



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

## NOTICE OF ACCEPTANCE (NOA)

**MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION**

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[www.miamidade.gov/economy](http://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 System Over Lightweight Concrete Decks.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA-No. 19-0204.04 and consists of pages 1 through 21.  
The submitted documentation was reviewed by Alex Tigera.



**NOA-No.: 22-0228.29**  
**Expiration Date: 04/16/24**  
**Approval Date: 09/29/22**  
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## ROOFING SYSTEM APPROVAL

**Category:** Roofing  
**Sub-Category:** Single Ply Roofing  
**Material:** TPO  
**Deck Type:** Lightweight Concrete  
**Maximum Design Pressure:** -300.00 psf.

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

TABLE 1

<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
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 Detailing Membrane	24" x 50'	Proprietary	Unreinforced flashing material manufactured from Tremco CPG TPO.
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 Max TPO Flashing Strip	Various	Proprietary	Reinforced flashing membrane manufactured from Tremco CPG 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 CPG TPO compound to a nominal 70 mil thickness designed for waterproofing irregular shaped roof penetrations.



NOA-No.: 22-0228.29  
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# 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 Pourable Sealer Pocket	9" X 6" X 4" Oval With 3" Base Flange	Proprietary	Pourable sealer pocket is molded from Tremco CPG 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 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-Join Cover Patch	100 Patches Per Box	Proprietary	T-Joint patch manufactured from unreinforced Tremco CPG TPO.
TremPly Max TPO T-Joint Cover Patch	100 Patches Per Box	Proprietary	T- Joint patch manufactured from unreinforced Tremco CPG TPO designed for advanced protection against heat aging and UV degradation.
TremPly TPO Vent Boot	2 Vents Per Carton	Proprietary	Vent manufactured from reinforced Tremco CPG TPO membrane and galvanized steel.
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 Inside Corner	6" x 6" x 5¼"	Proprietary	Inside corner manufactured from unreinforced Tremco CPG TPO.
TremPly Max TPO Inside Corner	6" x 6" x 5¼"	Proprietary	Inside corner manufactured from unreinforced Tremco CPG TPO designed for advanced protection against heat aging and UV degradation.
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 Max 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 designed for advanced protection against heat aging and UV degradation.
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 Max TPO Vent Boot	1" - 6" o.d. 6 pcs. Crtn.	Proprietary	Vent pipe boot molded from Tremco CPG 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 CPG TPO.
TremPly TPO Cut Edge Sealant	1 Quart Squeeze Tube	Proprietary	Clear solvent based sealant for TPO cut edges.
TremPly TPO Drain	Various	Proprietary	Spun aluminum drain pre-flashed with non-reinforced Tremco CPG TPO.
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.



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

<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
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 CPG TPO designed for advanced protection against heat aging and UV degradation.

**APPROVED FASTENERS:****TABLE 3**

<b><u>Fastener Number</u></b>	<b><u>Product Name</u></b>	<b><u>Product Description</u></b>	<b><u>Dimensions</u></b>	<b><u>Manufacturer (With Current NOA)</u></b>
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.	OMG Heavy Duty	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.	OMG XHD	Truss head, self-drilling, pinch point, high thread fastener for use in wood or steel decks.	#15 x 16" Max. Length, #3 Phillips Head	OMG, Inc.
4.	OMG 2-3/8" Barbed XHD Plate	Round galvanized steel stress plates for use with OMG fasteners.	2-3/8" Round	OMG, Inc.
5.	OMG 2" Barbed Plate	Round galvanized steel stress plates for use with OMG fasteners.	2" Round	OMG, Inc.
6.	OMG 2-3/4" Super XHD Barbed Plate	Round galvanized steel stress plates for use with OMG fasteners.	2-3/4" Round	OMG, Inc.
7.	OMG Super XHD	Truss head, self-drilling, drill point, high thread fastener for use in steel decks.	#21 x 16" Max. Length, #3 Phillips Head	OMG, Inc.
8.	AccuTrac Flat Bottom	A2-SS aluminized steel plate for use with OMG fasteners.	3" Square; .017" Thick	OMG, Inc.

