MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

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® TPO Single Ply Roofing Systems over Cementitious Wood Fiber 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. 15-0729.16 and consists of pages 1 through 18.
The submitted documentation was reviewed by Jorge L. Acebo.

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply Roofing
Material: TPO
Deck Type: Cementitious Wood Fiber
Maximum Design Pressure: -375 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced single-ply membrane.
EverGuard Extreme® TPO	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced single-ply membrane designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO FB Ultra	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced, fleece back single-ply membrane.
EverGuard® TPO Fleece-Back Membrane	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced, fleece back single-ply membrane.
EverGuard Extreme® TPO FB Ultra	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced, fleece back single-ply membrane designed for advanced protection against heat aging and UV degradation.
EverGuard Extreme® TPO Fleece-Back Membrane	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced, fleece back single-ply membrane designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Coated Metal	4' x 10' sheets	Proprietary	24 gauge steel with a 25 mil thick GAF TPO for edge detailing.
EverGuard Extreme® TPO Coated Metal	4' x 10' sheets	Proprietary	24 gauge steel with a 25 mil thick GAF TPO for edge detailing and designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Cover Tape	6" x 100′ 10" x 100′	Proprietary	GAF TPO laminated to white butyl tape primarily used for edge metal details.
EverGuard® TPO Cover Tape Heat-Weld	6" x 100′	Proprietary	Flashing strip manufactured from unreinforced GAF TPO laminated to a six inch wide strip, half the strip with a self-adhered side and half the strip with a heat-weldable edge; used for edge metal details.

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO Heat-Weld Cover Tape	6" x 100′	Proprietary	Flashing strip manufactured from unreinforced GAF TPO laminated to a six inch wide strip, half the strip with a self-adhered side and half the strip with a heat-weldable edge; used for edge metal details.
EverGuard Extreme® TPO Cover Tape Heat-Weld	6" x 100′	Proprietary	Flashing strip manufactured from unreinforced GAF TPO designed for advanced protection against heat aging and UV degradation. Laminated to a six inch wide strip, half the strip with a self-adhered side and half the strip with a heat-weldable edge; used for edge metal details.
EverGuard® TPO Detailing Membrane	24" x 50'	Proprietary	Unreinforced flashing material manufactured from GAF TPO.
EverGuard Extreme® TPO Detailing Membrane	24" x 50'	Proprietary	Unreinforced flashing material manufactured from GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Flashing Strip	Various	Proprietary	Reinforced flashing membrane manufactured from GAF TPO.
EverGuard Extreme® TPO Flashing Strip	Various	Proprietary	Reinforced flashing membrane manufactured from GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Pourable Sealer Pocket	9" x 6" x 4" oval with 3" base flange	Proprietary	Pourable sealer pocket is molded with GAF TPO compound to a nominal 70 mil thickness designed for waterproofing irregular shaped roof penetrations.
EverGuard Extreme® TPO Pourable Sealer Pocket	9" x 6" x 4" oval with 3" base flange	Proprietary	Pourable sealer pocket is molded from GAF TPO designed for advanced protection against heat aging and UV degradation compounded to a nominal 70 mil thickness designed for waterproofing irregular shaped roof penetrations.
EverGuard® TPO RTA (Roof Transition Anchor) Strip™	6" x 100′ roll	Proprietary	Reinforced GAF TPO membrane with pressure sensitive adhesive primarily used to secure membrane transitions from the field to vertical surfaces.

