



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99
www.miamidade.gov/economy

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® PVC Membrane Single Ply Roofing System over Steel 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. 12-1218.04 and consists of pages 1 through 8.
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 17-0511.03
Expiration Date: 08/07/23
Approval Date: 06/28/18
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ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply Roofing
Material: PVC
Deck Type: Steel
Maximum Design Pressure: -82.5 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® PVC	Various	ASTM D4434	Thermoplastic, reinforced PVC single-ply membrane.
EverGuard® PVC KEE	Various	ASTM D4434	Thermoplastic, reinforced PVC KEE based single-ply membrane.
EverGuard® #2331 Bonding Adhesive	5 gallons	Proprietary	Adhesive for fully adhered systems and membrane flashing.
EverGuard® PVC Round Stack	Various	proprietary	PVC membrane molded to wrap around round roof structures.
EverGuard® PVC Outside Corner	6x6	proprietary	Outside corner of base and curb flashing.
EverGuard® PVC Corner Curb Flashing	Various	proprietary	Corners are fabricated from reinforced PVC membrane.
EverGuard® PVC Square Tube Wrap	Various	proprietary	PVC membrane molded to wrap around square roof structures.
EverGuard® PVC Inside Corner	6 x 6 x 5-1/4	proprietary	Inside corner of base and curb flashing.
EverGuard® PVC Coated Metal	Various	proprietary	Un-reinforced membrane is laminated to galvanized sheet metal.
TOPCOAT® Membrane	1, 5 or 55gal.	ASTM D6083	An acrylic, water based elastomeric membrane system used to protect various types of roofing surfaces



APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
EnergyGuard® Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard® RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard® RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard® RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF
DensDeck® Roof Board	Gypsum board.	Georgia Pacific Gypsum LLC
DensDeck® Prime Roof Board	Gypsum board.	Georgia Pacific Gypsum LLC
Structodek® High Density Fiber Board Roof Insulation	High Density Fiber Board	Blue Ridge Fiber Board, Inc.
SECUROCK® Gypsum-Fiber Roof Board	Gypsum board.	United States Gypsum Corporation

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™ XHD Fastener	Insulation fastener and Base Ply fastener for steel.	various	GAF
2.	Drill-Tec™ 2-3/8” Barbed XHD Plate	AZ55 Galvalume coated barbed steel plate used with fastener.	2-3/8” dia.	GAF
3.	Drill-Tec™ RhinoBond PVC XHD Plate	Black primer coated plate for use with PVC membranes.	3” Round	GAF
4.	Drill-Tec™ RhinoBond PVC XHD Tread Safe Plate	Round, coated Galvalume® plate (Black primer coating) used for PVC membranes.	3” Round	GAF



EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Report</u>	<u>Test Name</u>	<u>Date</u>
FM Approvals	3056728 LTR	4470	06/18/18
	3025609	4470	11/24/08
	3034749	4470	11/24/08
Trinity ERD	F35940.10.11-2-R3	ASTM D4434	10/04/12
NEMO etc.	GAF-SC10365.10.16-2-R1	ASTM D4434	12/31/17
	GAF-SC10365.01.17	ASTM D4434	01/16/17
	GAF-SC10365.03.17	ASTM D4434	03/17/17
PRI Construction Materials Technologies, LLC	GAF-245-02-01	ASTM D6083	06/10/10
	GAF-369-02-01	ASTM C1289	10/22/12
	GAF-464-02-01	ASTM C1289	02/06/14
	GAF-499-02-01	ASTM D6083	03/12/14

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies:</u>	<u>Date</u>
FM Approval Deck Limitations	N/A	D(1), D(2)	01/01/13



APPROVED ASSEMBLIES

Membrane Type: Single Ply, PVC

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga., Grade 80 steel decking secured to minimum 0.25" thick structural steel supports spaced a maximum of 72 in. o.c. with ITW Buildex Traxx/5 fasteners as maximum of 6" o.c. at each structural steel support. The deck side laps are secured with ITW Buildex Traxx/1 fasteners a maximum of 24" o.c.
This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table

System Type D(1): Membrane mechanically attached to steel deck through preliminarily fastened 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.

Thermal Barrier: (Optional) Minimum 1/2" DensDeck® Roof Board, DensDeck® Prime® Roof Board, Securock® Gypsum-Fiber Roof Board, loose laid on steel deck.