**APPROVED FASTENERS:****TABLE 3**

<b><u>Fastener Number</u></b>	<b><u>Product Name</u></b>	<b><u>Product Description</u></b>	<b><u>Dimensions</u></b>	<b><u>Manufacturer (With Current NOA)</u></b>
9.	AccuTrac Plate	Galvalume® steel plate with recess for use with OMG fasteners.	3" Square; .017" Thick	OMG, Inc.
10.	ASAP RoofGrip Pre-Assembled System	#12 Standard Roofgrip with 3 in. Round Metal Plate.	See Components	OMG, Inc.
11.	RhinoBond TPO SXHD Plate	Gold primer coated plate for use with TPO membranes.	3" Round	OMG, Inc.
12.	RhinoBond Insulation Plate (TPO)	Gold primer coated plate for use with TPO membranes.	3" Round	OMG, Inc.
13.	3 in. Ribbed Galvalume Plate	Round Galvalume® steel stress plate with reinforcing ribs and recessed for use with OMG fasteners.	3" Round	OMG, Inc.
14.	3 in. Round Metal Plate	Galvalume® coated steel stress plate for use with approved OMG fasteners.	3" Round	OMG, Inc.
15.	OMG Eyehook Accuseam Plates	Round Galvalume® steel plate for use with OMG fasteners.	2-3/8" Round	OMG, Inc.
16.	3 in. Ribbed Galvalume Plate (Flat)	Round Galvalume® plated steel stress plate with reinforcing ribs for use with OMG fasteners.	3" Round	OMG, Inc.
17.	RhinoBond (Retro) Driller	Hex head, ¾ in. drill point fastener used to attach single-ply to structural steel purlins.	4" - 10" Max. Length, With #3 Square Head	OMG, Inc.
18.	CR Assembled Base Sheet Fastener (1.7")	G-90 galvanized fastener with plate for base sheet attachment to gypsum decks and lightweight insulating concrete decks. Coated with CR-10 fluorocarbon coating.	1.125" head x 1.75" length. 2.75" Galvalume steel stress plate.	OMG, Inc.
19.	Trufast FM-90 Base Sheet Fastener	G-90 galvanized fastener with plate for base sheet attachment to gypsum decks and lightweight insulating concrete decks. Coated with CR-10 fluorocarbon coating.	1.125" head x 1.75" Length. 2.75" Galvalume steel stress plate.	Altenloh, Brinck & Co. U.S., Inc.



## APPROVED FASTENERS:

**TABLE 3**

<b><u>Fastener Number</u></b>	<b><u>Product Name</u></b>	<b><u>Product Description</u></b>	<b><u>Dimensions</u></b>	<b><u>Manufacturer (With Current NOA)</u></b>
20.	Trufast Twin Loc-Nail Assembled Fastener	Preassembled fastener/plate unit for base ply and insulation attachment to cementitious wood fiber, poured gypsum and lightweight insulating concrete decks.	Various	Altenloh, Brinck & Co. U.S., Inc.



**EVIDENCE SUBMITTED:**

<u>Test Agency</u>	<u>Test Name</u>	<u>Report Identifier</u>	<u>Date</u>
FM Approvals	4470	3003617	12/20/99
	4470	3015578	05/12/04
	4470	3038318	12/10/10
	4470	3041535	06/08/11
	4470	3047636	08/08/13
	4470	3058483	12/09/16
	4470	3060615	01/23/17
	4470	FM Letter	09/02/10
	4470	FM Letter	05/21/13
	4470	797-07744-267	10/17/12
UL LLC	UL 790	R10689	06/08/18
	UL 790	R1306	03/11/19
	Physical Properties	09CA55838	12/04/10
Atlantic & Caribbean Roof Consulting, LLC	TAS 114-D	11-067	11/21/11
	TAS 114-J	15-028	12/01/15
	TAS 114-J	16-002	03/04/16
PRI Construction Materials Technologies, LLC	ASTM D6083	GAF-084-02-01	05/07/06
	TAS 139	GAF-122-02-01	05/09/06
	ASTM D6083	GAF-245-02-01	06/10/10
	ASTM D6083	GAF-276-02-0-R1	01/03/11
	ASTM D2178	GAF-314-02-01	08/23/11
	ASTM D2178	GAF-315-02-01	08/23/11
	ASTM C1289	GAF-369-02-01	10/22/12
	ASTM C1289	GAF-411-20-01	04/30/13
	ASTM C1289	GAF-412-02-01	04/30/13
	ASTM C1289	GAF-417-02-01	05/27/13
	ASTM D6878	GAF 421-02-01	10/22/13
	ASTM D6878	GAF 422-02-01	10/29/13
	ASTM D6878	GAF 424-02-01	11/11/13
	ASTM D6878	GAF 425-02-01	11/11/13
	TAS 114-H	GAF 457-02-02	01/20/14
	TAS 114-D	GAF 457-02-08	01/24/14
	TAS 114-D	GAF 457-02-07	01/24/14
	TAS 114-J	GAF 457-02-04	01/24/14
	TAS 114-D	GAF 457-02-06	01/24/14
	ASTM C1289	GAF-464-02-01	02/05/14
	ASTM D6083	GAF 499-02-01	03/12/14
	Physical Properties	GAF-508-02-01	03/12/14
	TAS 114-J	GAF-538-02-03	08/12/14
	ASTM D6878	GAF-584-02-01	12/07/15
	ASTM D6878	GAF-585-02-01	12/07/15
	ASTM D6878	GAF-586-02-01	12/07/15
	TAS 139	GAF-671-02-01	06/30/16
	ASTM C1289	GAF-629-02-01	02/29/16
	ASTM C1289	GAF-704-02-01	09/22/16



