MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

GAF
1 Campus Drive
Parsippany, NJ 07054

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 RER - 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. RER 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 EverGuard® TPO Single Ply Roofing Systems over 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 renews and revises NOA No. 16-0615.05 and consists of pages 1 through 49.
The submitted documentation was reviewed by Jorge L. Acebo.

MIAMI-DADE COUNTY APPROVED

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply Roofing
Material:	TPO
Deck Type:	Concrete
Maximum Design Pressure:	-502.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO	Various	ASTM D 6878 TAS 131	Thermoplastic olefin reinforced single-ply membrane.
EverGuard Extreme® TPO	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced single-ply membrane designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO FB Ultra	Various	ASTM D 6878 TAS 131	Thermoplastic olefin reinforced, fleece back single-ply membrane
EverGuard Extreme® TPO FB Ultra	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced fleece back single-ply membrane designed for advanced protection against heat aging and UV degradation.
Liberty™ SBS Self-Adhering Cap Sheet	39 ⅜" x 34'	ASTM D6164 Type I	Granule surfaced self-adhering cap sheet reinforced with a polyester mat.
GAFGLAS® Ply 4	39.37" (1 meter) Wide	ASTM D2178	Smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
Tri-Ply® Ply 4	39.37" (1 meter) Wide	ASTM D2178	Smooth surfaced asphaltic ply sheet reinforced with a fiberglass mat.
GAFGLAS® FlexPly™ 6	39.37" (1 meter) Wide	ASTM D2178	Smooth surfaced asphaltic ply sheet reinforced with fiberglass mat.
EverGuard® #1121 Bonding Adhesive	5 gallons	Proprietary	Solvent based adhesive for fully adhered TPO systems and membrane flashing.
EverGuard® TPO 3 Square Low VOC Bonding Adhesive	5 gallons	Proprietary	Solvent based adhesive for fully adhered TPO systems and membrane flashing.
EverGuard® WB 181 Bonding Adhesive	5 gallons	Proprietary	Water-based bonding adhesive for use with smooth TPO, fleece backed TPO and fleece backed PVC membranes.
LRF Adhesive M	1:1 applicator	Proprietary	Two-part VOC free polyurethane foam adhesive.
LRF Adhesive O	1:1 applicator	Proprietary	Two-part VOC free polyurethane foam adhesive.
GAF 2-Part Roofing Adhesive	1:1 applicator	Proprietary	Two-part VOC free polyurethane foam adhesive.

Product	Dimensions	Test Specification	Product Description
EverGuard® Low VOC TPO Bonding Adhesive	5 gallons	Proprietary	Low VOC adhesive for TPO fully adhered systems and flashings.
Matrix™ 307 Premium Asphalt Primer	3, 5, 55 gallons	ASTM D41	Asphalt concrete primer used to promote adhesion of all types of asphalt-based roofing materials.
Topcoat® Membrane	1, 5 or 55 gallons	ASTM D6083	Water-based elastomeric coating.
Topcoat® MB Plus	5 or 55 gallons	Proprietary	Water based, low VOC primer designed to block asphalt bleed-through.
Topcoat® Surface Seal SB	5 gallons	ASTM D6083	Solvent-based thermoplastic rubber sealant designed to protect and restore aged roof surfaces and to increase roof reflectivity.
EverGuard® TPO Coated Metal	4' x 10' sheets	Proprietary	24 gauge steel with a 25 mil thick GAF TPO for edge detailing.
EverGuard® Extreme® TPO Coated Metal	4' x 10' sheets	Proprietary	24 gauge steel with a 25 mil thick GAF TPO for edge detailing and designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Cover Tape	6" x 100′ 10" x 100′	Proprietary	GAF TPO laminated to white butyl tape primarily used for edge metal details.
EverGuard® TPO Cover Tape Heat-Weld	6" x 100′	Proprietary	Flashing strip manufactured from unreinforced GAF TPO laminated to a six inch wide strip, half the strip with a self-adhered side and half the strip with a heat-weldable edge; used for edge metal details.
EverGuard Extreme® TPO Cover Tape Heat-Weld	6" x 100′	Proprietary	Flashing strip manufactured from unreinforced GAF TPO designed for advanced protection against heat aging and UV degradation. Laminated to a six inch wide strip, half the strip with a self-adhered side and half the strip with a heat-weldable edge; used for edge metal details.
EverGuard® TPO Detailing Membrane	24" x 50'	Proprietary	Unreinforced flashing material manufactured from GAF TPO.
EverGuard Extreme® TPO Detailing Membrane	24" x 50'	Proprietary	Unreinforced flashing material manufactured from GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Flashing Strip	Various	Proprietary	Reinforced flashing membrane manufactured from GAF TPO.

