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)

Tremco, 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 Poured Gypsum 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 14.
The submitted documentation was reviewed by Hamley Pacheco, P.E.

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply Roofing
Material:	TPO
Deck Type:	Poured Gypsum
Maximum Design Pressure:	-502.5 psf.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product Name	Dimensions	Test Specification	Product Description
TremPly TPO	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced single-ply membrane.
TremPly Max TPO	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced single-ply membrane designed for advanced protection against heat aging and UV degradation.
TremPly TPO FB	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced, fleece back single-ply membrane.
TremPly Max TPO FB	Various	ASTM D6878 TAS 131	Thermoplastic olefin reinforced fleece back single-ply membrane designed for advanced protection against heat aging and UV degradation.
TremPly TPO Cover Tape	6" x 100′ 10" x 100′	Proprietary	Tremco TPO laminated to white butyl tape primarily used for edge metal details.
TremPly TPO Cover Tape Heat-Welded	6" x 100′	Proprietary	Flashing strip manufactured from unreinforced Tremco 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.
TremPly Max TPO Cover Tape Heat-Welded	6" x 100′	Proprietary	Flashing strip manufactured from unreinforced Tremco 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.
TremPly TPO Detailing Membrane	24" x 50'	Proprietary	Unreinforced flashing material manufactured from Tremco TPO.

Product Name	Dimensions	Test Specification	Product Description
TremPly Max TPO Detailing Membrane	24" x 50'	Proprietary	Unreinforced flashing material manufactured from Tremco TPO designed for advanced protection against heat aging and UV degradation.
TremPly TPO Flashing Strip	Various	Proprietary	Reinforced flashing membrane manufactured from Tremco TPO.
TremPly Max TPO Flashing Strip	Various	Proprietary	Reinforced flashing membrane manufactured from Tremco TPO designed for advanced protection against heat aging and UV degradation.
TremPly TPO Pourable Sealer Pocket	9" x 6" x 4" oval with 3" base flange	Proprietary	Pourable sealer pocket is molded with Tremco TPO compound to a nominal 70 mil thickness designed for waterproofing irregular shaped roof penetrations.
TremPly Max TPO Pourable Sealer Pocket	9" x 6" x 4" oval with 3" base flange	Proprietary	Pourable sealer pocket is molded from Tremco 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.
TremPly TPO RTA (Roof Transition Anchor) Strip™	6" x 100′ roll	Proprietary	Reinforced Tremco TPO membrane with pressure sensitive adhesive primarily used to secure membrane transitions from the field to vertical surfaces.
TremPly TPO Split Pipe Boot	1”- 2” 3” - 5” 6” - 8”	Proprietary	Reinforced Tremco 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 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 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 TPO designed for advanced protection against heat aging and UV degradation with split design overlap to be wrapped around square or rectangular tubing.

Product Name	Dimensions	Test Specification	Product Description
TremPly TPO Corner Curb Wrap	Various	Proprietary	Corners fabricated from reinforced Tremco TPO.
TremPly Max TPO Corner Curb Wrap	Various	Proprietary	Corners fabricated from reinforced Tremco TPO designed for advanced protection against heat aging and UV degradation.
TremPly TPO T-Joint Cover Patch	100 patches per box	Proprietary	T-Joint patch manufactured from unreinforced Tremco TPO.
TremPly Max TPO T-Joint Cover Patch	100 patches per box	Proprietary	T- Joint patch manufactured from unreinforced Tremco TPO designed for advanced protection against heat aging and UV degradation.
TremPly TPO Walkway Rolls	Rolls 1/8” x 30” x 50’	Proprietary	Standard duty TPO walkway rolls.
TremPly TPO Inside Corner	6" x 6" x 5¼"	Proprietary	Inside corner manufactured from unreinforced Tremco TPO.
TremPly Max TPO Inside Corner	6" x 6" x 5¼"	Proprietary	Inside corner manufactured from unreinforced Tremco TPO designed for advanced protection against heat aging and UV degradation.
TremPly TPO Universal Corners	Various	Proprietary	Universal corners manufactured from Tremco TPO that are heat seamable and designed to accommodate both inside and outside corners of base and curb flashings.
TremPly Max TPO Universal Corners	Various	Proprietary	Universal corners manufactured from Tremco 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.
TremPly TPO Vent Boot	1" - 6" o.d. 6 pcs. Crtn.	Proprietary	Vent pipe boot molded from Tremco TPO and supplied with stainless steel clamping rings.
TremPly Max TPO Vent Boot	1" - 6" o.d. 6 pcs. Crtn.	Proprietary	Vent pipe boot molded from Tremco TPO designed for advanced protection against heat aging and UV degradation and supplied with stainless steel clamping rings.
TremPly TPO Expansion Joint Cover	Various	Proprietary	Low profile joint cover manufactured from reinforced Tremco TPO.

