

**EverGuard<sup>®</sup> TPO  
Single Ply Roofing Systems  
over Steel Decks**

**Miami-Dade County  
Notice of Acceptance (NOA)**

**Updated: 3/09**



*Quality You Can Trust...From  
North America's Largest Roofing Manufacturer!™*

[www.gaf.com](http://www.gaf.com)



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 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 revises NOA No. 08-0221.10 and consists of pages 1 through 12.  
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 09-0115.04  
Expiration Date: 07/13/13  
Approval Date: 03/04/09  
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## ROOFING SYSTEM APPROVAL

**Category:** Roofing  
**Sub-Category:** TPO, Single Ply Roofing  
**Deck Type:** Steel  
**Maximum Design Pressure** -120 psf

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO (45 mil, 60 mil or 80 mil) Membrane	Various	ASTM D 6878	Thermoplastic Olefin reinforced membrane.
EverGuard® TPO (FB-450, FB-600 & FB-800) Ultra Membrane	Various	ASTM D 6878	Thermoplastic Olefin reinforced, fleece backed membrane.
EverGuard® TPO-45 Utility Flashing Membrane	Various	ASTM D 6878	Reinforced flashing membrane.
EverGuard® UN-55 Detailing Membrane	Various	ASTM D 6878	55 mil un-reinforced flashing membrane.
EverGuard® Coated Metal Sheets	4' x 10' sheets	US CS-245-62	TPO membrane laminated to 25 Ga. galvanized sheet metal.
EverGuard® Preformed Corners	4" x 4" with 6" Flange 20 pcs. Crtn.	ASTM D 4434	Prefabricated molded one piece corners.
EverGuard® Preformed Vent Boots	1" - 6" o.d. 6 pcs. Crtn.	ASTM D 4434	Pre-molded vent pipe boots.
EverGuard® TPO Bonding Adhesive	5 gallon	Proprietary	Adhesive for fully adhered systems and membrane flashing.
EverGuard® H <sub>2</sub> O Bonding Adhesive	5 gallons	Proprietary	Water based adhesive for fully adhered systems and membrane flashing.
EverGuard® Cut Edge Sealant	1 quart squeeze tube	Proprietary	Solvent based sealant for TPO cut edges.
EverGuard® Lip Termination Bar	10' bar length, 3/4" width	TAS 114	Lip termination bar.
EverGuard® Prefabricated Expansion Joint Covers	4" & 6" bellows 50' continuous roll	Proprietary	Low profile expansion joint cover.
EverGuard® Walkway Pads & Rolls	Pads - 1/8" x 30" x 36", Rolls - 1/8"x30"x50'	Proprietary	Standard duty walkway pads & rolls.



**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
EnergyGuard™ 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 perlite insulation.	GAF Materials Corp.
EnergyGuard™ Perlite	Perlite insulation board.	GAF Materials Corp.
EnergyGuard™ Composite	Polyisocyanurate/wood fiberboard composite.	BMCA
Securock™	Fire Barrier	USG Corp.
DensDeck®	Water-resistant gypsum board	Georgia Pacific

**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>
1.	Drill-Tec™ #12 Standard & #14 HD Roofing Fasteners	Insulation fastener for steel, wood & concrete decks.	various	GAF Materials Corp.
2.	Drill-Tec™ Extra Heavy Duty #15 Roofing Fasteners (XHD)	Self tapping coated screw w/#3 Phillips head.	various	GAF Materials Corp.
3.	Drill-Tec™ Extra Heavy Duty ASAP (XHD)	AZ55 Galvalume coated double barbed steel plate used with fastener.	Plate Diameter: 2-3/8"	GAF Materials Corp.
4.	Drill-Tec™ Heavy Duty ASAP 2S (SHD)	AZ55 Galvalume coated double barbed steel plate used with fastener.	Plate Diameter: 2"	GAF Materials Corp.
5.	Drill-Tec™ Membrane Plates	Round 2" nylon reinforced seam plate.	Plate Diameter: 2"	GAF Materials Corp.
6.	Drill-Tec™ Plastic Insulation Plates	Round 3" plastic plate.	Plate Diameter: 3"	GAF Materials Corp.
7.	Drill-Tec™ Metal Insulation Plates	Round 3" galvalume plate.	Plate Diameter: 3"	GAF Materials Corp.
8.	Drill-Tec™ Super Extra Heavy Duty # 21 Roofing Fastener (SXHD)	Self tapping coated carbon steel screw w/#3 Phillips head.	various	GAF Materials Corp.