Product	Dimensions	Test Specification	Product Description
EverGuard Extreme® TPO Flashing Strip	Various	Proprietary	Reinforced flashing membrane manufactured from GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Pourable Sealer Pocket	9" x 6" x 4" oval with 3" base flange	Proprietary	Pourable sealer pocket is molded with GAF TPO compound to a nominal 70 mil thickness designed for waterproofing irregular shaped roof penetrations.
EverGuard Extreme® TPO Pourable Sealer Pocket	9" x 6" x 4" oval with 3" base flange	Proprietary	Pourable sealer pocket is molded from GAF TPO designed for advanced protection against heat aging and UV degradation compounded to a nominal 70 mil thickness designed for waterproofing irregular shaped roof penetrations.
EverGuard® RTA TPO (Roof Transition Anchor) Strip™	6" x 100' roll	Proprietary	Reinforced GAF TPO membrane with pressure sensitive adhesive primarily used to secure membrane transitions from the field to vertical surfaces.
EverGuard® TPO Split Pipe Boot	1"- 2" 3" - 5" 6" - 8" 9"- 11"	Proprietary	Reinforced GAF TPO membrane split to accommodate most common pipes and conduits.
EverGuard Extreme® TPO Split Pipe Boot	1"- 2" 3" - 5" 6" - 8"	Proprietary	Reinforced GAF TPO designed for advanced protection against heat aging and UV degradation split to accommodate most common pipes and conduits.
EverGuard® TPO Square Tube Wrap	4" x 4" 4" x 6" 6" x 6"	Proprietary	Reinforced GAF TPO with split design overlap to be wrapped around square or rectangular tubing.
EverGuard Extreme® TPO Square Tube Wrap	4" x 4" 4" x 6" 6" x 6"	Proprietary	Reinforced GAF TPO designed for advanced protection against heat aging and UV degradation with split design overlap to be wrapped around square or rectangular tubing.
EverGuard® TPO Corner Curb Wrap	Various	Proprietary	Corners fabricated from reinforced GAF TPO.
EverGuard® Extreme® TPO Corner Curb Wrap	Various	Proprietary	Corners fabricated from reinforced GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Scupper	4" x 6" x 12" 8" x 10" x 12"	Proprietary	Scupper manufactured from coated metal and unreinforced GAF TPO.
EverGuard® TPO T-Joint Cover Patch	100 patches per box	Proprietary	T-Joint patch manufactured from unreinforced GAF TPO.