Product Name	Dimensions	Test Specification	Product Description
TremPly TPO Cut Edge Sealant	1 quart squeeze tube	Proprietary	Clear solvent based sealant for TPO cut edges.
TremPly Cut Edge Sealant LV	1 quart squeeze tube	Proprietary	Low VOC clear solvent based sealant for TPO cut edges.
TremPly TPO Drain	Various	Proprietary	Spun aluminum drain preflashed with unreinforced Tremco TPO.
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 TPO.
TremPly Max TPO Fluted Corner	8" diameter nominal .05" non-reinforced	Proprietary	Flashing for outside corners of base and curb flashing manufactured from non-reinforced Tremco TPO designed for advanced protection against heat aging and UV degradation.
TremPly TPO Seam Cleaner	1 gallon	Proprietary	Solvent based seam cleaner.
TremPly Bonding Adhesive	5 gallons	Proprietary	Solvent based adhesive for fully adhered TPO systems and membrane flashing.
TremPly TPO LV Bonding Adhesive	5 gallons	Proprietary	Low VOC adhesive for TPO fully adhered systems and flashings.
Tremco Low Rise Foam Insulation Adhesive (BG) or Tremco LR Adhesive	1:1 applicator	Proprietary	Two-part VOC free polyurethane foam adhesive.
Tremco Low Rise Foam Insulation Adhesive	1:1 applicator	Proprietary	Two-part VOC free polyurethane foam adhesive.
TremPly TPO LV Bonding Adhesive	5 gallons	Proprietary	Water-based bonding adhesive for use with smooth TPO, fleece backed TPO and fleece backed PVC membranes.
TremPly TPO Primer	1 gallon	Proprietary	Solvent-based VOC compliant TPO primer.
TremPly LV TPO Primer	1 gallon	Proprietary	Low VOC TPO primer

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ENGRY 3	Polyisocyanurate foam insulation	Johns Manville Corp.
Structodek® High Density Fiberboard Roof Insulation	High-density fiberboard	Blue Ridge FiberBoard, Inc.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	N/A	N/A	N/A	N/A

EVIDENCE SUBMITTED:

Test Agency/Identifier	Report	Name	Date
UL LLC	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
IRT-ARCON, Inc.	02-011	TAS 114	02/26/02
	02-015	TAS 114	03/26/02
	04-005	TAS 114	03/19/04
	04-019	TAS 114	05/14/04
Exterior Research & Design, LLC	01881.11.03-2	TAS 114	11/26/03
	C8500SC.11.07	ASTM D6862	11/30/07
Factory Mutual Research Corp.	3020681	FM 4470	09/01/05
	3032856	FM 4470	11/24/08
	3036141	FM 4470	08/10/09
	3036141	FM 4470	08/10/09
	3038318	FM 4470	12/10/10
	3041685	FM 4470	03/24/11
	3041769	FM 4470	05/26/11
Atlantic & Caribbean Roof Consulting, LLC	08-032	TAS 114-D	05/19/08
	11-009	TAS 114-D	03/23/11
	11-010	TAS 114-D	03/23/11
	11-019	TAS 114-D	04/08/11
	11-020	TAS 114-D	04/08/11
	11-021	TAS 114-D	04/11/11
PRI Construction Materials	GAF-122-02-01	TAS 139	05/09/06
	GAF-306-02-01	ASTM E96	08/23/11
Technologies LLC	GAF-289-02-01	ASTM D6878/ TAS 131	09/07/11
	GAF-290-02-01	ASTM D6878/ TAS 131	09/21/11
	GAF-369-02-01	ASTM C1289	10/23/12
	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-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-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 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(1): Insulation adhered to the deck, membrane 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 of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Structodek® High Density Fiberboard Roof Insulation Minimum 0.5" thick	**N/A**	**N/A**