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO RTA Strip™	6" x 100′ roll	Proprietary	Reinforced GAF TPO membrane with pressure sensitive adhesive primarily used to secure membrane transitions from the field to vertical surfaces.
EverGuard Extreme® TPO RTA (Roof Transition Anchor) Strip™	6" x 100′ roll	Proprietary	Reinforced GAF TPO membrane with pressure sensitive adhesive primarily used to secure membrane transitions from the field to vertical surfaces.
EverGuard Extreme® TPO RTA Strip™	6" x 100′ roll	Proprietary	Reinforced GAF TPO membrane with pressure sensitive adhesive primarily used to secure membrane transitions from the field to vertical surfaces.
EverGuard® TPO Split Pipe Boot	1”- 2” 3” - 5” 6” - 8”	Proprietary	Reinforced GAF TPO membrane split to accommodate most common pipes and conduits.
EverGuard Extreme® TPO Split Pipe Boot	1”- 2” 3” - 5” 6” - 8”	Proprietary	Reinforced GAF TPO designed for advanced protection against heat aging and UV degradation split to accommodate most common pipes and conduits.
EverGuard® TPO Square Tube Wrap	4" x 4" 4" x 6" 6" x 6"	Proprietary	Reinforced GAF TPO with split design overlap to be wrapped around square or rectangular tubing.
EverGuard Extreme® TPO Square Tube Wrap	4" x 4" 4" x 6" 6" x 6"	Proprietary	Reinforced GAF TPO designed for advanced protection against heat aging and UV degradation with split design overlap to be wrapped around square or rectangular tubing.
EverGuard® TPO Corner Curb Wrap	Various	Proprietary	Corners fabricated from reinforced GAF TPO.
EverGuard Extreme® TPO Corner Curb Wrap	Various	Proprietary	Corners fabricated from reinforced GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Scupper	4" x 6" x 12" 8" x 10" x 12"	Proprietary	Scupper manufactured from coated metal and unreinforced GAF TPO.
EverGuard® TPO T-Joint Cover Patch	100 patches per box	Proprietary	T-Joint patch manufactured from unreinforced GAF TPO.
EverGuard Extreme® TPO T-Joint Cover Patch	100 patches per box	Proprietary	T- Joint patch manufactured from unreinforced GAF TPO designed for advanced protection against heat aging and UV degradation.

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO Vent	2 vents per carton	Proprietary	Vent manufactured from reinforced GAF TPO membrane and galvanized steel.
EverGuard® TPO T-Top Vent	4" or 6"	Proprietary	Vent manufactured from reinforced GAF TPO membrane and galvanized steel.
EverGuard® TPO Walkway Rolls	Rolls 1/8" x 30" x 50'	Proprietary	Standard duty TPO walkway rolls.
EverGuard® TPO Inside Corner	6" x 6" x 5¼"	Proprietary	Inside corner manufactured from unreinforced GAF TPO.
EverGuard Extreme® TPO Inside Corner	6" x 6" x 5-1/4"	Proprietary	Inside corner manufactured from unreinforced GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Universal Corner	Various	Proprietary	Universal corners manufactured from GAF TPO that are heat seamable and designed to accommodate both inside and outside corners of base and curb flashings.
EverGuard Extreme® TPO Universal Corners	Various	Proprietary	Universal corners manufactured from GAF TPO designed for advanced protection against heat aging and UV degradation are heat seamable and designed to 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 boot molded from GAF TPO and supplied with stainless steel clamping rings.
EverGuard Extreme® TPO Vent Boot	1" - 6" o.d. 6 pcs. Crtn.	Proprietary	Vent pipe boot molded from GAF TPO designed for advanced protection against heat aging and UV degradation and supplied with stainless steel clamping rings.
EverGuard® TPO Expansion Joint Cover	Various	Proprietary	Low profile joint cover manufactured from reinforced GAF TPO.
EverGuard Extreme® TPO Expansion Joint Cover	Various	Proprietary	Low profile joint cover manufactured from reinforced GAF TPO.
EverGuard Extreme® Expansion Joint Cover	Various	Proprietary	Low profile joint cover manufactured from reinforced GAF TPO.
EverGuard® TPO Standing Seam Tape	6"	Proprietary	White butyl cover tape.

