MIAMI-DADE

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 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 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® Freedom™ TPO SA and EverGuard® Freedom™ with RapidSeam® TPO Single Ply Roofing System over Poured Gypsum Deck

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. 05-0830.17 and consists of pages 1 through 6.
The submitted documentation was reviewed by Jorge L. Acebo.

MIAMI-DADE COUNTY APPROVED

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: TPO, Self-Adhered Single Ply Roofing
Deck Type: Poured Gypsum
Maximum Design Pressure -490 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

Product	Dimensions	Test Specification	Product Description
EverGuard® Freedom™ TPO SA Membrane	Various	ASTM D 6878	Self-Adhered thermoplastic olefin reinforced membrane.
EverGuard® Freedom™ with RapidSeam® TPO Membrane	Various	ASTM D 6878	Self-Adhered thermoplastic olefin reinforced membrane.
EverGuard® Freedom™ HW TPO Membrane	Various	ASTM D 6878	Self-Adhered thermoplastic olefin reinforced membrane.
EverGuard® TPO-45 Utility Flashing Strips	Various	ASTM D 6878	Thermoplastic olefin reinforced flashing membrane.
EverGuard® TPO UN-60 Detailing Membrane	Various	ASTM D 6878	Thermoplastic olefin reinforced flashing membrane.
EverGuard® TPO Coated Metal	4' x 8' 4' x 10' sheets	US CS-245-62	EverGuard membrane laminated 24 Ga. galvanized steel.
EverGuard® TPO Preformed Corners	4" x 4" x 4" 20 pcs. Crtn.	ASTM D 6878	Prefabricated molded one piece corners.
EverGuard® TPO Preformed Vent Boots	1" - 8" o.d. 6 pcs. Crtn.	ASTM D 6878	Premolded vent pipe boots.
EverGuard® TPO Cut Edge Sealant	1 quart squeeze tube	Proprietary	Solvent based sealant for TPO cut edges.
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® HD Walkway	1/4" x 30" x 36"		Heavy duty walkway pad.
SeamCote™	2, 5 gallons	Proprietary	Elastomeric protective coating
EnergyCote™ Coating	2, 5 gallons	ASTM D-2196 ASTM D-1475 ASTM E-1644 ASTM C-1549 ASTM E-408	Highly reflective elastomeric coating
TOPCOAT® FireShield® SB	5, 55 gallons	ASTM D-412 ASTM D-21 ASTM D1475 ASTM E-1644	Elastomeric roofing membrane

Product	Dimensions	Test Specification	Product Description
WeatherCote™	5 gallons		Surface coating for smooth surfaced and mineral surfaced roofs.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ PolyIso, RA, RN, Ultra	Polyisocyanurate foam insulation	BMCA
EnergyGuard™ High Density Fiberboard	High density wood fiberboard insulation.	BMCA
EnergyGuard™ Perlite	Perlite insulation board.	BMCA.
EnergyGuard™ Composite RA, RN	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.	BMCA
Wood Fiberboard	Regular wood fiber insulation	Generic
Structodek® TD	Flame Resistant High Density Wood Fiber board.	Knight-Celotex

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec® CR 1.2 Base Sheet Fastener and Plate	Base sheet fastening assembly.		BMCA
2.	Drill-Tec® Locking Impact Nail	Base sheet fastener with integrated Plate.	1.8" long w/ 2.7" dia. plate	BMCA

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
Underwriters Laboratory, Inc.	03CA38009	UL 790	01/21/04
IRT-ARCON, Inc.	02-011	TAS 114	02/26/02
	02-015	TAS 114	03/26/02
	04-005	TAS 114	03/19/04
	04-022	TAS 114	05/14/04
Factory Mutual Research Corp.	FMRC 4470	3020588	03/24/04
	FMRC 4450	3015029	02/19/04
Atlantic & Caribbean Roof Consulting, LLC	08-033	TAS 114	05/19/08

APPROVED ASSEMBLIES:

Membrane Type: **TPO**

Deck Type 6: Poured Gypsum, Insulated

Deck Description: Poured Gypsum

System Type A: Anchor sheet mechanically fastened; all layers of insulation adhered.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ PolyIso, RA, RN Minimum 1.3" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the anchor sheet in ¾" to 1" wide beads 6" o.c. of OlyBond™ 500 Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

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

Fastening Options: Drill-Tec™ CR 1.2" Base Sheet fasteners at a 2" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.;
(Maximum Design Pressure –50 psf, See General Limitation #9)

Drill-Tec™ CR 1.2" Base Sheet fasteners at a 4" side lap 7" o.c. and in three rows staggered in the center of the sheet 7" o.c.;
(Maximum Design Pressure –52.5 psf, See General Limitation #7)

Drill-Tec™ 1.8" Locking Impact Nail fasteners at a 4" side lap 9" o.c. and in two rows staggered in the center of the sheet 12" o.c.;
(Maximum Design Pressure –75 psf, See General Limitation #7)

Membrane: EverGuard® Freedom™ TPO SA 45, 60, 80 mil or EverGuard® Freedom™ with RapidSeam® TPO45, 60, 80 mil adhered to insulation with a minimum 6" side lap fully self-adhered or Freedom™ HW (self-adhered) with a minimum 3" side lap heat welded with a minimum 1.75" weld.

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

Membrane Type: **TPO**

Deck Type 6: Poured Gypsum

Deck Description: Poured Gypsum Concrete

System Type F: Membrane fully adhered directly to primed roof deck

All General and System Limitations shall apply.

Primer: Gypsum deck shall be primed with GAF TOPCOAT Surface Seal SB applied at a rate of .83 gallons per square.

Membrane: EverGuard® Freedom™ TPO SA 45, 60, 80 mil self adhered to the Gypsum concrete deck with a minimum 6" side lap fully self-adhered.

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: -490 psf (See General Limitation # 9)

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.)**
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