**EVIDENCE SUBMITTED:**

<u>Test Agency</u>	<u>Test Name</u>	<u>Report Identifier</u>	<u>Date</u>
PRI Construction Materials Technologies, LLC	ASTM C1289	GAF-706-02-01	09/22/16
	ASTM C1289	GAF-707-02-01	09/22/16
	ASTM C1289	GAF-714-02-01	11/09/16
	ASTM C1289	GAF-769-02-01	03/21/18
	ASTM C1289	GAF-786-02-01	10/30/17
	ASTM D6878	GAF-870-02-01	02/15/19
Trinity   ERD	ASTM D6164	G31360.03.10	03/31/10
	ASTM D6163	G34140.04.11-2	04/25/11
	ASTM D4601	G34140.04.11-4	04/25/11
	ASTM D4897	G34140.04.11-5-R1	10/18/13
	ASTM D6163	G40630.01.14-1	01/06/14
	ASTM D6164	G40630.01.14-2A	01/07/14
	ASTM D1897 / TAS 105	GAF-SC8580.01.16-6	01/20/16
	TAS 114-J	GAF-SC8580.03.16-5-R2	08/29/16
	TAS 114-D / TAS 114-J	GAF-SC8580.11.15-2	11/18/15
	TAS 114-J	GAF-SC8580.11.15-4	11/09/15
NEMO   etc.	ASTM D6163	4q-GAF-19-SSMBB-02.A	04/08/19

**DECK STRESS ANALYSIS CALCULATIONS/REPORTS**

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies</u>	<u>Date</u>
Randall Fowler, P.E.	ACRC 15-028	E(1)	02/17/16
Robert Nieminen, P.E.	GAF-SC8580.03.16-5-R2	E(2), E(3)	08/29/16
Duc T. Nguyen, P.E.	GAF-457-02-04	F(1)	10/27/16
Robert Nieminen, P.E.	GAF-SC8580.11.15-2	F(7)	11/18/15

## **APPROVED ASSEMBLIES:**

**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** A minimum 2" thick pour of Generic Lightweight Concrete, minimum 210 psi, is poured over the structural deck per manufacturer's instructions.\* Structural deck should record a Minimum Characteristic Resistance Force (MCRF) of 405 lbf when tested with OMG XHD fasteners through the LWC into the steel deck or OMG Heavy Duty fasteners through the LWC into the structural concrete deck in accordance with TAS 105. \*Lightweight concrete should record a Minimum Characteristic Resistance Force (MCRF) of 97 lbf when tested with CR Assembled Base Sheet Fasteners (1.7") or Trufast FM-90 Base Sheet Fasteners in the LWC in accordance with TAS 105.

**System Type E(1):** Membrane is mechanically fastened through LWC to the structural deck.

**Deck:** Minimum 22 ga. type BV, G-90 steel meeting ASTM A653 with minimum 33 ksi yield strength at 72" spans, attached with 5/8" puddle welds spaced 6" o.c. Side laps are attached with #12-24 x 7/8" HWH spaced 18" o.c.