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO Cut Edge Sealant	1 quart squeeze tube	Proprietary	Clear solvent based sealant for TPO cut edges.
EverGuard® Low VOC Cut Edge Sealant	1 quart squeeze tube	Proprietary	Low VOC clear solvent based sealant for TPO cut edges.
EverGuard® TPO Drain	Various	Proprietary	Spun aluminum drain pre-flashed with unreinforced GAF TPO.
EverGuard® TPO Fluted Corner	8” diameter nominal .05” non-reinforced	Proprietary	Flashing for outside corners of base and curb flashing manufactured from non-reinforced GAF TPO.
EverGuard Extreme® TPO Fluted Corner	8” diameter nominal .05” non-reinforced	Proprietary	Flashing for outside corners of base and curb flashing manufactured from non-reinforced GAF TPO designed for advanced protection against heat aging and UV degradation.
EverGuard® TPO Seam Cleaner	1 gallon	Proprietary	Solvent-based seam cleaner.
EverGuard® TPO Primer	1 gallon	Proprietary	Solvent-based VOC Compliant TPO primer.
EverGuard® Low VOC TPO Primer	1 gallon	Proprietary	Low VOC TPO primer.
EverGuard® TPO Low VOC Primer	1 gallon	Proprietary	Low VOC TPO primer.
TOPCOAT® Membrane	1, 5 or 55 gallons	ASTM D6083	Water-based elastomeric coating.
TOPCOAT® TPO Red Primer	1 gallon	Proprietary	Solvent-based primer for TPO membranes.
TPO Red Primer	1 Gallon	Proprietary	Solvent-Based primer for TPO membranes.
TOPCOAT® FireOut™ Fire Barrier Coating	5 or 55 gallons	ASTM E96	Low VOC, water-based fire barrier coating.
TOPCOAT® FlexSeal™	1 or 5 gallons or 1 qt. tube	TAS 139	Solvent-based elastomeric sealant.
EverGuard® CleanWeld™ Conditioner	I gallon	Proprietary	Low VOC cleaner for TPO
EverGuard® WB181 Bonding Adhesive	5 gallons	Proprietary	Water-based bonding adhesive for use with smooth TPO, fleece backed TPO and fleece backed PVC membranes.
EverGuard® #1121 Bonding Adhesive	5 gallons	Proprietary	Solvent based adhesive for fully adhered TPO systems and membrane flashing.

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO 3 Square Low VOC Bonding Adhesive	5 Gallons	Proprietary	Low VOC TPO bonding Adhesive that provides 3 square coverage per pail.
EverGuard® TPO Quick Spray Adhesive	40.15 lbs	Proprietary	Sprayable solvent based adhesive for fully adhered TPO systems and membrane flashing.
EverGuard® TPO Quick Spray Adhesive LV50	36.3 lbs	Proprietary	Sprayable Low VOC solvent based adhesive for fully adhered TPO systems and membrane flashing.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF
Securock Gypsum-Fiber Roof Board	Fiber-reinforced roof board	USG

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec Locking Impact Nail	Preassembled fastener/plate unit for base ply and insulation attachment to cementitious wood fiber, poured gypsum and lightweight insulating concrete decks.	Various	GAF

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
UL LLC	03CA38009	UL 790	01/21/04
	08CA37926	UL 790	09/23/09
	08CA49140	UL 790	09/23/09
	R1306	UL 790	03/11/19
	R10689	UL 790	06/08/18
Factory Mutual Research Corp.	FM 4470	3013788	01/10/03
	FM 4470	3020588	03/24/04
	FM 4470	3031350	09/27/07
	FM 4470	3036141	08/10/09
	FM 4470	3038318	12/10/10
	FM 4470	3041769	09/27/12
	FM 4470	3042905	01/10/12
	FM 4470	3053501	01/14/16
	FM 4470	RR221253	02/07/20
Exterior Research & Design, LLC	01881.11.03-2	TAS 114	11/26/03
Atlantic &Caribbean Roof Consulting, LLC	11-016	TAS -114	04/07/11
	11-017	TAS -114	04/07/11
	12-012	TAS -114	04/23/12
	12-014	TAS -114	04/23/12
PRI Construction Materials Technologies, LLC	GAF-122-02-01	TAS 139	05/09/06
	GAF-289-02-01	ASTM D6878/TAS 131	09/07/11
	GAF-306-02-01	ASTM E96	08/23/11
	GAF-369-02-01	ASTM C1289	10/23/12
	GAF-421-02-01	ASTM D6878	10/22/13
	GAF-424-02-01	ASTM D6878/TAS 131	11/11/13
	GAF-453-02-06	TAS 114	12/10/13
	GAF-464-02-01	ASTM C1289	02/06/14
	GAF-499-02-01	ASTM D6083	03/12/14
	GAF-508-02-01	Physical Properties	03/12/14
	GAF 671-02-01	ASTM D6083	06/30/16

APPROVED ASSEMBLIES:

Membrane Type: TPO

Deck Type 5I: Cementitious Wood Fiber Deck, Insulated

Deck Description: Cementitious Wood Fiber Deck (Tectum)

System Type A(1): Membrane adhered to adhered 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.

