



**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, including the High Velocity Hurricane Zone.

**DESCRIPTION: GAF EverGuard TPO Single Ply Roofing System for LWC 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 7.  
The submitted documentation was reviewed by Frank Zuloaga, RRC.



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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** -67.5 psf  
**Fire Classification:** See General Limitation #1

### 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	ASTMD 4434	ThermoPlastic Olefin reinforce membrane.
EverGuard TPO FB-450, FB-500 & FB-600 Membrane	Various	ASTMD 4434	ThermoPlastic Olefin reinforce, fleece backed membrane.
EverGuard TPO EX -White Membrane (Grey)	Various	ASTMD 4434	ThermoPlastic Olefin reinforce membrane.
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.

### APPROVED INSULATIONS:

TABLE 2

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

### APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Drill-Tec® CR Base Sheet Fastener and Plate	Base sheet fastening assembly.	Leg length 1.75"	GAF Materials Corp.
2.	EverGuard XHD Fasteners	Self tapping coated screw w/#3 Phillips head.		GAF Materials Corp.
3.	EverGuard EGX plate	AZ55 Galvalume coated barber steel plate used with fastener.	2-3/8" dia	GAF Materials Corp.



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**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
4.	EverGuard EGHD plate	AZ55 Galvalume coated barber steel plate used with fastener.	2" dia	GAF Materials Corp.

**EVIDENCE SUBMITTED:**

<b><u>Test Agency/Identifier</u></b>	<b><u>Name</u></b>	<b><u>Report</u></b>	<b><u>Date</u></b>
Factory Mutual Research Corporation	3003617	FM 4470	12/20/99
Underwriters Laboratories	File R1306	Fire Classification	05/20/99
IRT-ARCON, Inc.	TAS 114	01-035	12/18/01
IRT-ARCON, Inc.	TAS 114	02-007	01/24/02



## APPROVED ASSEMBLIES:

- Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced and FleeceBacked
- Deck Type 4:** Lightweight Concrete, Non-Insulated, over Steel Deck
- Deck Description:** Celcore Cellular Lightweight Concrete
- System Type E(1):** Base Sheet mechanically attached, subsequently membrane adhered.

### All General and System Limitations apply.

- Steel Deck:** Minimum 22 gage Type B steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with 5/8" puddle welds and washers at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex Traxx/1 at a maximum spacing of 24 inches o.c.
- Lightweight Concrete:** Minimum 300 psi cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an optional 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:** 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-450, FB-500 or FB-600 Ultra Membrane adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Maximum Design Pressure:** -60 psf (See General Limitation #7.)



**Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced and FleeceBacked

**Deck Type 4:** Lightweight Concrete, Non-Insulated, over Steel Deck

**Deck Description:** Cellular Lightweight Concrete (Min 300 psi)

**System Type E(2):** Membrane mechanically attached to deck.

**All General and System Limitations apply.**

**Steel Deck :** Minimum 22 ga. Grade E steel deck secured to supports space at maximum 6 ft o.c. with ITW Buildex Traxx/5 spaced at 6" o.c. Side laps shall be fastened with ITW Buildex Traxx/1 at a maximum spacing of 30 inches o.c.

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

**Barrier:** None.

**Membrane:** EverGuard TPO Membrane attached through the lightweight concrete to the underlying steel deck as specified below.

**Fastening #1** Membrane is mechanically attached using EverGuard XHD Fasteners and EverGuard EGX 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 #1:** Membrane is mechanically attached using EverGuard XHD Fasteners and EverGuard EGHD 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)*

**Maximum Design Pressure:** See Fastening Options Above



## **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 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 sidelap 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. **(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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