



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 315-2599

www.miamidade.gov/economy

Tremco CPG, Inc.
3735 Green Road
Beachwood, OH 44122

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: TremPly TPO Single Ply Roofing Systems over Wood 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 NOA-No. 20-0701.04 and consists of pages 1 through 19.
The submitted documentation was reviewed by Alex Tigera.



NOA-No.: 22-0228.30
Expiration Date: 09/22/25
Approval Date: 09/29/22
Page 1 of 19

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply Roofing
Material: TPO
Deck Type: Wood
Maximum Design Pressure: -82.50 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
TremPly TPO	Various	ASTM D 6878 TAS 131	Thermoplastic olefin reinforced single-ply membrane.
TremPly Max TPO	Various	ASTM D 6878 TAS 131	Thermoplastic olefin reinforced single-ply membrane designed for advanced protection against heat aging and UV degradation.
TremPly TPO FB	Various	ASTM D 6878 TAS 131	Thermoplastic olefin reinforced, fleece back single-ply membrane
TremPly Max TPO FB	various	ASTM D 6878 TAS 131	Thermoplastic olefin reinforced fleece back single-ply membrane designed for advanced protection against heat aging and UV degradation.
Tremco CPG Low Rise Foam Insulation Adhesive (BG)	1:1 applicator	Proprietary	Two-part VOC free polyurethane foam adhesive.
Tremco CPG Low Rise Foam Insulation Adhesive	1:1 applicator	Proprietary	Two-part VOC free polyurethane foam adhesive.
TremPly Bonding Adhesive	5 gallons	Proprietary	Solvent based adhesive for fully adhered TPO systems and membrane flashing.
TremPly TPO WB Bonding Adhesive	5 gallons	Proprietary	Water-based bonding adhesive for use with smooth TPO, fleece backed TPO and fleece backed PVC membranes.
TremPly TPO LV Bonding Adhesive	5 gallons	Proprietary	Low VOC adhesive for TPO fully adhered systems and flashings.
TremPly TPO Detailing Membrane	24" x 50'	Proprietary	Unreinforced flashing material manufactured from Tremco CPG TPO.



TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
TremPly Max TPO Detailing Membrane	24" x 50'	Proprietary	Unreinforced flashing material manufactured from Tremco CPG TPO designed for advanced protection against heat aging and UV degradation.
TremPly TPO Flashing Strip	Various	Proprietary	Reinforced flashing membrane manufactured from Tremco CPG TPO.
TremPly TPO Split Pipe Boot	1"- 2" 3" - 5" 6" - 8"	Proprietary	Reinforced Tremco CPG TPO membrane split to accommodate most common pipes and conduits.
TremPly Max TPO Split Pipe Boot	1"- 2" 3" - 5" 6" - 8"	Proprietary	Reinforced Tremco CPG TPO designed for advanced protection against heat aging and UV degradation split to accommodate most common pipes and conduits.
TremPly TPO Square Tube Wrap	4" x 4" 4" x 6" 6" x 6"	Proprietary	Reinforced Tremco CPG TPO with split design overlap to be wrapped around square or rectangular tubing.
TremPly Max TPO Square Tube Wrap	4" x 4" 4" x 6" 6" x 6"	Proprietary	Reinforced Tremco CPG TPO designed for advanced protection against heat aging and UV degradation with split design overlap to be wrapped around square or rectangular tubing.
TremPly TPO Corner Curb Wrap	Various	Proprietary	Corners fabricated from reinforced Tremco CPG TPO.
TremPly Max TPO Corner Curb Wrap	Various	Proprietary	Corners fabricated from reinforced Tremco CPG TPO designed for advanced protection against heat aging and UV degradation.
TremPly TPO T-Joint CP	100 patches per box	Proprietary	T-Joint patch manufactured from unreinforced Tremco CPG TPO.
TremPly TPO Walkway Rolls	Rolls 1/8" x 30" x 50'	Proprietary	Standard duty TPO walkway rolls.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:**TABLE 1**

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
TremPly TPO Universal Corners	various	Proprietary	Universal corners manufactured from Tremco CPG TPO that are heat seamable and designed to accommodate both inside and outside corners of base and curb flashings manufactured from Tremco CPG TPO.
TremPly TPO Vent Boot	1" - 6" o.d. 6 pcs. crtn.	Proprietary	Vent pipe boot molded from Tremco CPG TPO and supplied with stainless steel clamping rings.
TremPly TPO Seam Cleaner	1 gallon	Proprietary	Solvent based seam cleaner.
TremPly TPO Fluted Corner	8" diameter nominal .05" non-reinforced	Proprietary	Flashing for outside corners of base and curb flashing manufactured from non-reinforced Tremco CPG TPO.