One or more layers each of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation Minimum 1" thick	**N/A**	**N/A**

Note: Insulation layers shall be adhered to the deck using Olybond 500® or Olybond 500® Green applied in 1" wide beads spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: One ply of EverGuard® TPO or EverGuard Extreme® TPO fully adhered to the insulation with EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal. /sq. Apply half to the insulation and half to the underside of the membrane, roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.

Or

One ply of EverGuard® TPO or EverGuard Extreme® TPO fully adhered to the insulation with EverGuard® TPO 3 Square Low VOC Bonding Adhesive applied at a total rate of 1.67 gal. /sq. Apply half to the insulation and half to the underside of the membrane, roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.

Maximum Design Pressure: -375 psf. (See General limitation #9)

Membrane Type: TPO

Deck Type 5I: Cementitious Wood Fiber Deck, Insulated

Deck Description: Cementitious Wood Fiber Deck (Tectum)

System Type A(2): Membrane adhered to adhered 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.

One or more layers each of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ Polyiso Insulation Minimum 1" thick	**N/A**	**N/A**

Note: Insulation layers shall be adhered to the deck using Olybond 500® or Olybond 500® Green applied in 1" wide beads spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: One ply of EverGuard® TPO or EverGuard Extreme® TPO fully adhered to the insulation with EverGuard® TPO Quick Spray Adhesive applied at a total rate of 0.705 lbs./sq, Apply half to the insulation and half to the underside of the membrane, roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.
Or
One ply of EverGuard® TPO or EverGuard Extreme® TPO fully adhered to the insulation with EverGuard® TPO Quick Spray Adhesive LV50 applied at a total rate of 0.837 lbs./sq. Apply half to the insulation and half to the underside of the membrane, roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.

Maximum Design Pressure: -82.5 psf. (See General limitation #9)

Membrane Type: TPO

Deck Type 5I: Cementitious Wood Fiber Deck, Insulated

Deck Description: Cementitious Wood Fiber Deck (Tectum)

System Type A(3): Membrane adhered to adhered 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.

One or more layers each of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ RA Polyiso Insulation Minimum 1" thick	**N/A**	**N/A**

Note: Insulation layers shall be adhered to the deck using Olybond 500® or Olybond 500® Green applied in 1" wide beads spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: One ply of EverGuard® TPO or EverGuard Extreme® TPO fully adhered to the insulation with EverGuard® TPO Quick Spray Adhesive applied at a total rate of 0.705 lbs./sq, Apply half to the insulation and half to the underside of the membrane, roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.

Maximum Design Pressure: -75 psf. (See General limitation #9)

Membrane Type: TPO

Deck Type 5I: Cementitious Wood Fiber Deck, Insulated

Deck Description: Cementitious Wood Fiber Deck (Tectum)

System Type A(4): Membrane adhered to adhered 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.

One or more layers each of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ RA Polyiso Insulation Minimum 1" thick	**N/A**	**N/A**

Note: Insulation layers shall be adhered to the deck using Olybond 500® or Olybond 500® Green applied in 1" wide beads spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: One ply of EverGuard® TPO or EverGuard Extreme® TPO fully adhered to the insulation with EverGuard® TPO Quick Spray Adhesive LV50 applied at a total rate of 0.837 lbs./sq. Apply half to the insulation and half to the underside of the membrane, roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.

Maximum Design Pressure: -375 psf. (See General limitation #9)

Membrane Type: TPO

Deck Type 5I: Cementitious Wood Fiber Deck, Insulated

Deck Description: Cementitious Wood Fiber Deck (Tectum)

System Type A(5): Membrane adhered to adhered 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.

One or more layers each of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ RA Polyiso Insulation Minimum 1" thick	**N/A**	**N/A**

Note: Insulation layers shall be adhered to the deck using Olybond 500® or Olybond 500® Green applied in 1" wide beads spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: One ply of EverGuard® TPO or EverGuard Extreme® TPO adhered to the insulation with EverGuard® WB181 Bonding Adhesive applied at a total rate of 0.84 gal./sq. half applied to the insulation and half applied to the underside of the membrane. Allow it to become tacky to the touch before applying the roof cover to the substrate. Roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.

