-Tec® 2-3/8” Barbed XHD Plates or Drill-Tec® 2” Double Barbed XHD Plates spaced 6” o.c. within minimum 5” wide laps. Laps are spaced at maximum 115” o.c. and sealed with a minimum 1.5” wide heat weld.
(Maximum Design Pressure –52.5 psf; See General Limitation #7)
- Fastening #4:** Fasteners installed through LWC to steel deck. Membrane is mechanically attached using Drill-Tec® XHD Fasteners and Drill-Tec® 2-3/4” Barbed SXHD Plates spaced 6” o.c. within minimum 6” wide laps. Laps are spaced at maximum 114” o.c. and sealed with a minimum 1.5” wide heat weld.
(Maximum Design Pressure –60 psf; See General Limitation #7)



Surfacing:
(Optional)

1. Advanced Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes.
2. EverGuard® self-adhering Standing Seam Architectural Profiles installed in compliance with manufacturer's specifications and applicable Building Codes.
3. TOPCOAT® Surface Seal, TOPCOAT® FireShield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.

Maximum Design

Pressure: See Fastening Options Above



Deck Type 4: Lightweight Concrete

Deck Description: Celcore Cellular Lightweight Concrete over minimum 2500 psi Structural Concrete or minimum 22 ga Steel deck.

System Type F(1): Membrane adhered to roof deck.

All General and System Limitations apply.

Steel Deck: Minimum 22 ga. Type B steel deck secured to steel supports at maximum span of 5 ft o.c. Steel deck shall be fastened with 5/8" puddle welds and washers at a maximum spacing of 6" o.c. and tech screws at 12" o.c. Side laps shall be fastened with ITW Buildex Traxx/1 fasteners spaced at maximum 24" o.c.

Lightweight Concrete: Minimum 300 psi. cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an option minimum 2" thick Apache Holey Board and a minimum 2" thick top coat.

Membrane: EverGuard® TPO 45, 60, 80, EverGuard® TPO FB 45, FB 60 or FB 80 Membrane attached as specified below.

Fastening : Membrane is adhered using EverGuard® H2O Bonding Adhesive 7885S01 roller applied to the underside of the membrane and to the substrate at a combined 0.83 gal/sq. (0.34 l/m²). One half of the adhesive was applied to the substrate and one half was applied to the bottom of the roof cover. The adhesive was allowed to dry and become tacky and the roof cover was then mated with the insulation and the top surface broomed and rolled with a weighted roller measuring approximately 18 in. (455 mm) in diameter and half filled with water

Surfacing:
(Optional)

1. Advanced Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes.
2. EverGuard® self-adhering Standing Seam Architectural Profiles installed in compliance with manufacturer's specifications and applicable Building Codes.
3. TOPCOAT® Surface Seal, TOPCOAT® FireShield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.

Maximum Design Pressure:

-52.5 psf (See General Limitation #9)



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Deck Type 4: Lightweight Concrete

Deck Description: Celcore Cellular Lightweight Concrete over minimum 2500 psi Structural Concrete.

System Type F(2): Membrane adhered to roof deck.

All General and System Limitations apply.

Concrete Deck: 2500 psi. structural concrete

Lightweight Concrete: Minimum 300 psi. cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an option minimum 2" thick Apache Holey Board and a minimum 2" thick top coat.

Membrane: EverGuard® TPO 45, 60, 80 EverGuard® TPO FB 45, FB 60 or FB 80 Membrane attached as specified below.

Fastening : Membrane is adhered using EverGuard® H2O Bonding Adhesive 7885S01 roller applied to the underside of the membrane and to the substrate at a combined 0.83 gal/sq. (0.34 l/m2). One half of the adhesive was applied to the substrate and one half was applied to the bottom of the roof cover. The adhesive was allowed to dry and become tacky and the roof cover was then mated with the insulation and the top surface broomed and rolled with a weighted roller measuring approximately 18 in. (455 mm) in diameter and half filled with water.

Surfacing:
(Optional)

1. Advanced Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes.
2. EverGuard® self-adhering Standing Seam Architectural Profiles installed in compliance with manufacturer's specifications and applicable Building Codes.
3. TOPCOAT® Surface Seal, TOPCOAT® FireShield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.

Maximum Design Pressure:

-277.5 psf (See General Limitation #9)



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Deck Type 4: Lightweight Concrete

Deck Description: Mearlcrete Lightweight Concrete over minimum 2500 psi Structural Concrete.

System Type F(3): Membrane adhered to roof deck.

All General and System Limitations apply.

Concrete Deck: 2500 psi. structural concrete

**Lightweight
Concrete:**

Minimum 300 psi. cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an option minimum 2" thick Apache Holey Board and a minimum 2" thick top coat.

Membrane: EverGuard® TPO 45, 60, 80, EverGuard® TPO FB 45, FB 60 or FB 80 Membrane attached as specified below.

Fastening : Membrane is adhered using EverGuard® H2O Bonding Adhesive 7885S01 roller applied to the underside of the membrane and to the substrate at a combined 0.83 gal/sq. (0.34 l/m²). One half of the adhesive was applied to the substrate and one half was applied to the bottom of the roof cover. The adhesive was allowed to dry and become tacky and the roof cover was then mated with the insulation and the top surface broomed and rolled with a weighted roller measuring approximately 18 in. (455 mm) in diameter and half filled with water

Surfacing:
(Optional)

1. Advanced Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes.
2. EverGuard® self-adhering Standing Seam Architectural Profiles installed in compliance with manufacturer's specifications and applicable Building Codes.
3. TOPCOAT® Surface Seal, TOPCOAT® FireShield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.

**Maximum Design
Pressure:**

-60 psf (See General Limitation #9)



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Deck Type 4: Lightweight Concrete

Deck Description: Elastizel Lightweight Concrete over minimum 3000 psi Structural Concrete.

System Type F(4): Membrane adhered to roof deck.

All General and System Limitations apply.

Concrete Deck: 3000 psi. structural concrete

Lightweight Concrete: Minimum of two (2") inches of thickness of Elastizel lightweight insulating concrete with a minimum compressive strength of 250 to 300 psi

Membrane: One ply of EverGuard TPO FB 45, 60, 80 fully adhered to Elastizel lightweight insulating concrete previously primed with GAF EverGuard® H2O bonding adhesive.

Surfacing:
(Optional)

1. Advanced Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specifications and applicable Building Codes.
2. EverGuard® self-adhering Standing Seam Architectural Profiles installed in compliance with manufacturer's specifications and applicable Building Codes.
3. TOPCOAT® Surface Seal, TOPCOAT® FireShield® SB Solvent based Elastomeric Roofing Membrane applied at 1 to 1.5 gal./sq.

Maximum Design Pressure: -260 psf (See General Limitation #9)



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 Engineer, 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 referenced consult current lightweight insulating concrete NOA for specific deck construction and limitations. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 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 and/or RAS 137. 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 to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**

END OF THIS ACCEPTANCE



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