Or

Structural Concrete.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**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, TremPly Max TPO, TremPly TPO FB or TremPly Max TPO FB is mechanically attached with OMG XHD fasteners or OMG Heavy Duty fasteners (to be used when fastening into structural concrete only) and OMG 2" Barbed Plates, OMG 2-3/8" Barbed XHD Plates or OMG Eyehook Accuseam Plates spaced 12" o.c. within 6" wide side laps with rows spaced 54" o.c.; sealed with a 1.5 in. wide heat weld.

**Maximum Design**

**Pressure:** -45 psf (See General Limitation #7)



**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** Generic Lightweight Concrete, minimum 180 psi, is poured over the steel deck per manufacturer's instructions. \*Structural deck should record a Minimum Characteristic Resistance Force (MCRF) of 608 lbf when tested with OMG XHD fasteners through the LWC into the steel or OMG Heavy Duty fasteners through the LWC into the structural concrete in accordance with TAS 105.  
\*Lightweight concrete should record a Minimum Characteristic Resistance Force (MCRF) of 97 lbf when tested with CR Assembled Base Sheet Fasteners (1.7") or Trufast FM-90 Base Sheet Fasteners in accordance with TAS 105.

**System Type E(2):** Membrane is mechanically fastened through LWC to the structural deck.

**Deck:** Minimum 22 ga. type BV, G-90 steel meeting ASTM A653 with minimum 49 ksi yield strength at 72" spans, attached with 5/8" puddle welds spaced 6" o.c. Side laps are attached with #12-24 x 7/8" HWH spaced 18" o.c.  
Or  
Structural Concrete  
**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**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, TremPly Max TPO, TremPly TPO FB or TremPly Max TPO FB is mechanically attached with OMG XHD fasteners or OMG Heavy Duty fasteners (to be used when fastening into structural concrete only) and OMG 2-3/4" Super XHD Barbed Plates spaced 12" o.c. within 6" wide side laps with rows spaced 54" o.c.; sealed with a 1.5 in. wide heat weld.

**Maximum Design Pressure:** -67.50 psf (See General Limitation #7)



**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** Mearlcrete Cellular Lightweight Insulated Concrete over Steel

**System Type F(1):** Membrane adhered to roof deck.

**Lightweight Concrete:** The deck is filled with a slurry coat of Mearlcrete Cellular Lightweight Concrete, minimum 297 psi, to a depth of 1/8" above the top deck rib. EPS Holey Board with 3" diameter holes is placed into the slurry, followed by a minimum 2" thick pour of Mearlcrete Cellular Lightweight concrete, minimum 297 psi.

**Steel Deck:** Minimum 22 ga. 33 ksi, Type BV, G-90, at 6' span, 5/8" puddle welds at 6" o.c. along structural supports. Deck side laps secured at 18" o.c. with #12-14 x 7/8 HWH.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**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 to lightweight insulating concrete using TremPly WB Bonding Adhesive applied at 120 ft<sup>2</sup>/gal. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

Or

One ply of TremPly TPO FB or TremPly Max TPO FB adhered to lightweight insulating concrete using Tremco CPG Low Rise Foam Insulation Adhesive, Tremco CPG Low Rise Foam Insulation Adhesive (BG) or Tremco CPG LR Adhesive applied in 0.75" ribbons 4" o.c. for full coverage. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

**Maximum Design Pressure:**

-52.50 psf (See General Limitation #9)



**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** Mearlcrete Cellular Lightweight Concrete over Structural Concrete

**System Type F(2):** Membrane adhered to roof deck.

**Lightweight Concrete:** A 1/8" thick slurry of Mearlcrete Cellular Lightweight Concrete, minimum 297 psi, is poured over structural concrete deck. EPS Holey Board with 3" diameter holes is placed into the slurry, followed by a minimum 2" thick pour of Mearlcrete Cellular Lightweight concrete, minimum 297 psi.