Note: Insulation shall be adhered to the substrate in ¾" to 1" wide beads 12" o.c. of OlyBond 500® or OlyBond 500® Green Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: TremPly TPO or TremPly Max TPO is fully adhered to insulation using TremPly Bonding Adhesive applied at a total rate of 1.67 gal./sq. Apply half the adhesive to the underside of the membrane and half to the insulation. The membrane is broomed in after placement. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" in width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Or

One ply of TremPly TPO or TremPly Max TPO adhered to Structodek® High Density Fiberboard Roof Insulation with TremPly TPO LV Bonding Adhesive applied at a total rate of 0.91 gal/sq. Apply half the adhesive to underside of the membrane and half to the insulation. The membrane is broomed in after placement. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" width for had welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Maximum Design Pressure: -215 psf. (See General Limitation #9.)

Membrane Type: Single Ply, TPO

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(2): Insulation is adhered to deck; membrane is 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.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ISO 95+ GL, ACFoam-II, ENGRY 3 Minimum 1" thick	**N/A**	**N/A**

Note: Insulation shall be adhered to the substrate in OlyBond 500® or OlyBond 500® Green Adhesive applied in 1" wide beads 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: One ply of TremPly TPO or TremPly Max TPO adhered to insulation with TremPly Bonding Adhesive applied at a total rate of 1.67 gal./sq. Apply half the adhesive to the underside of the membrane and half to the insulation. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.
Or
One ply of TremPly TPO or TremPly Max TPO adhered to insulation with TremPly TPO LV Bonding Adhesive applied at a total rate of 0.91 gal/sq. Apply half the adhesive to the underside of the membrane and half to the insulation. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Maximum Design Pressure: -387.5 psf. (See General Limitation #9.)

Membrane Type: Single Ply, TPO

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(3): Insulation is adhered to deck; membrane is 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.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ACFoam-II Minimum 1" thick	**N/A**	**N/A**

Note: Insulation shall be adhered to the substrate in OlyBond 500® or OlyBond 500® Green Adhesive applied in 1" wide beads 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: One ply of TremPly TPO or TremPly Max TPO is fully adhered to insulation. TremPly TPO LV Bonding Adhesive applied at a total rate of 0.84 gal./sq. Apply the adhesive to the underside of the membrane and to the insulation. The adhesive needs to become tacky to the touch before the roof cover is applied to the insulation. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Maximum Design Pressure: -210 psf. (See General Limitation #9.)

Membrane Type: Single Ply, TPO

Deck Type 6: Poured Gypsum, Non-insulated

Deck Description: Poured Gypsum Concrete

System Type F(1): Membrane is adhered to 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.

Membrane: One ply of TremPly TPO FB or TremPly Max TPO FB adhered with Tremco Low Rise Foam Insulation Adhesive applied in 1" wide beads spaced 6" o.c. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Maximum Design Pressure: -295 psf. (See General Limitation #9.)

Membrane Type: Single Ply, TPO

Deck Type 6: Poured Gypsum, Non-insulated

Deck Description: Poured Gypsum Concrete

System Type F(2): Membrane is adhered to 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.

Membrane: One ply of TremPly TPO FB or TremPly Max TPO FB adhered with Tremco Low Rise Foam Insulation Adhesive (BG) or Tremco LR Adhesive applied in 1" wide beads spaced 6" o.c. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Maximum Design Pressure: -502.5 psf. (See General Limitation #9.)

Membrane Type: Single Ply, TPO

Deck Type 6: Poured Gypsum, Non-insulated

Deck Description: Poured Gypsum Concrete

System Type F(3): Membrane is adhered to 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.

Membrane: One ply of TremPly TPO FB or TremPly Max TPO FB is fully adhered to the deck with TremPly TPO LV Bonding Adhesive applied to the substrate at a total rate of 0.84 gal./sq. The membrane is applied into the wet adhesive then rolled with a water filled roller weighing a minimum of 250 lbs. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

Maximum Design Pressure: -90 psf. (See General Limitation #9.)

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