Product	Dimensions	Test Specification	Product Description
EverGuard Extreme® TPO T-Joint Cover Patch	100 patches per box	Proprietary	T- Joint patch manufactured from unreinforced GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Vent	2 vents per carton	Proprietary	Vent manufactured from reinforced GAF TPO membrane and galvanized steel.
EverGuard® TPO T-Top Vent	4" or 6"	Proprietary	Vent manufactured from reinforced GAF TPO membrane and galvanized steel.
EverGuard® TPO Walkway Rolls	Rolls 1/8"x30"x50'	Proprietary	Standard duty TPO walkway rolls.
EverGuard® TPO Inside Corner	6" x 6" x 5¼"	Proprietary	Inside corner manufactured from unreinforced GAF TPO.
EverGuard Extreme® TPO Inside Corner	6" x 6" x 5¼"	Proprietary	Inside corner manufactured from unreinforced GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Universal Corners	Various	Proprietary	Universal corners manufactured from GAF TPO that are heat seamable and designed to accommodate both inside and outside corners of base and curb flashings.
EverGuard Extreme® TPO Universal Corners	Various	Proprietary	Universal corners manufactured from GAF TPO designed for advanced protection against heat aging and UV degradation are heat seamable and designed to accommodate both inside and outside corners of base and curb flashings.
EverGuard® TPO Vent Boot	1" - 6" o.d. 6 pcs. Crtn.	Proprietary	Vent pipe boot molded from GAF TPO and supplied with stainless steel clamping rings.
EverGuard Extreme® TPO Vent Boot	1" - 6" o.d. 6 pcs. Crtn.	Proprietary	Vent pipe boot molded from GAF TPO designed for advanced protection against heat aging and UV degradation and supplied with stainless steel clamping rings.
EverGuard® TPO Expansion Joint Cover	Various	Proprietary	Low profile joint cover manufactured from reinforced GAF TPO.
EverGuard® TPO Fluted Corner	8" diameter nominal .05" non-reinforced	Proprietary	Flashing for outside corners of base and curb flashing manufactured from non-reinforced GAF TPO.

Product	Dimensions	Test Specification	Product Description
EverGuard Extreme® TPO Fluted Corner	8" diameter nominal .05" non-reinforced	Proprietary	Flashing for outside corners of base and curb flashing manufactured from non-reinforced GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Cut Edge Sealant	1 quart squeeze tube	Proprietary	Clear solvent based sealant for TPO cut edges.
EverGuard® Low VOC Cut Edge Sealant	1 quart squeeze tube	Proprietary	Low VOC clear solvent based sealant for TPO cut edges.
EverGuard® TPO Drain	Various	Proprietary	Spun aluminum drain pre-flashed with unreinforced GAF TPO.
EverGuard® TPO Seam Cleaner	1 gallon	Proprietary	Solvent based seam cleaner.
EverGuard® TPO Primer	1 gallon	Proprietary	Solvent-based VOC compliant TPO primer.
EverGuard® Low VOC TPO Primer	1 gallon	Proprietary	Low VOC TPO primer
Topcoat® TPO Red Primer	1 gallon	Proprietary	Solvent-based primer for TPO membranes.
TPO Red Primer	1 gallon	Proprietary	Solvent-based primer for TPO membranes.
Topcoat® FlexSeal™	1 or 5 gallons or 1 qt. tube	TAS 139	Solvent-based elastomeric sealant.
EverGuard® Polymat Cushioning Layer	6 oz./yd.^{2} polyester mat	Proprietary	A non-woven polyester mat for use as a slip sheet below mechanically secured single ply roof membranes.
EverGuard® Polymat Separation Layer	3 oz./yd.^{2} polyester mat	Proprietary	A non-woven polyester mat for use as a slip sheet below mechanically secured single ply roof membranes.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ NH Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ HD Polyiso Insulation	High density polyisocyanurate foam insulation	GAF
EnergyGuard™ NH HD Polyiso Insulation	High density polyisocyanurate foam insulation	GAF
EnergyGuard™ HD Plus Polyiso Insulation	High density polyisocyanurate foam insulation	GAF
EnergyGuard™ NH HD Plus Polyiso Insulation	High density polyisocyanurate foam insulation	GAF
EnergyGuard™ Ultra Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ Ultra Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ NH Ultra Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RH Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RH HD Polyiso Insulation	High density polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
Securock® Gypsum-Fiber Roof Board	Gypsum roof board	United States Gypsum Corporation
Securock® Glass-Mat Roof Board	Gypsum board	United States Gypsum Corp.
DensDeck® Roof Board	Gypsum board	Georgia-Pacific Gypsum LLC
DensDeck® Prime Roof Board	Gypsum board	Georgia-Pacific Gypsum LLC
Structodek® High Density Fiberboard Roof Insulation	High-density fiberboard	Blue Ridge FiberBoard, Inc.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec™ #14 Fastener	Carbon steel fastener used in steel, wood or concrete decks.	various	GAF
2.	Drill-Tec™ 2 3/8 in. Barbed XHD Plate	Round galvanized steel stress plates for use with Drill-Tec™ fasteners.	2-3/8 in. dia.	GAF
3.	Drill-Tec™ 2 in. Barbed Plate	Round galvanized steel stress plates for use with Drill-Tec™ fasteners.	2 in. dia.	GAF
4.	Drill-Tec™ 2 3/4 in. Barbed SXHD Plate	Round galvanized steel stress plates for use with Drill-Tec™ fasteners.	2-3/4 in. dia.	GAF
5.	Drill-Tec™ 3" Steel Plate	Round galvalume steel stress plate for use with Drill-Tec™ fasteners.	3"	GAF
6.	Drill-Tec™ Eyehook AccuSeam Plate	Round Galvalume® steel stress plate for use with Drill-Tec™ fasteners.	2-3/8" Round	GAF
7.	Drill-Tec™ RhinoBond® TPO XHD Plates	Gold primer coated plate for use with TPO membranes.	3" Round	GAF
8.	Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plate	Round, coated Galvalume® plate (Gold primer coating) used for TPO membranes.	3" Round	GAF