**Concrete Deck:** Minimum 2500 psi structural concrete.

**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 to lightweight insulating concrete using TremPly WB Bonding Adhesive applied at 120 ft<sup>2</sup>/gal. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.  
Or  
One ply of TremPly TPO FB or TremPly Max TPO FB adhered to lightweight insulating concrete using Tremco CPG Low Rise Foam Insulation Adhesive, Tremco CPG Low Rise Foam Insulation Adhesive (BG) or Tremco CPG LR Adhesive applied in 0.75" ribbons 4" o.c. for full coverage. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

**Maximum Design Pressure:** -205.00 psf (See General Limitation #9)



**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** Elastizell Cellular Lightweight Concrete over Structural Concrete.

**System Type F(3):** Membrane adhered to roof deck.

**Lightweight Concrete:** A 1/8" thick slurry of Elastizell Cellular Lightweight Concrete, minimum 222 psi, is poured over structural concrete deck. EPS Holey Board with 3" diameter holes is placed into the slurry, followed by a minimum 2" thick pour of Elastizell Cellular Lightweight Concrete, minimum 222 psi.

**Concrete Deck:** Minimum 2500 psi structural concrete.

**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 to lightweight insulating concrete using TremPly WB Bonding Adhesive applied at 120 ft<sup>2</sup>/gal. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.  
Or  
One ply of TremPly TPO FB or TremPly Max TPO FB adhered to lightweight insulating concrete using Tremco CPG Low Rise Foam Insulation Adhesive, Tremco CPG Low Rise Foam Insulation Adhesive (BG) or Tremco CPG LR Adhesive applied in 0.75" ribbons 4" o.c. for full coverage. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

**Maximum Design Pressure:** -200.00 psf (See General Limitation #9)



**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** Elastizell Lightweight Concrete over Structural Concrete.

**System Type F(4):** Membrane adhered to roof deck.

**Lightweight Concrete:** A 1/8" thick slurry of Elastizell Cellular Lightweight Concrete, minimum 300 psi, is poured over structural concrete deck. **(Optional)** EPS Holey Board with 3" diameter holes is placed into the slurry, followed by a minimum 2" thick pour of Elastizell Cellular Lightweight Concrete, minimum 300 psi.

**Concrete Deck:** Minimum 3000 psi structural concrete.

**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 to lightweight insulating concrete using Tremco CPG Low Rise Foam Insulation Adhesive, Tremco CPG Low Rise Foam Insulation Adhesive (BG) or Tremco CPG LR Adhesive applied to the substrate in 3/4" wide ribbons spaced 6" o.c. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.  
Or  
One ply of TremPly TPO FB or TremPly Max TPO FB adhered to lightweight insulating concrete using TremPly WB Bonding Adhesive applied at 120 ft<sup>2</sup>/gal. in accordance with manufacturer's instructions. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

**Maximum Design**

**Pressure:** -75.00 psf (See General Limitation #9)



**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** Concrecel Cellular Lightweight Concrete over Structural Concrete.

**System Type F(5):** Membrane adhered to roof deck.

**Lightweight Concrete:** A 1/8" thick slurry of Concrecel Cellular Lightweight Concrete, minimum 200 psi, is poured over structural concrete deck. EPS Holey Board with 3" diameter holes is placed into the slurry, followed by a minimum 2" thick pour of Concrecel Cellular Lightweight Concrete, minimum 200 psi.

**Concrete Deck:** Minimum 2500 psi structural concrete.

**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 to lightweight insulating concrete using TremPly WB Bonding Adhesive applied at 120 ft<sup>2</sup>/gal. in accordance with manufacturer's instructions. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

Or

One ply of TremPly TPO FB or TremPly Max TPO FB adhered to lightweight insulating concrete using Tremco CPG Low Rise Foam Insulation Adhesive, Tremco CPG Low Rise Foam Insulation Adhesive (BG) or Tremco CPG LR Adhesive applied in 0.75" ribbons 4" o.c. for full coverage. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

**Maximum Design Pressure:** -225.00 psf (See General Limitation #9)





**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** Celcore Cellular Lightweight Concrete over Structural Concrete.

**System Type F(6):** Membrane adhered to roof deck.

**Lightweight Concrete:** Celcore Cellular Lightweight Concrete, minimum 200 psi, is poured over structural concrete deck per manufacturer's instructions.