APPROVED INSULATIONS:**TABLE 2**

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
H-Shield HD	High density polyisocyanurate foam insulation	Hunter Panels, LLC
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville Corp.
DensDeck® Roof Board	Gypsum board	Georgia Pacific Gypsum LLC
SECUROCK® Gypsum-Fiber Roof Board	Gypsum board	United States Gypsum Corporation
SECUROCK® Glass-Mat Roof Board	Glass faced gypsum board	United States Gypsum Corporation
Structodek® High Density Fiberboard Roof Insulation	High-density fiberboard	Blue Ridge FiberBoard, Inc.



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	#12 Standard Roofgrip	Phillips head, modified buttress thread, pinch point, carbon steel fastener for use in steel or wood decks. With CR-10 coating. Available with a pinch point or drill point.	#12 x 8" max. length, #3 Phillips head	OMG, Inc.
2.	#14 Roofgrip	Truss head, self-drilling, pinch point, high thread fastener for use in steel, wood or concrete decks.	#14 x 16" max. Length, #3 Phillips head.	OMG, Inc.
3.	AccuTrac Plate	Galvalume® steel plate with recess for use with OMG fasteners.	3" square; .017" thick.	OMG, Inc.
4.	AccuTrac Flat Bottom	A2-SS aluminized steel plate for use with O fasteners.	3" square; .017" thick	OMG, Inc.
5.	OMG 2-3/8" Barbed XHD Plate	Round galvanized steel stress plates for use with OMG fasteners.	2-3/8" round	OMG, Inc.
7.	OMG Eyehook Accuseam Plate	Round Galvalume® steel plate for use with OMG fasteners.	2-3/8" round	OMG, Inc.
8.	3 in. Round Metal Plate	Round Galvalume® steel stress plate with reinforcing ribs and recessed for use with OMG fasteners.	3" round	OMG, Inc.
9.	3 in. Ribbed Galvalume Plate	Galvalume® coated steel stress plate for use with approved OMG fasteners.	3" round	OMG, Inc.
10.	3 in. Ribbed Galvalume Plate (Flat)	Round Galvalume® plated steel stress plate with reinforcing ribs for use with OMG fasteners.	3" round	OMG, Inc.
11.	Stainless ASAP RoofGrip Pre-Assembled System	#12 Fastener with OMG 3" Standard Steel Plate.	See Components	OMG, Inc.
12.	RhinoBond Insulation Plate (TPO & PVC)	Gold primer coated plate for use with TPO membranes.	3" Round	OMG, Inc.

APPROVED FASTENERS:

<u>Fastener Number</u>	<u>Product Name</u>	TABLE 3 <u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
13.	RhinoBond TreadSafe Plate (TPO & PVC)	Round, coated Galvalume® plate (Gold primer coating) used for TPO membranes.	3" Round	OMG, Inc.

EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Report</u>	<u>Name</u>	<u>Date</u>
UL LLC	R19254	ASTM D226	09/13/01
	03CA38009	UL 790	01/21/04
	08CA37926	UL 790	09/23/09
	08CA49140	UL 790	09/23/09
	R10689	UL 790	03/14/13
	R1306	UL 790	05/22/13
Factory Mutual Research Corp.	3B9Q1.AM	FM 4470	01/08/98
	3020588	FM 4470	03/24/04
	3023458	FM 4470	07/18/06
	3029832	FM 4470	05/11/07
	3026964	FM 4470	07/25/07
	3033135	FM 4470	11/24/08
	3036980	FM 4470	08/14/09
	3035658	FM 4470	09/16/09
	3040738	FM 4470	11/16/10
	3038318	FM 4470	12/10/10
	3041769	FM 4470	05/26/11
	3038278	FM 4470	11/18/11
	3042905	FM 4470	01/10/12
	3045166	FM 4470	07/24/12
	3045363	FM 4470	10/12/12
	3047636	FM 4470	08/08/13
IRT-ARCON	02-005	TAS 114	01/24/02
	02-008	TAS 114	01/24/02
Atlantic & Caribbean Roof Consulting, LLC	08-022-R1	TAS 114	01/15/15
	11-056-R2	TAS 114	01/26/15
Exterior Research & Design, LLC	01509.03.04-2	TAS 114-J	03/16/04
Trinity-ERD	G31360.03.10	ASTM D6164	03/31/10
	G34140.04.11-2	ASTM D6163	04/25/11
	G34140.04.11-4-R2	ASTM D4601	06/04/15
	G34140.04.11-5-R3	ASTM D4897	06/04/15
PRI Construction Materials Technologies, LLC	GAF-122-02-01	TAS 139	05/07/06
	GAF-270-02-02	ASTM D226/ASTM D146	08/03/10
	GAF-276-02-01REV	ASTM D6083	01/04/11
	GAF-306-02-01	ASTM E96	08/23/11