**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>
9.	Drill-Tec™ SXHD Plates	AZ55 Galvalume coated double barbed steel plate used with fastener.	Plate Diameter: 2-3/4"	GAF Materials Corp.
10	Drill-Tec™ AccuTrac Plate or Drill-Tec™ Steel Plates	Square or Round Galvalume® coated steel plates	Plate Diameter: 3" and 3 ½"	GAF Materials Corp.
11.	Drill-Tec™ Double – Barbed Plates	Round Galvalume® coated steel plates	Plate Diameter: 2" and 3"	GAF Materials Corp.
12.	Drill-Tec™ ASAP	Pre-assembled Drill-Tec™ Fasteners and metal and plastic plates.		GAF Materials Corp.
13.	OlyBond™ 500 & OlyBond Adhesive Fastener	Dual component adhesive fastener	N/A	Olympic Mfg. Group, Inc.

**EVIDENCE SUBMITTED:**

<b>Test Agency/Identifier</b>	<b>Name</b>	<b>Report</b>	<b>Date</b>
Underwriters Laboratories	UL 790	File R1306	05/20/99
Factory Mutual Research Corp.	FM 4470	3003617	12/20/99
	FM 4470	3013861	03/28/03
	FM 4470	3012721	02/11/04
	FM 4470	3015578	05/12/04
	FM 4470	3015029	02/19/04
Atlantic & Caribbean Roof Consulting, LLC	TAS 114-J	06-035	10/18/06
Florida Testing Engineering & Consulting, LLC	TAS 114-J	GL0809-01JR	09/02/08
	TAS 114-J	GL0809-04JR	09/02/08
Exterior Research & Design, LLC	TAS 114-J	02843.02.05-06	02/02/05



**APPROVED ASSEMBLIES:**

- Membrane Type:** Single Ply, Thermoplastic, TPO
- Deck Type 2:** Steel, insulated
- Deck Description:** 22 gauge, grade 80 steel attached 6" o.c. to steel supports spaced 6 ft o.c. using Traxx/5 screws. Deck side laps are attached 30" o.c. using Traxx/1 screws.
- System Type C(1):** Membrane adhered to mechanically fastened insulation.

**All General and System Limitations apply.**

One or more layers each of the following insulations.

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ RA Minimum 2" thick</b>	N/A	N/A

**Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>SECUROCK® Minimum ¼" thick</b>	1, 7, 10	1.33 ft <sup>2</sup>

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

**Membrane:** EverGuard® (45 mil, 60 mil or 80 mil) TPO fully adhered in TPO bonding adhesive 1121 at an application rate of 2.0 gal/sq.

**Surfacing: (Optional)**

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

**Maximum Design**

**Pressure:** -105 psf; (See General limitation #7)



**Membrane Type:** Single Ply, Thermoplastic, TPO  
**Deck Type 2:** Steel, insulated  
**Deck Description:** 22 gauge, grade 80 steel attached 6" o.c. to steel supports spaced 6 ft o.c. using Traxx/5 screws. Deck side laps are attached 30" o.c. using Traxx/1 screws.  
**System Type C(2):** Membrane adhered to mechanically fastened insulation.

**All General and System Limitations apply.**

One or more layers each of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ RA Minimum 2" thick	N/A	N/A

**Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
SECUROCK® Minimum 1/4" thick	1, 7, 10	1.6 ft <sup>2</sup>

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

**Membrane:** EverGuard® (45 mil, 60 mil or 80 mil) TPO fully adhered in TPO bonding adhesive 1121 at an application rate of 2.0 gal/sq.

**Surfacing: (Optional)**

1. Advanced Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specification 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:** -82.5 psf; (See General limitation #7)



**Membrane Type:** Single Ply, Thermoplastic, TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 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.

**System Type D(1):** Membrane mechanically attached over preliminary fastened insulation.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<b>Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ PolyIso, EnergyGuard™ RA Minimum 1” thick</b>	N/A	N/A

**Note:** Top layer shall have preliminary attachment, prior to the installation of the base/anchor 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. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

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

**Fire Barrier:** ½” or 5/8” gypsum or Dens Deck® secured to the deck with the insulation.  
(Optional)

**Membrane:** EverGuard® TPO (45 mil, 60 mil or 80 mil) Membrane attached through the preliminary attached insulation as specified below.

**Fastening #1:** Membrane is mechanically attached using Drill-Tec™ #15 XHD Fasteners and Drill-Tec™ 2-3/8” Double Barbed 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 1.5” wide heat weld.  
*(Maximum Design Pressure –45 psf; See General Limitation #7)*

**Fastening #2:** Membrane is mechanically attached using Drill-Tec™ #15 XHD Fasteners and Drill-Tec™ 2” Double Barbed SHD Plates spaced 6” o.c. within minimum 5” wide laps. Laps are spaced at maximum 114” 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 specification 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



**Membrane Type:** Single Ply, Thermoplastic, TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Minimum 22 ga. Grade 80 steel deck secured to minimum 1/4" 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.