**Concrete Deck:** Minimum 2500 psi structural concrete.

**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 to lightweight insulating concrete using Tremco CPG Low Rise Foam Insulation Adhesive, Tremco CPG Low Rise Foam Insulation Adhesive (BG) or Tremco CPG LR Adhesive applied in 0.75" ribbons 4" o.c. for full coverage. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

**Maximum Design Pressure:** -300.00 psf (See General Limitation #9)



**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** Generic Lightweight Concrete, minimum 180 psi, is poured over the steel deck per manufacturer's instructions.

\*Lightweight concrete should record a Minimum Characteristic Resistance Force (MCRF) of 70.46 lbf when tested with CR Base Sheet Fastener (1.7") or Trufast FM-90 Base Sheet Fasteners in accordance with TAS 105.

**System Type F(7):** Membrane adhered to roof deck.

**Steel Deck:** 22 ga. type BV, G-90 steel meeting ASTM A653, Grade 33 at 72" spans, attached with 5/8" puddle welds spaced 6-inch o.c. Side laps are attached with #12-24 x 7/8" HWH spaced 18" o.c.  
**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**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 to lightweight insulating concrete using Tremco CPG Low Rise Foam Insulation Adhesive applied in 0.75" ribbons 4" o.c. for full coverage. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

Or

One ply of TremPly TPO FB or TremPly Max TPO FB adhered to lightweight insulating concrete using TremPly WB Bonding Adhesive applied at 120 ft<sup>2</sup>/gal. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

**Maximum Design Pressure:**

–52.50 psf (See General Limitation #9)



**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** Generic Lightweight Concrete, minimum 180 psi, is poured over the structural concrete deck per manufacturer's instructions. \*Lightweight concrete should record a Minimum Characteristic Resistance Force (MCRF) of 97 lbf. when tested with CR Base Sheet Fastener (1.7") or Trufast FM-90 Base Sheet Fasteners in accordance with TAS 105.

**System Type F(8):** Membrane adhered to roof deck.

**Concrete Deck:** Minimum 2500 psi structural concrete.

**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 to lightweight insulating concrete using Tremco CPG Low Rise Foam Insulation Adhesive applied in 0.75" ribbons 4" o.c. for full coverage. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

Or

One ply of TremPly TPO FB or TremPly Max TPO FB adhered to lightweight insulating concrete using TremPly WB Bonding Adhesive applied at 120 ft<sup>2</sup>/gal. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

**Maximum Design**

**Pressure:** -75.00 psf (See General Limitation #9)



**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** Generic Lightweight Concrete, minimum 180 psi, is poured over the structural concrete deck per manufacturer's instructions. \*Lightweight concrete should record a Minimum Characteristic Resistance Force (MCRF) of 97 lbf. when tested with CR Base Sheet Fastener (1.7") or Trufast FM-90 Base Sheet Fasteners in accordance with TAS 105.

**System Type F(9):** Membrane adhered to roof deck.

**Concrete Deck:** Minimum 2500 psi structural concrete.

**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 to lightweight insulating concrete using Tremco CPG Low Rise Foam Insulation Adhesive (BG) or Tremco CPG LR Adhesive applied in 0.75" ribbons 6" o.c. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

**Maximum Design**

**Pressure:** -67.50 psf (See General Limitation #9)



**Membrane Type:** TPO

**Deck Type 4:** Lightweight Insulating Concrete, Non-Insulated

**Deck Description:** Generic Lightweight Concrete, minimum 180 psi, is poured over the structural concrete deck per manufacturer's instructions. \*Lightweight concrete should record a Minimum Characteristic Resistance Force (MCRF) of 97 lbf. when tested with CR Base Sheet Fastener (1.7") or Trufast FM-90 Base Sheet Fasteners in accordance with TAS 105.

**System Type F(10):** Membrane adhered to roof deck.

**Concrete Deck:** Minimum 2500 psi structural concrete.

**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 to lightweight insulating concrete using Tremco CPG Low Rise Foam Insulation Adhesive applied in 0.75" ribbons 6" o.c. The side laps are sealed with a 1.5" wide heat weld for automatic machine welding. Weld width shall be a minimum 2" width for hand welding.

**Maximum Design Pressure:** -75.00 psf (See General Limitation #9)



## LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117 and/or RAS 137; calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For Systems where specific lightweight insulating concrete is referenced consult current lightweight insulating concrete NOA for specific deck construction and limitations. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.

## 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

