

EverGuard[®] TPO Single Ply Roofing Systems for Recover Decks

Miami-Dade County Notice of Acceptance (NOA)

Updated: 5 / 1 1



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

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MIAMI-DADE COUNTY
 BUILDING AND NEIGHBORHOOD COMPLIANCE
 DEPARTMENT (BNC)
 BOARD AND CODE ADMINISTRATION DIVISION

**MIAMI-DADE COUNTY
 PRODUCT CONTROL SECTION**

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 Miami, Florida 33175-2474
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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 and accepted by Miami-Dade County BNC - 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. BNC 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 and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF EverGuard® TPO Single Ply Roofing System for Recover 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 consists of pages 1 through 18.
 The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply Roofing
Material:	TPO
Deck Type:	Recover
Maximum Design Pressure	See Specific Deck Type

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO	Various	TAS 131 ASTM D 6878	Thermoplastic olefin reinforced membrane.
EverGuard® TPO FB Ultra	Various	TAS 131 ASTM D 6878	Thermoplastic olefin reinforced, fleece backed membrane.
EverGuard® H2O Bonding Adhesive	5 gallons	Proprietary	Water based adhesive for fully adhered systems and membrane flashing.
EverGuard® WB 181 Bonding Adhesive	5 gallons	Proprietary	Water based adhesive for fully adhered systems and membrane flashing.
EverGuard® #1121 Bonding Adhesive	5 gallon	Proprietary	Adhesive for fully adhered systems and membrane flashing.
EverGuard® Low VOC TPO Bonding Adhesive	5 gallon	Proprietary	A contact type bonding adhesive for TPO single ply roofing membranes and flashings.
EverGuard® TPO Coated Metal	4' x 10' sheets	US CS-245-62	24 gauge steel with 25 mil thick TPO membrane film.
EverGuard® TPO Cover Tape	6" x 100'	Proprietary	30 mil TPO membrane laminated to white butyl tape.
EverGuard® TPO Detailing Membrane	24" x 50'	Proprietary	55 mil thick reinforced TPO membrane.
EverGuard® TPO Flashing Membrane	Various	TAS 131 ASTM D 6878	Reinforced flashing membrane.
EverGuard® TPO Pourable Sealer Pocket	9" x 6" x 4" oval with 3" base flange	Proprietary	Pourable sealer pocket is molded with TPO compound to a nominal 70 mil thickness.
EverGuard® RTA TPO (Roof Transition Anchor) Strip™	6" x 100' roll	Proprietary	Reinforced TPO membrane with pressure sensitive adhesive.
EverGuard® TPO Split Pipe Boot	Various	Proprietary	45 mil thick reinforced TPO membrane split to accommodate most common pipes and conduits.
EverGuard® TPO Square Tube Wrap	Various	Proprietary	Square tube wraps are fabricated from 45 mil thick reinforced TPO membrane.



Product	Dimensions	Test Specification	Product Description
EverGuard® TPO Corner Curb Wrap	Various	Proprietary	Corners are fabricated from 45 mil thick reinforced TPO membrane.
EverGuard® TPO Scupper	Various	Proprietary	TPO coated metal 55 mil unreinforced membrane.
EverGuard® TPO T-Joint Cover Patch	100 patches per box	Proprietary	55 mil thick unreinforced membrane.
EverGuard® TPO Vent	2 vents per carton	Proprietary	Vent manufactured out of reinforced 45 mil TPO membrane and galvanized steel.
EverGuard® TPO T-Top Vent	4" or 6"	Proprietary	Vent manufactured out of reinforced 45 mil TPO membrane and galvanized steel.
EverGuard® TPO Walkway Rolls	Rolls 1/8"x30"x50'	Proprietary	Standard duty walkway rolls with herringbone traction.
EverGuard® TPO Inside Corner	6" x 6" x 5 1/4"	Proprietary	Inside corners of base and curb flashings.
EverGuard® TPO Universal Corners	Various	Proprietary	Universal corners 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 boots.
EverGuard® TPO Expansion Joint Cover	Various	Proprietary	60 mil thick TPO reinforced membrane, heat weldable, joint cover.
EverGuard® TPO Fluted Corner	8" diameter nominal .05"	Proprietary	Non-reinforced flashing outside corners of base and curb flashing.
EverGuard® TPO Cut Edge Sealant	1 quart squeeze tube	Proprietary	Solvent based sealant for TPO cut edges.
EverGuard® TPO Drain	Various	Proprietary	Spun aluminum drain pre-flashed with 55 mil unreinforced TPO membrane.
EverGuard® TPO Seam Cleaner	1 gallon	Proprietary	Solvent-based seam cleaner