NOA-No.: 22-0228.30
 Expiration Date: 09/22/25
 Approval Date: 09/29/22
 Page 7 of 19

EVIDENCE SUBMITTED:**Test Agency/Identifier****Report****Name****Date**

GAF-349-02-01	TAS 110	07/03/12
GAF-369-02-01	ASTM C1289	10/23/12
GAF-411-02-01	ASTM C1289	05/02/13
GAF-412-02-01	ASTM C1289	05/02/13
GAF-417-02-01	ASTM C1289	05/28/13
GAF-434-02-01	TAS 117	09/16/13
GAF-421-02-01	ASTM D6878/TAS 131	10/23/13
GAF-422-02-01	ASTM D6878/TAS 131	10/29/13
GAF-424-02-01	ASTM D6878/TAS 131	11/11/13
GAF-425-02-01	ASTM D6878/TAS 131	11/11/13
GAF-462-02-01	ASTM D413	11/18/13
GAF-462-02-02	TAS 117(B)	11/18/13
GAF-435-02-01	TAS 117(B)	01/29/14
GAF-464-02-01	ASTM C1289	02/06/14
GAF-499-02-01	ASTM D6083	03/12/14
GAF-508-02-01	Various	03/12/14
GAF-515-02-01	FM 4470	05/13/14
GAF-516-02-01	FM 4470	05/13/14
GAF-516-02-03	FM 4470	05/13/14
GAF-516-02-02	FM 4470	06/06/14
GAF-462-02-09	FM 4470	07/01/14
GAF-462-02-10	FM 4470	07/01/14
GAF-462-02-11	FM 4470	07/01/14
GAF-559-02-01	TAS 117	10/16/14
GAF-559-02-04	ASTM D1876	03/04/15
GAF-559-02-11	TAS 114	10/16/14
GAF-559-02-12	TAS 114	10/16/14
GAF-559-02-13	TAS 114	10/16/14
GAF-559-02-16	TAS 114	10/16/14
GAF-559-02-18	TAS 114	10/16/14
GAF-567-02-01	ASTM D1876	01/23/15
GAF-580-02-01	ASTM C1289	07/23/15
GAF-581-02-01	ASTM C1289	07/23/15
GAF-584-02-01	ASTM D6878	12/07/15
GAF-585-02-01	ASTM D6878	12/07/15
GAF-586-02-01	ASTM D6878	12/07/15

APPROVED ASSEMBLIES:

Membrane Type:	Single Ply, TPO
Deck Type II:	Wood, Insulated
Deck Description:	Min. 15/32" thick plywood attached to structural wood supports spaced maximum 24" o.c. using 8d ring shank nails spaced 6" o.c. at panel edge and intermediate supports.
System Type B:	Base layer(s) of insulation mechanically attached to roof deck. Top layer of insulation is adhered. Membrane is subsequently fully adhered to top layer of 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 of any of the following.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL, H-Shield Minimum 2" thick	2, 3, 4, 8, 9, 10	1:2 ft²

Note: Base layer(s) shall be mechanically attached with fasteners and density described. 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).

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK® Gypsum-Fiber Roof Board Minimum 0.25" thick	N/A	N/A

Note: Apply top layer of insulation with Tremco CPG Low Rise Foam Insulation Adhesive (BG) or Tremco CPG Low Rise Foam Insulation Adhesive applied in 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layer(s) with a layer of approved top layer insulation installed as the final membrane substrate.