**System Type D(2):** Membrane mechanically attached over preliminary fastened insulation.

**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 <sup>2</sup>
EnergyGuard™ PolyIso, EnergyGuard™ Ultra, EnergyGuard™ RA Minimum 1.5" thick	N/A	N/A

**Note:** Top layer shall have preliminary attachment, prior to the installation of the base/anchor 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. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

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

**Fire Barrier:** 1/2" or 5/8" gypsum or Dens Deck® secured to the deck with the insulation. (Optional)

**Membrane:** EverGuard® TPO (45 mil, 60 mil or 80 mil), EverGuard® TPO FB 450, FB 600 or FB 800 Ultra Membrane attached through the preliminary attached insulation as specified below.

**Fastening #1:** Membrane is mechanically attached using Drill-Tec™ # 21 SXHD Fasteners and Drill-Tec™ 2-3/4" Double 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:** Membrane is mechanically attached using Drill-Tec™ # 15 XHD Fasteners and Drill-Tec™ 2-3/8" Double Barbed 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:** Membrane is mechanically attached using Drill-Tec™ #15 XHD Fasteners and Drill-Tec™ 2-3/8" Double Barbed 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 1.6" wide heat weld.  
*(Maximum Design Pressure –52.5 psf; See General Limitation #7)*



**Fastening #4:** Membrane is mechanically attached using Drill-Tec™ # 15 XHD Fasteners and Drill-Tec™ 2-3/8" Double 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 #5:** Membrane is mechanically attached using Drill-Tec™ # 15 XHD Fasteners and Drill-Tec™ 2-3/4" Double 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)*

**Fastening #6:** Membrane is mechanically attached using Drill-Tec™ #15 XHD Fasteners and Drill-Tec™ 2" Double Barbed SHD Plates spaced 6" o.c. within minimum 5" wide laps. Laps are spaced at maximum 91.5" o.c. and sealed with a minimum 1.75" 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 specification 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



**Membrane Type:** Single Ply, Thermoplastic, TPO

**Deck Type 2I:** Steel, Insulated

**Deck Description:** Minimum 18 ga. 1.5" type B galvanized metal decking welded to the 7' o.c. steel supports with 5/8" puddle welds spaced 6" at the perimeter of testing frame and one at every flute. The side laps are fastened with self-drilling #12 screws spaced 12" o.c.

**System Type D(3):** Membrane mechanically attached over preliminary fastened insulation.

**All General and System Limitations apply.**

One or more layers of any of the following insulation.

<b>Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>EnergyGuard™ PolyIso Minimum 1.5" thick</b>	N/A	N/A

**Note:** Top layer shall have preliminary attachment, prior to the installation of the membrane, insulation is preliminary fastened to the steel deck with 5 Drill-Tec™ #14 Fasteners and 3" Drill-Tec™ Insulation Plates per 4' x 4' board of insulation. All layers of insulation and membrane shall be simultaneously fastened. See membrane below for fasteners and density.

**Membrane:** EverGuard® TPO (45 mil, 60 mil or 80 mil) – 120" wide. Membrane attached through the preliminary attached insulation as specified below.

**Fastening :** Membrane is mechanically attached using Drill-Tec™ # 15 XHD Fasteners and Drill-Tec™ 2" Double Barbed XHD Plates spaced 6" o.c. at the 6" overlap and sealed with a minimum 1.5" wide heat weld.

**Surfacing:** (Optional)

1. Advanced Green Technologies Photovoltaic Laminate solar energy collector auxiliary roof equipment installed in compliance with manufacturer's specification 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:** -90 psf (See General Limitation # 7)



**Membrane Type:** Single Ply, Thermoplastic, TPO

**Deck Type 2:** Steel, insulated

**Deck Description:** 22 gauge 33 ksi-C deck attached to steel supports spaced 6 ft o.c. with 5/8" puddle welds at 6" o.c. and #12 TEK screws at 6" o.c. on the side laps.

**System Type D(4):** Membrane mechanically fastened to deck through preliminary attached insulation layer.

**All General and System Limitations apply.**

One or more layers of any of the following insulation.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ PolyIso Minimum 1.5" thick	8, 10, 11	Preliminary attachment 4 fasteners per board

**Note:** Top layer shall have preliminary attachment, prior to the installation of the base/anchor 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. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

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

**Fire Barrier:** 1/2" or 5/8" gypsum or Dens Deck® secured to the deck with the insulation.  
(Optional)

**Membrane:** EverGuard® TPO (45 mil, 60 mil or 80 mil) attached through the preliminary attached insulation as specified below.

**Fastening #1:** Membrane 96" wide is mechanically attached using Drill-Tec™ # 15 Fasteners and Drill-Tec™ 2" double barbed plates spaced 12" o.c. on the 1.5" welded laps.  
*(Maximum Design Pressure -52.5 psf; See General limitation #7)*

**Fastening #2:** Membrane 96" wide is mechanically attached using Drill-Tec™ # 15 Fasteners and Drill-Tec™ 2" double barbed plates spaced 6" o.c. on the 1.5" welded laps.  
*(Maximum Design Pressure -120 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



## 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 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.

## 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**



NOA No.: 09-0115.04  
Expiration Date: 07/13/13  
Approval Date: 03/04/09  
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