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF Materials Corp.
EnergyGuard™ RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF Materials Corp.
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF Materials Corp.



APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ RM Polyiso Insulation	Polyisocyanurate foam insulation	GAF Materials Corp.
EnergyGuard™ Perlite Recover Board	Perlite insulation board.	GAF Materials Corp.
EnergyGuard™ Perlite Roof Insulation	Perlite insulation board.	GAF Materials Corp.
Securock® Gypsum-Fiber Roof Board	Gypsum board	USG Corp.
DensDeck® Roof Board	Gypsum board	Georgia Pacific
Structodek®	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™ #12 Fastener	Insulation fastener for steel, wood & concrete decks	various	GAF Materials Corp.
2.	Drill-Tec™ #14 Fastener	Insulation fastener for steel, wood & concrete decks	various	GAF Materials Corp.
3	Drill-Tec™ XHD Fastener	#15 Self tapping coated screw w/#3 Phillips head	various	GAF Materials Corp.
4.	Drill-Tec™ 2-3/8 in. Barbed XHD Plate	Galvalume® coated double barbed steel plate used with fastener	Plate Diameter: 2-3/8"	GAF Materials Corp
5.	Drill-Tec™ 2 in. Double – Barbed Steel Plate	Round galvalume® coated steel plates	Plate Diameter: 2" and 3"	GAF Materials Corp.
6.	Drill-Tec™ 2-3/4 in. Barbed SXHD Plate	2 3/4 in. double barbed plate	Plate Diameter: 2-3/4 in.	GAF Materials Corp.
7.	Drill-Tec™ SXHD	#21 Self tapping coated carbon steel screw w/#3 Phillips head	various	GAF Materials Corp.
8.	Drill-Tec™ AccuTrac® Flat Plate	Square galvalume® coated steel plates	3" square plate	GAF Materials Corp.
9.	Drill-Tec™ AccuTrac® Recessed Plate	Square galvalume® coated steel plates	3" square plate	GAF Materials Corp.
10.	Drill-Tec™ ASAP	Pre-assembled Drill-Tec™ fasteners and metal and plastic plates	Various	GAF Materials Corp.



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APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
11.	Drill-Tec™ Base Sheet Fastener	Base sheet fastening assembly	1.2 in. or 1.7 in.	GAF Materials Corp.
12.	Drill-Tec™ Base Sheet Fastener E	Base sheet fastening assembly	1.2 in. or 1.7 in.	GAF Materials Corp.
13.	OlyBond, OlyBond 500®, OlyBond® 500® Green Adhesive Fastener	Dual component adhesive fastener	N/A	Olympic Mfg. Group, Inc.
14.	Drill-Tec™ RhinoBond® TPO SXHD Plate	Galvalume® coated steel plate with a translucent TPO coating on the top side	3.15" diameter center hole	GAF Materials Corp
15.	Drill-Tec™ RhinoBond® TPO XHD Plate	Galvalume® coated steel plate with a translucent TPO coating on the top side	3.15" diameter center hole	GAF Materials Corp
16.	Drill-Tec™ 3" Steel Plates	Round galvalume® stress plates.	3"	GAF Materials Corp
17.	Drill-Tec™ 3" Standard Steel Plate	Galvalume® coated steel membrane plate	3"	GAF Materials Corp.
18.	Drill-Tec™ Eyehook Accuseam Plates	Galvalume® coated steel 3" Square	3"	GAF Materials Corp.