One or more layers of the following.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard® Polyiso Insulation, EnergyGuard® RA Polyiso Insulation, EnergyGuard® RH Polyiso Insulation, EnergyGuard® RN Polyiso Insulation Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
Structodek® High Density Fiberboard Roof Insulation Minimum 0.5" thick	N/A	N/A
DensDeck® Roof Board, DensDeck® Prime Roof Board, or Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick	N/A	N/A

Note: Insulation is preliminary attached, prior to the installation of the membrane sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. See Roofing Application Standard RAS 117 for fastening details. All layers of insulation and membrane shall be simultaneously fastened. See membrane sheet below for fasteners and density.

Membrane: EverGuard® PVC or EverGuard® PVC KEE mechanically fastened through the insulation as specified below:

Secure to deck using Drill-Tec™ XHD Fasteners and Drill-Tec™ 2-3/8" Barbed XHD Plates. Spaced maximum 6 in. (305 mm) o.c. in the roof cover side laps and in rows spaced maximum 114 in. (1.19 m) apart. Min. 6.0" side laps are sealed with a minimum 1.5 in. (38mm) wide heat weld located on the outside edge of the lap. Weld width shall be a minimum 2" width for hand welding.

Surfacing: (Optional) TOPCOAT® Membrane applied per manufacturer's instructions.

Maximum Design

Pressure: -45 psf (See General Limitation #7)



Membrane Type: Single Ply, PVC

Deck Type 2: Steel, Insulated

Deck Description: Min. 22 gauge, Grade 33, Type B steel deck secured to min. 0.25 in. thick structural supports spaced maximum 72 in. o.c. with ICH Traxx/5 fasteners spaced maximum 6 in. o.c. at each bottom rib. The deck side laps are secured with ICH Traxx/1 fasteners spaced maximum 24 in. o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(2): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to stress plates used to fasten insulation layer.

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.

Thermal Barrier: (Optional) Minimum 1/2" DensDeck® Roof Board, DensDeck® Prime® Roof Board, Securock® Gypsum-Fiber Roof Board, loose laid on steel deck.

One or more layers of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation, or EnergyGuard™ RN Polyiso Insulation Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
Structodek® High Density Fiberboard Roof Insulation Minimum 0.5" thick	N/A	N/A
DensDeck® Roof Board, DensDeck® Prime Roof Board, or Securock® Gypsum-Fiber Roof Board Minimum 0.25" thick	N/A	N/A

Note: Insulation layer is preliminarily attached through the optional thermal barrier (when present) into the steel deck Preliminary attachment is accomplished by the RhinoBond membrane fasteners applied as described below for membrane attachment. A 5/8 in. diameter pilot hole must be drilled when using Drill-Tec™ RhinoBond® PVC XHD Tread Safe Plates with gypsum or wood fiber cover boards. The total insulation thickness must be greater than or equal to 2" when using Drill-Tec RhinoBond PVC XHD Tread Safe Plates. Please refer to Roofing application Standard RAS 117 for insulation attachment requirements.

Membrane: EverGuard® PVC or EverGuard® PVC KEE mechanically attached to deck with Drill-Tec™ RhinoBond® PVC XHD Plates or Drill-Tec™ RhinoBond® PVC XHD Tread Safe Plates with Drill-Tec™ XHD Fasteners as specified in fastening options.



Fastening #1: Fasteners are applied on a 24 x 24 in. grid. The underside of the roof cover is bonded to the stress plates with the OMG RhinoBond® tool. Weighted cooling magnets are placed over the plates after the bonding process for a minimum of 45 seconds. Min. 3” wide lap and sealed with a minimum 1-1/2” heat weld for automatic machine welding. Weld width shall be a minimum 2” width for hand welding.
(Maximum Design Pressure: –60 psf. See General Limitation #7)

Fastening #2: Fasteners are applied on a 16 x 24 in. grid. The underside of the roof cover is bonded to the stress plates with the OMG RhinoBond® tool. Weighted cooling magnets are placed over the plates after the bonding process for a minimum of 45 seconds. Min. 3” wide lap and sealed with a minimum 1-1/2” heat weld for automatic machine welding. Weld width shall be a minimum 2” width for hand welding.
(Maximum Design Pressure: –82.5 psf. See General Limitation #7)

Surfacing: (Optional) TOPCOAT® Membrane applied per manufacturer’s instructions.

Maximum Design Pressure: See fastening options above.



STEEL 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 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.

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 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 17-0511.03
Expiration Date: 08/07/23
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