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
UL LLC	R10689	UL 790	04/30/21
	R1306	UL 790	06/28/23
	09CA55838	Physical Properties	12/04/10
Exterior Research and Design, LLC.	01881.09.03-2	TAS 114	09/09/03
Trinity | ERD	G43180.03.14	ASTM D6164	03/03/14
	GAF-SC9700.08.15-R1	ASTM D2178	09/09/15
	GAF-SC13285.03.17-5	ASTM D6164	03/23/17
Atlantic &Caribbean Roof Consulting, LLC	11-002	TAS -114	03/21/11
	11-003	TAS -114	03/21/11
	11-012	TAS -114	04/06/11
	11-041	TAS -114	09/05/11
	11-047	TAS -114	09/09/11
	12-008	TAS -114	04/10/12
	12-024	TAS -114	05/09/12
	12-025	TAS -114	05/09/12
FM Approvals	3003617	FM 4470	12/20/99
	3011140	FM 4470	08/14/01
	3012721	FM 4470	02/11/04
	3013788	FM 4470	01/10/03
	3013861	FM 4470	03/28/03
	3014692	FM 4470	08/05/03
	3015029	FM 4470	02/19/04
	3015578	FM 4470	05/12/04
	3016688	FM 4470	01/07/04
	3023458	FM 4470	07/18/06
	3024051	FM 4470	03/28/06
	3031350	FM 4470	09/27/07
	3032856	FM 4470	11/24/08
	3036141	FM 4470	08/10/09
	3038318	FM 4470	12/10/10
	3041535	FM 4470	06/08/11
	3041685	FM 4470	03/24/11
	3041769	FM 4470	05/26/11
	3044862	FM 4470	05/11/12
	3046328	FM 4470	09/13/12
	3047636	FM 4470	08/08/13
	3053501	FM 4470	01/14/16
	3056822	FM 4470	11/14/16
	3058483	FM 4470	12/09/16
	3060615	FM 4470	01/23/17
	797-09497-267	FM 4470	05/16/14
	RR200835	FM 4470	04/17/15
	RR201963	FM 4470	07/22/15
	RR205231	FM 4470	05/09/16
	RR205474	FM 4470	05/25/16
	RR206620	FM 4470	09/12/16
	FM Letter	FM 4470	09/21/16
	FM Letter	FM 4470	12/06/11
	FM Letter	FM 4470	12/14/17

EVIDENCE SUBMITTED: (CONTINUED)