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corporation	4470	3034749	10.16.2008
	4470	3030813	11.05.2007
	4470	3034394	02.27.2009
	4470	3033135	11.24.2008
	4470	3024051	03.28.2006
	4470	3036141	08.10.2009
	4470	3031350	09.27.2007
	4470	3032856	11.24.2008
	4470	3038318	12.10.2010
	4470	3036614	06.09.2009
PRI Construction Materials Technologies	Physical Properties	GAF-270-02-02	11.15.2010
	E 2178	GAF-276-02-01REV	01.03.2011
Underwriters Laboratories Inc.	Physical Properties	09CA55838	11.04.2010
Exterior Research & Design, LLC	TAS 131	18029.12.02-1	12.06.2002



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APPROVED ASSEMBLIES:

- Membrane Type:** Single Ply, Thermoplastic, TPO
- Deck Type 7I:** Recover Insulated
- Deck Description:** Existing, FM approved, asphaltic roof cover installed above structural concrete deck.

System Type A:
All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck[®] Prime[®] Roof Board, Securock[®] Gypsum-Fiber Roof Board Minimum .25" thick	N/A	N/A

Note: All Insulation board are adhered to the existing asphaltic roof cover with OlyBond 500[®] Adhesive applied in ¾ - 1 inch wide beads spaced 12 in o.c. and walked in. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: EverGuard[®] TPO with minimum side laps 3" wide and sealed with a 1.5" wide heat weld positioned on the outer edge of the lap and adhered to insulation as follows.

DensDeck[®] Prime Roof Board EverGuard[®] H20 Bonding Adhesive applied at a total rate of 0.83 gal./sq, or EverGuard[®] #1121 Bonding Adhesive applied at a total rate of 1.67 gal/sq. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top of the roof cover is broomed and rolled with a weighted roller.
 Or
 Adhered with EverGuard[®] WB181 Bonding Adhesive applied at a rate of 0.84 gal./sq to 1.0 gal./sq. One fourth of the adhesive is applied to the underside of the roof cover and three fourths is applied to the substrate. The adhesive is allowed to become tacky to the touch before the roof cover is applied to the substrate. The top of the roof cover is broomed and rolled with a weighted roller.

Securock[®] Gypsum-Fiber EverGuard[®] #1121 Bonding Adhesive applied at a total rate of 1.67 gal/sq. or EverGuard[®] Low VOC TPO Bonding Adhesive is applied at a rate of 0.91 gal/sq. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. The top of the roof cover is broomed and rolled with a weighted roller.

Maximum Design Pressure: -120 psf; (See General limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO

Deck Type 7I: Recover Insulated

Deck Description: 22 gauge steel deck secured to minimum 0.25" thick steel structural supports spaced maximum, 72" o.c. with ICH Traxx/5, ICH Traxx/4, Teks 4 or Teks 5 fasteners spaced 6" o.c. at each bearing. Deck side laps are secured 24" o.c. with ICH Traxx/1 or Stitch Teks 1 fasteners.

System Type (C1): Insulation is mechanically attached to roof deck. Membrane fully adhered to 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/ft²
DensDeck Prime[®] Roof Board Minimum .25" thick	1, 2, 8	1.45 ft²
Securock[®] Gypsum-Fiber Roof Board Minimum .25" thick	1, 2, 8	1.6 ft²