Membrane:	<p>TremPly TPO, TremPly Max TPO, TremPly TPO FB, TremPly Max TPO FB is adhered to the substrate as follows. Broom or roll the top surface of the membrane per manufacturer's installation instructions after adhering the membrane to the substrate to ensure complete bonding. Membrane side laps are minimum 3.0 in. wide and sealed with minimum 1.5 in. wide heat welds for automatic machine welding or with minimum 2.0 in. wide heat welds for hand welding.</p> <p>OR</p> <p>TremPly TPO or TremPly Max TPO adhered with TremPly Bonding Adhesive applied per manufacturer's installation instructions at a total rate of 1.67 gal./sq. One half of the adhesive is applied to the substrate and the other half is applied to the back of the roof cover and sealed with minimum 1.5 in. wide heat welds for automatic machine welding or with minimum 2.0 in. wide heat welds for hand welding.</p> <p>OR</p>
------------------	--



**Membrane:
(Continued)**

TremPly TPO or TremPly Max TPO adhered with TremPly TPO LV Bonding Adhesive applied per manufacturer's installation instructions at a total rate of 0.91 gal./sq. One half of the adhesive is applied to the substrate and the other half is applied to the back of the roof cover and sealed with minimum 1.5 in. wide heat welds for automatic machine welding or with minimum 2.0 in. wide heat welds for hand welding.

OR

TremPly TPO or TremPly Max TPO adhered with TremPly TPO WB Bonding Adhesive applied per manufacturer's installation instructions at a total rate of 0.83 gal./sq. Three quarters of the adhesive is applied to the substrate and one quarter of the adhesive is applied to the back of the roof cover and sealed with minimum 1.5 in. wide heat welds for automatic machine welding or with minimum 2.0 in. wide heat welds for hand welding.

OR

TremPly TPO or TremPly Max TPO adhered with Tremco CPG Low Rise Foam Insulation Adhesive (BG) or Tremco CPG Low Rise Foam Insulation Adhesive applied in 0.75 – 1.0 in. wide ribbons spaced 4 in. o.c. for full coverage and sealed with minimum 1.5 in. wide heat welds for automatic machine welding or with minimum 2.0 in. wide heat welds for hand welding.

**Maximum Design
Pressure:**

–52.50 psf. (See General Limitation #7)

Membrane Type: Single Ply, TPO

Deck Type II: Wood, Insulated

Deck Description: ¹⁹/₃₂" CDX Plywood nailed 6" o.c. at the field of the sheet with #8 ring shank nails and 6" o.c. at the perimeter of the sheet with #8 ring shank nails. Plywood installed over wood rafters spaced 24" o.c.

System Type C(1): 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.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK® Gypsum-Fiber Roof Board Minimum 1/4" thick	1 & 4	1:1.33 ft. ²

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: TremPly TPO FB or TremPly Max TPO FB is adhered to the SECUROCK® Gypsum-Fiber Roof Board in an approved asphalt applied within the EVT range and at a rate of 20-25 lbs./sq. with a 3" side lap and sealed with a 2" wide heat weld. Broom top surface of membrane to ensure complete bonding.

Maximum Design Pressure: -82.50 psf. (See General Limitation #7)



Membrane Type: Single Ply, TPO
Deck Type II: Wood, Insulated
Deck Description: Min. 15/32" thick plywood attached to structural wood supports spaced maximum 24" o.c. using 8d ring shank nails spaced 6" o.c. at panel edge and intermediate supports.
System Type C(2): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to stress plates used to fasten insulation layer.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Fire Barrier: DensDeck® Roof Board, SECUROCK® Gypsum-Fiber Roof Board, SECUROCK® Glass-Mat Roof Board, minimum 1/4" thick (see insulation note below for preliminary attachment details).
(Optional)

One or more layers of any of the following.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3, Structodek® High Density Fiberboard Roof Insulation, H-Shield HD Minimum 0.5" thick	2 and 12 or 13	1:2.67 ft ²
DensDeck® Roof Board, SECUROCK® Gypsum-Fiber Roof Board, SECUROCK® Glass-Mat Roof Board Minimum 0.25" thick	2 and 12 or 13	1:2.67 ft ²

Insulation Note: Insulation shall have preliminary attachment. Preliminarily attach insulation through the top layer and underlying layer(s), when present, with the RhinoBond® membrane stress plates applied as specified in the membrane section of this roofing system. See Roofing Application Standard RAS 117 for fastening details.

Membrane: TremPly TPO, TremPly Max TPO mechanically fastened using #14 Roofgrip and RhinoBond Insulation Plate (TPO & PVC) or RhinoBond TreadSafe Plate (TPO & PVC) applied at a rate of 12 fasteners per 48 x 96 in. board (2.67 ft² per fastener).