Or

One ply of EverGuard® TPO or EverGuard Extreme® TPO adhered to the insulation with EverGuard® Quick Spray Adhesive LV50 applied at a total rate of 0.837 lbs./sq. half applied to the insulation and half applied to the underside of the membrane. Allow it to become tacky to the touch before applying the roof cover to the substrate. Roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.

Maximum Design Pressure: -187.5 psf. (See General limitation #9)

Membrane Type: TPO

Deck Type 5I: Cementitious Wood Fiber Deck, Insulated

Deck Description: Cementitious Wood Fiber Deck (Tectum)

System Type A(6): Membrane adhered to adhered 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.

One or more layers each of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ RA Polyiso Insulation Minimum 1" thick	**N/A**	**N/A**

Note: Insulation layers shall be adhered to the deck using Olybond 500® or Olybond 500® Green applied in 1" wide beads spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: One ply of EverGuard® TPO or EverGuard Extreme® TPO fully adhered to the insulation with EverGuard® TPO Quick Spray Adhesive applied at a total rate of 0.705 lbs./sq, Apply half to the insulation and half to the underside of the membrane, roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.

Maximum Design Pressure: -75 psf. (See General limitation #9)

Membrane Type: TPO

Deck Type 5I: Cementitious Wood Fiber Deck, Insulated

Deck Description: Cementitious Wood Fiber Deck (Tectum)

System Type A(7): Membrane adhered to adhered 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.

One or more layers each of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Securock Gypsum-Fiber Roof Board Minimum 1/4" thick	**N/A**	**N/A**

Note: Insulation layers shall be adhered to the deck using LRF Adhesive M applied in 1" wide ribbons spaced 12" o.c. to a cementitious Wood Fiber (Tectum) deck. Insulation panels listed are minimum sizes and dimensions. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: One ply of EverGuard® TPO FB Ultra partially adhered to the insulation with LRF Adhesive M applied in 1" wide ribbons spaced 6" o.c. over 1/4" thick Securock Gypsum-Fiber Roof Board, roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.

Maximum Design Pressure: -367.5 psf. (See General limitation #9)

Membrane Type: TPO

Deck Type 5I: Cementitious Wood Fiber Deck, Insulated

Deck Description: Cementitious Wood Fiber Deck (Tectum)

System Type A(8): Membrane adhered to adhered 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.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Securock Gypsum-Fiber Roof Board Minimum 1/4" thick	**N/A**	**N/A**

Note: Insulation layers shall be adhered to the deck using Olybond 500® or Olybond 500® Green applied in 1" wide beads spaced 12" o.c. Insulation panels listed are minimum sizes and dimensions. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: One ply of EverGuard® TPO FB Ultra or EverGuard® Extreme TPO FB Ultra partially adhered to the insulation with LRF Adhesive O applied in 1" wide ribbons spaced 6" o.c. roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.

Maximum Design Pressure: -242.5 psf. (See General Limitation #9)

Membrane Type: TPO

Deck Type 5I: Cementitious Wood Fiber Deck, Insulated

Deck Description: Cementitious Wood Fiber Deck (Tectum)

System Type C: All layers of insulation are mechanically attached to roof deck. Membrane is subsequently fully adhered to 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.

One or more layers each of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
EnergyGuard™ Polyiso Insulation Minimum 2" thick	**1**	**1:1.33**

Insulation Note: All Insulation layers shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Membrane: One ply of EverGuard® TPO or EverGuard® Extreme TPO fully adhered to the insulation with EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal. /sq. Apply half to the insulation and half to the underside of the membrane, roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.
Or
One ply of EverGuard® TPO or EverGuard® Extreme TPO fully adhered to the insulation with EverGuard® Quick Spray Adhesive applied at a total rate of 0.705 lbs. /sq. Apply half to the insulation and half to the underside of the membrane, roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.
Or
One ply of EverGuard® TPO or EverGuard® Extreme TPO fully adhered to the insulation with EverGuard® Quick Spray Adhesive LV50 applied at a total rate of 0.837 lbs. /sq. Apply half to the insulation and half to the underside of the membrane, roll with a weighted roller. Apply a minimum of 1½" wide heat weld in the side lap of the sheets.

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

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