Note: Insulation 48 x 96 in. is fastened to the steel deck with Drill-Tec[™] #12 Fasteners or Drill-Tec[™] #14 Fasteners and Drill-Tec[™] AccuTrac[®] Flat Plates or Drill-Tec[™] 3" Standard Steel Plate. Additional layers of insulation shall be adhered with OlyBond 500[®] or OlyBond 500[®] Green, asphalt, or mechanically fastened. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: EverGuard[®] TPO or EverGuard[®] TPO FB Ultra adhered to the insulation with EverGuard[®] #1121 Bonding Adhesive applied at a rate of 1.67 gal./sq. or EverGuard[®] H2O Bonding Adhesive applied at a total rate of 0.83 gal./sq. or with EverGuard[®] Low VOC TPO Bonding Adhesive applied at a rate of 0.92 gal./sq. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. or adhered with EverGuard[®] WB181 Bonding Adhesive applied at a rate of 0.84 gal./sq to 1.0 gal./sq. One fourth of the adhesive is applied to the underside of the roof cover and three fourths is applied to the substrate. The adhesive is allowed to become tacky to the touch before the roof cover is applied to the substrate.
Minimum side laps 3" wide and sealed with a 1.5" wide heat weld positioned on the outer edge of the lap. The top of the roof cover is broomed and rolled with a weighted roller.

Maximum Design

Pressure: -52.5 psf; when using #1121, H2O or WB181 Bonding Adhesive (See General limitation #7)
-45 psf; when using Low VOC TPO Bonding Adhesive (See General limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO

Deck Type 7I: Recover Insulated

Deck Description: 22 gauge steel deck secured to minimum 0.25" thick steel structural supports spaced maximum, 72" o.c. with ICH Traxx/5, ICH Traxx/4, Teks 4 or Teks 5 fasteners spaced 6" o.c. at each bearing. Deck side laps are secured 24" o.c. with ICH Traxx/1 or Stitch Teks 1 fasteners.

System Type (C2): Insulation is mechanically attached to roof deck. Membrane fully adhered to 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/ft²
Structodek[®] Minimum 0.5" - 1" thick	1, 2, 8	1 ft²

Note: Insulation 48 x 48 in. is fastened to the steel deck with Drill-Tec[™] #12 Fasteners or Drill-Tec[™] #14 Fasteners Drill-Tec[™] 3" Steel Plates, Drill-Tec[™] 3" Standard Steel Plates, Drill-Tec[™] AccuTrac[®] Flat Plates or Drill-Tec[™] AccuTrac Recessed Plates. Additional layers of insulation shall be adhered with OlyBond 500[®] or OlyBond 500[®]Green, asphalt, or mechanically fastened. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: EverGuard[®] TPO or EverGuard[®] TPO FB Ultra adhered to the insulation with EverGuard[®] H2O Bonding Adhesive applied at a rate of 0.83 gal./sq. Half of the adhesive is applied to the substrate and the other half is applied to the back surface of the roof cover. or adhered with EverGuard[®] WB181 Bonding Adhesive applied at a rate of 0.84 gal./sq to 1.0 gal./sq. One fourth of the adhesive is applied to the underside of the roof cover and three fourths is applied to the substrate. The adhesive is allowed to become tacky to the touch before the roof cover is applied to the substrate.
Minimum side laps 3" wide and sealed with a 1.5" wide heat weld positioned on the outer edge of the lap. Broom the top of the roof cover and rolled with a weighted roller.

Maximum Design

Pressure: -67.5 psf; (See General limitation #7)



- Membrane Type:** Single Ply, Thermoplastic, TPO
- Deck Type 7I:** Recover Insulated
- Deck Description:** 22 gauge, steel deck secured to 0.25" thick structural supports spaced at 72" o.c. using two Teks 5 fasteners and 3/4" washers spaced 6" o.c. along each support. The deck side laps are fastened with Stitch Teks 1 fastener spaced at 12" o.c. along each side lap.
- System Type D(1):** Insulation preliminarily attached; membrane mechanically fastened through insulation to roof deck.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum .25" thick	N/A	N/A
Structodek®, EnergyGuard™ Perlite Recover Board Minimum .5" thick	N/A	N/A
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1" thick	N/A	N/A

Note: Insulation is preliminary attached through the existing roof deck. Additional layers of insulation shall be adhered with OlyBond 500® or OlyBond 500® Green, asphalt or mechanically fastened. Maximum insulation thickness is 1 inch. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: EverGuard® TPO or EverGuard® TPO FB Ultra attached through the preliminary attached insulation as follows.

Drill-Tec™ 2-3/8 in. Barbed XHD Plates and Drill-Tec™ XHD Fasteners spaced 6" o.c. within laps spaced 114" o.c. Side laps are minimum 6" wide and sealed with a minimum 1.625" wide heat weld positioned on the outer edge of the laps.

Maximum Design

Pressure: -52.5 psf; (See General limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO

Deck Type 7I: Recover Insulated

Deck Description: 22 gauge, steel deck secured to 0.25" thick structural supports spaced at 72" o.c. using two Teks 5 fasteners and 3/4" washers spaced 6" o.c. along each support. The deck side laps were fastened with Stitch Teks 1 fastener spaced at 12" o.c. along each side lap.

System Type D(2): Membrane mechanically fastened through insulation to roof deck.

All General and System Limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ RN Polyiso Insulation, Minimum .5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Structodek®, EnergyGuard™ Perlite Recover Board Minimum .5" thick	N/A	N/A
DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum .25" - .5" thick	N/A	N/A

Note: Insulation is preliminarily attached on the existing roof. Coverboard pre-secured through the insulation and existing roof deck. Maximum total insulation and cover board thickness is 1 inch.

Membrane: EverGuard® TPO or EverGuard® TPO FB Ultra attached through the preliminary attached insulation as follows.

Drill-Tec™ 2-3/8 in. Barbed XHD Plates and Drill-Tec™ XHD Fasteners spaced 6" o.c. within laps spaced 14" o.c. Side laps minimum 6" wide and sealed with a minimum 1.625" wide heat weld positioned on the outer edge of the laps.

Maximum Design Pressure: -52.5 psf; (See General limitation #7)



- Membrane Type:** Single Ply, Thermoplastic, TPO
- Deck Type 7I:** Recover Insulated
- Deck Description:** 18, 20 or 22 gauge, 1.5" deep, type B wide rib steel roof deck is secured to minimum 0.25" thick structural supports spaced at maximum 72" o.c. with Tek 4, Tek 5, ICH Traxx/5 fasteners spaced at maximum 6" o.c. at the support. The deck side laps are secured with Stitch Tek 1 or ICH Traxx/1 fasteners spaced at a max 24" o.c.
- System Type D(3):** Insulation preliminarily attached; membrane mechanically fastened through insulation to roof deck.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RM Polyiso Insulation Minimum 1.5" thick	N/A	N/A
DensDeck® Roof Board Minimum .25" thick	N/A	N/A
EnergyGuard™ Perlite Recover Board Minimum .5" thick	N/A	N/A
EnergyGuard™ Perlite Roof Insulation Minimum .75" thick	N/A	N/A
(Optional) Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck® Roof Board Minimum .25" thick	N/A	N/A
EnergyGuard™ Perlite Recover Board Minimum .5" thick	N/A	N/A
EnergyGuard™ Perlite Roof Insulation Minimum .75" thick	N/A	N/A

Note: Insulation is preliminary attached through the existing roof deck. Additional layers of insulation shall be adhered with OlyBond 500® or OlyBond 500®Green, asphalt or mechanically fastened. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

- Membrane:** EverGuard® TPO or EverGuard® TPO FB Ultra attached through the insulation to the deck as described below.
- Fastening #1** EverGuard® TPO or EverGuard® TPO FB Ultra is secured with Drill-Tec™ 2-3/4 in. Barbed SXHD Plates and Drill-Tec™ SXHD Fasteners spaced maximum 6" o.c. with laps spaced at maximum 114" o.c. Side laps are minimum 6" wide and sealed with a minimum 1.875" wide heat weld.
Maximum Design Pressure: -60 psf; (See General limitation #7)



Fastening #2 EverGuard® TPO or EverGuard® TPO FB Ultra is secured with Drill-Tec™ 2-3/8 in. Barbed XHD Plates and Drill- Tec™ XHD Fasteners spaced maximum 6" o.c. with laps spaced at maximum 54" o.c. Side laps are minimum 6" wide and sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -60 psf; (See General limitation #7)

Fastening #3 EverGuard® TPO or EverGuard® TPO FB Ultra is secured with Drill-Tec™ 2-3/8 in. Barbed XHD Plates and Drill-Tec™ XHD Fasteners spaced maximum 6" o.c. with laps spaced at maximum 90" o.c. Side laps are minimum 6" wide and sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -45 psf; (See General limitation #7)

Fastening #4 EverGuard® TPO or EverGuard® TPO FB Ultra is secured with Drill-Tec™ 2-3/8 in. Barbed XHD Plates and Drill-Tec™ XHD Fasteners or Drill-Tec™ 2-3/4 in. Barbed SXHD Plates and Drill-Tec™ SXHD fasteners spaced maximum 12" o.c. with laps spaced at maximum 54" o.c. Side laps are minimum 6" wide and sealed with a minimum 1.5" wide heat weld.

Maximum Design Pressure: -45 psf; (See General limitation #7)

Maximum Design Pressure: See Fastening Option above



Membrane Type: Single Ply, Thermoplastic, TPO

Deck Type 7I: Recover Insulated

Deck Description: Minimum 22 gauge steel deck, grade 80, is secured to minimum 0.25" thick steel structural supports spaced maximum 72" o.c. with ICH Traxx/5 fasteners spaced 6" o.c. at each bottom rib. Deck side laps are secured 24" o.c. with ICH Traxx/1 fasteners.

System Type D(4): Membrane mechanically fastened through insulation to roof deck.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum .25" - .625" thick	N/A	N/A
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, Minimum 1" thick	N/A	N/A
EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RN Tapered Polyiso Insulation, Structodek® Minimum .05" - 1" thick	N/A	N/A

Note: Insulation is preliminary attached through the existing steel deck. Additional layers of insulation shall be adhered with OlyBond 500® or OlyBond 500®Green, asphalt, or mechanically fastened. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: EverGuard® TPO or EverGuard® TPO FB Ultra is secured with Drill-Tec™ RhinoBond® TPO SXHD Plate or Drill-Tec™ RhinoBond® TPO XHD Plate with Drill-Tec™ SXHD fasteners. Stress plates and fasteners are placed on a 24" x 24" grid. The roof cover is bonded to stress plates using the RhinoBond® Portable Bonding Tool. Weighted cooling magnets are placed over the bonded membrane/plates for a minimum of 45 seconds. Side laps are minimum 3" wide and sealed with a minimum 1.5" wide heat weld positioned on the outer edge of the lap.

Maximum Design Pressure: -60 psf; (See General limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO

Deck Type 7I: Recover Insulated

Deck Description: Minimum 22 gauge steel deck, grade 80, is secured to minimum 0.25" thick steel structural supports spaced maximum 72" o.c. with ICH Traxx/5 fasteners spaced 6" o.c. at each bottom rib. Deck side laps are secured 24" o.c. with ICH Traxx/1 fasteners.

System Type D(5): Membrane mechanically fastened through insulation to roof deck.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum .25" - .625" thick	N/A	N/A
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, Minimum 1" thick	N/A	N/A
EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RN Tapered Polyiso Insulation, Structodek® Minimum .05" - 1" thick	N/A	N/A

Note: Insulation is preliminary attached through the existing roof deck. Additional layers of insulation shall be adhered with OlyBond 500® or OlyBond 500®Green, asphalt, or mechanically fastened. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: EverGuard® TPO or EverGuard® TPO FB Ultra is secured with Drill-Tec™ RhinoBond® TPO XHD Plates with Drill-Tec™ XHD Fasteners. Apply fasteners at a rate of 6 fasteners per 48" x 96" board. Fasteners are located 6" from the 96" board dimensions and 12" and 48" from the 48" board dimensions. The roof cover is bonded to stress plates using RhinoBond Portable Bonding Tool. Weighted cooling magnets are placed over the bonded membrane/plates for a minimum of 45 seconds. Side laps are minimum 3" wide and sealed with a minimum 1.5" wide heat weld. positioned on the outer edge of the lap

Maximum Design Pressure: -45 psf; (See General limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO

Deck Type 7I: Recover Insulated

Deck Description: 18 gauge 1.5" type B, wide rib, 1.5 in. deep is secured to minimum 0.25 in. thick structural supports spaced maximum 72 in. o.c. with Teks 4, Teks 5, ICH Traxx/4 or ICH Traxx/5 fasteners spaced maximum 6 in. o.c. along each support. Deck side laps are fastened with Stitch Teks 1 or ICH Traxx/1 fasteners spaced maximum 24 in. o.c.

System Type D(6): Membrane mechanically fastened through insulation to roof deck.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum .25" thick	N/A	N/A
Structodek®, EnergyGuard™ Perlite Recover Board Minimum .5" thick	N/A	N/A
EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation Minimum 1" thick	N/A	N/A

Note: 4' x 4' Insulation board preliminary fastened to the roof deck. Maximum insulation thickness is 1 inch. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: EverGuard® TPO mechanically fastened to steel or concrete deck as follows.
Drill-Tec™ XHD Fastener and Drill-Tec™ Eyehook Accuseam Plates or Drill-Tec™ Eyehook Seam Plate spaced maximum 6" o.c. placed within minimum 6" wide side laps which are spaced at maximum 114 in o.c. Laps are sealed with minimum 1.625 in. wide heat welds positioned on the outer edge of the lap.

Maximum Design

Pressure: -52.5 psf; (See General limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO

Deck Type 7I: Recover Insulated

Deck Description: 18 gauge 1.5" type B, wide rib, 1.5 in. deep is secured to minimum 0.25 in. thick structural supports spaced maximum 72 in. o.c. with Teks 4, Teks 5, ICH Traxx/4 or ICH Traxx/5 fasteners spaced maximum 6 in. o.c. along each support. Deck side laps are fastened with Stitch Teks 1 or ICH Traxx/1 fasteners spaced maximum 24 in. o.c.

System Type D(7): Membrane mechanically fastened through insulation to roof deck.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ RN Polyiso Insulation Minimum .5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck® Roof Board, Securock® Gypsum-Fiber Roof Board Minimum .25" thick	N/A	N/A
Structodek®, EnergyGuard™ Perlite Recover Board Minimum .5" thick	N/A	N/A

Note: 4' x 4' Insulation board is loose laid on the existing roof. Cover board is preliminary fastened through the insulation to the roof deck. Maximum insulation thickness is 1 inch. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: EverGuard® TPO mechanically fastened to steel or concrete deck as follows.

Drill-Tec™ XHD Fastener and Drill-Tec™ Eyehook Accuseam Plates or Drill-Tec™ Eyehook Seam Plate spaced maximum 6" o.c. placed within minimum 6" wide side laps which are spaced at maximum 114 in o.c. Laps are sealed with minimum 1.625 in. wide heat welds positioned on the outer edge of the lap.

Maximum Design

Pressure: -52.5 psf; (See General limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 7I: Recover Non-Insulated
Deck Description: 2500 psi Structural Concrete or minimum 22 gauge steel deck
System Type F: Membrane adhered to existing granular roof system.

All General and System Limitations apply.

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

Membrane: EverGuard® TPO FB Ultra is fully adhered to an existing granule surfaced roof covering using hot asphalt applied at 25 lbs./sq.

Maximum Design Pressure: -405 psf; (See General Limitation #9)



RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

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.: 10-0527.01
Expiration Date: 05/12/16
Approval Date: 05/12/11
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