The membrane is bonded to stress plates using the RhinoBond® Portable Bonding Tool per manufacturer's installation instructions. 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 for automatic machine welding or a minimum 2" wide heat weld for hand welding.

* RhinoBond TreadSafe Plate (TPO & PVC) shall only be used with a minimum insulation thickness of 2" and require a 5/8" diameter pilot hole when used with gypsum or wood fiber top layer insulation.

Maximum Design Pressure: -52.50 psf. (See General Limitation #7)



Membrane Type: Single Ply, TPO
Deck Type II: Wood, Insulated
Deck Description: Min. 15/32" thick plywood attached to structural wood supports spaced maximum 24" o.c. using 8d ring shank nails spaced 6" o.c. at panel edge supports and 12" o.c. at panel intermediate supports.
System Type C(3): All layers of insulation are mechanically attached to roof deck supports. Membrane is subsequently adhered to stress plates used to fasten insulation layer.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Fire Barrier: DensDeck® Roof Board, SECUROCK® Gypsum-Fiber Roof Board, SECUROCK® Glass-Mat Roof Board, minimum 1/4" thick (see insulation note below for preliminary attachment details).
(Optional)

One or more layers of any of the following.

<u>Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
ISO 95+ GL, AC Foam-II, H-Shield, ENRGY 3, Structodek® High Density Fiberboard Roof Insulation, H-Shield HD Minimum 0.5" thick	2 and 12 or 13	See Below
DensDeck® Roof Board, SECUROCK® Gypsum-Fiber Roof Board, SECUROCK® Glass-Mat Roof Board Minimum 0.25" thick	2 and 12 or 13	See Below

Insulation Note: All insulation shall have preliminary attachment prior to the installation of the roofing membrane 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: TremPly TPO, TremPly Max TPO mechanically fastened using #14 Roofgrip and RhinoBond Insulation Plate (TPO & PVC) or RhinoBond TreadSafe Plate (TPO & PVC). Fasteners are driven through the plywood roof deck and into the structural wood supports as described in the fastening details below.

The membrane is bonded to stress plates using the RhinoBond® Portable Bonding Tool per manufacturer's installation instructions. 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 for automatic machine welding or a minimum 2" wide heat weld for hand welding.

* RhinoBond TreadSafe Plate (TPO & PVC) shall only be used with a minimum insulation thickness of 2" and require a 5/8" diameter pilot hole when used with gypsum or wood fiber top layer insulation.

Fastening #1: Fasteners are driven through the wood deck and into the structural wood supports in a maximum 24 x 36 in. grid.
Maximum Design Pressure: -52.5 psf. (See General Limitation #7)



Fastening #2: Fasteners are driven through the wood deck and into the structural wood supports in a maximum 24 x 24 in. grid.

Maximum Design Pressure: -75 psf. (See General Limitation #7)

Fastening #3: Fasteners are driven through the wood deck and into the structural wood supports in a maximum 18 x 24 in. grid.

Maximum Design Pressure: -82.5 psf. (See General Limitation #7)

**Maximum Design
Pressure:**

See fastening options above.



Membrane Type: Single Ply, TPO
Deck Type II: Wood, Insulated
Deck Description: ¹⁹/₃₂" or greater plywood secured 6 in. o.c. at panel end and intermediate supports to structural lumber joists spaced maximum 24 in. o.c using 8d ring shank nails or wood plank.
System Type D(1): All insulation is loose laid with preliminary attachment to roof deck. Membrane is subsequently mechanically fastened through insulation to the wood deck.

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 of any of the following.

<u>Base Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL, AC Foam-II, H-Shield, ENRGY 3, H-Shield HD Minimum 0.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck® Roof Board, SECUROCK® Gypsum-Fiber Roof Board, SECUROCK® Glass-Mat Roof Board Minimum 1/4" thick	N/A	N/A

Insulation Note: Insulation layer(s) above shall have preliminary attachment prior to the installation of the roofing membrane 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 Insulation panels shall be mechanically fastened along with the roof membrane as specified below. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: TremPly TPO, TremPly Max TPO or TremPly TPO FB is mechanically attached with #14 Roofgrip and OMG 2-3/8" Barbed XHD Plate or OMG Eyehook Accuseam Plate spaced 6" o.c. within fastener rows spaced maximum 114.5" o.c. The minimum 5" wide side laps are sealed with minimum 1 3/4" wide heat welds for automatic machine welding and with minimum 2" wide welds for hand welding.

Maximum Design Pressure: -45.00 psf. (See General Limitation #7)



Membrane Type: Single Ply, TPO
Deck Type II: Wood, Insulated
Deck Description: ¹⁹/₃₂" or greater plywood attached to structural wood supports spaced maximum 24" o.c. using 8d common nails spaced 6" o.c. at all panel edges and intermediary supports.
System Type D(2): All insulation is loose laid with preliminary attachment to wood deck. Membrane is subsequently mechanically fastened through insulation to the wood deck.

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.

Fire Barrier: DensDeck® Roof Board, SECUROCK® Gypsum-Fiber Roof Board, SECUROCK® Glass-Mat Roof Board, minimum ¼" thick (see insulation note below for preliminary attachment details).
(Optional)

One or more layers of any of the following.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3 Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck® Roof Board, SECUROCK® Gypsum-Fiber Roof Board SECUROCK® Glass-Mat Roof Board Minimum 0.25" thick	N/A	N/A
H-Shield HD Minimum 0.5" thick	N/A	N/A

Insulation Note: All insulation shall have preliminary attachment prior to the installation of the roofing membrane 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: TremPly TPO, TremPly Max TPO or TremPly TPO FB mechanically fastened using #14 Roofgrip and OMG 2-3/8" Barbed XHD Plate or OMG Eyehook Accuseam Plate spaced 6" o.c. in rows spaced 55" o.c. The outside 1.75" of the 5" lap is heat welded and the fasteners are centered within the remaining 3.25" lap area.

Maximum Design Pressure: -52.50 psf. (See General Limitation #7)

Membrane Type: Single Ply, TPO
Deck Type II: Wood, Insulated
Deck Description: Min. 19/32" thick plywood attached to structural wood supports spaced maximum 24" o.c. using 8d ring shank nails spaced 4" o.c. at panel end and intermediate supports.
System Type D(3): All insulation is loose laid with preliminary attachment to roof deck. Membrane is subsequently mechanically fastened through insulation to wood deck.

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.

Fire Barrier: DensDeck® Roof Board, SECUROCK® Gypsum-Fiber Roof Board, SECUROCK® Glass-Mat Roof Board, minimum ¼" thick (see insulation note below for preliminary attachment details).
(Optional)

One or more layers of any of the following.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ISO 95+ GL, ACFoam-II, H-Shield, ENRGY 3, H-Shield HD Minimum 0.5" thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck® Roof Board, SECUROCK® Gypsum-Fiber Roof Board, SECUROCK® Glass-Mat Roof Board Minimum 0.25" thick	N/A	N/A

Insulation Note: All insulation shall have preliminary attachment prior to the installation of the roofing membrane 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Membrane: TremPly TPO or TremPly Max TPO mechanically fastened using #14 Roofgrip and OMG 2-3/8" Barbed XHD Plate or OMG Eyehook Accuseam Plate spaced maximum 8" o.c. in fastener rows spaced maximum 55" o.c. The minimum 5" wide side laps are sealed with minimum 1.5" wide heat welds for automatic machine welding or with minimum 2" welds for hand welding.

Maximum Design Pressure: -45.00 psf. (See General Limitation #7)

Membrane Type: Single Ply, TPO
Deck Type 1: Wood, Non-Insulated
Deck Description: Min. 15/32" thick plywood attached to structural wood supports spaced maximum 24" o.c. using 8d ring shank nails spaced 6" o.c. at panel end supports and 12" o.c. along panel intermediate supports.
System Type E(1): Membrane adhered to stress plates which are mechanically attached to structural wood supports.

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.

Membrane: TremPly TPO or TremPly Max TPO mechanically fastened using #14 Roofgrip and RhinoBond Insulation Plate (TPO & PVC). Fasteners are driven through the plywood roof deck and into the structural wood supports as described in the fastening details below.

The roof cover is bonded to stress plates using the RhinoBond® Portable Bonding Tool per manufacturer's installation instructions. 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.

Fastening #1: Fasteners are driven through the wood deck and into the structural wood supports in a maximum 24 x 36 in. grid.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)

Fastening #2: Fasteners are driven through the wood deck and into the structural wood supports in a maximum 24 x 24 in. grid.

Maximum Design Pressure: -75 psf. (See General Limitation #7)

Fastening #3: Fasteners are driven through the wood deck and into the structural wood supports in a maximum 18 x 24 in. grid.

Maximum Design Pressure: -82.5 psf. (See General Limitation #7)

Maximum Design Pressure: See fastening options above.



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