Test Agency/Identifier	Name	Report	Date
PRI Construction Materials Technologies LLC	GAF-464-02-01	ASTM C1289	02/05/14
	GAF-499-02-01	ASTM D6083	05/18/16
	GAF-500-02-01	ASTM D6083	05/18/16
	GAF-508-02-01	ASTM D1475	03/11/14
	GAF-540-02-02	TAS 114	08/06/14
	GAF-540-02-03	TAS 114	08/06/14
	GAF-540-02-04	TAS 114	08/06/14
	GAF-584-02-01	ASTM D6878/TAS 131	12/07/15
	GAF-585-02-01	ASTM D6878/TAS 131	12/07/15
	GAF-586-02-01	ASTM D6878/TAS 131	12/07/15
	GAF-671-02-01	TAS 139	06/30/16
	GAF-704-02-01	ASTM C1289	09/22/16
	GAF-706-02-01	ASTM C1289	09/22/16
	GAF-707-02-01	ASTM C1289	09/22/16
	GAF-714-02-01	ASTM C1289	11/09/16
	GAF-760-02-01	ASTM C1289	05/15/17
	GAF-769-02-01	ASTM C1289	03/21/18
	GAF-772-02-01	ASTM C1289	08/01/17
	GAF-774-02-01	ASTM C1289	09/27/17
	GAF-786-02-01	ASTM C1289	10/30/17

Membrane Type: TPO

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete

System Type A(11): Membrane adhered to adhered insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: (Optional) Concrete deck shall be primed with Matrix™ 307 Premium Asphalt Primer and allowed to dry prior to adhering one or two plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, Tri-Ply® Ultra-Flexible Ply 6® or GAFGLAS® FlexPly™ 6 in hot asphalt applied at 20-25 lbs./sq.

One or more layers each of the following insulations.

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
EnergyGuard™ Polyiso Insulation, EnergyGuard™ Tapered Polyiso Insulation, EnergyGuard™ NH Polyiso Insulation Minimum 0.5" thick	**N/A**	**N/A**

Note: **Insulation shall be adhered to the deck with OlyBond 500® or OlyBond 500® Green in 0.75" - 1" ribbons spaced 12"o.c.**
OR
Adhered with GAF 2-Part Roofing Adhesive applied in 2.5" – 3.0" thick ribbons spaced 12 in. o.c.
Please refer to Roofing Application Standard RAS 117 for insulation attachment. The base layer or top layer of insulation of multi-layer constructions may be either tapered or flat profiled. Intermediate layers of insulation (when present) are flat profiled.

Membrane: EverGuard® TPO or EverGuard Extreme® TPO adhered with EverGuard® WB181 Bonding Adhesive is roller applied at a total rate of 0.84 gal./sq. One quarter of the adhesive is applied to the back of the roof cover and three quarters of the adhesive is applied to the substrate.
OR
EverGuard® TPO or EverGuard Extreme® TPO adhered with EverGuard® TPO #1121 Bonding Adhesive or EverGuard® TPO 3 Square Low VOC Bonding Adhesive rolled applied to both the substrate surface and the underside of the membrane at a rate of 1.67 gal./sq. total. The top surface is then broomed and rolled with a weighted roller.
OR
EverGuard® TPO FB Ultra or EverGuard Extreme® TPO FB Ultra is fully adhered to with EverGuard® WB181 Bonding Adhesive applied to the substrate at the rate of 0.84 gallons per square. Then the fleece back membrane is rolled into the wet adhesive.
Laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" in width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Surfacing: (Optional) **Chosen components must be applied according to manufacturer's application instructions. Any coating listed below used as a surfacing, must be listed within a current NOA.**

1. Topcoat® Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

Maximum Design Pressure: -292.5 psf. (See General Limitation #9)
-180 psf. (See General Limitation #9) when using GAF 2-Part Roofing Adhesive

CONCRETE DECK 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 and/or RAS 137, calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.

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 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 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE