



NEMO|etc.

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ENGINEER

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

Tremco CPG, Inc.

3735 Green Road
Beachwood, OH 44122
(800) 562-2728

PEER-TRM-008.B.R4

FL16129-R9 (HVHZ)

Date of Issuance: 06/26/2023

Revision 4: 12/17/2024

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under F.A.C. [Rule 61G20-3](#) and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the 8th Edition (2023) Florida Building Code, High Velocity Hurricane Zone (HVHZ) [sections noted herein](#).

DESCRIPTION: TREMCO Waterproofing Systems (HVHZ)

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle.

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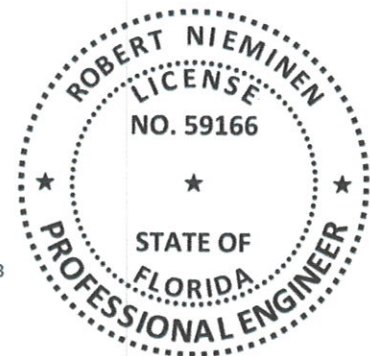
INSPECTION: Upon request, a copy of this entire PEER shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This PEER consists of pages 1 through 5, plus a 6-page Appendix.

Prepared by:

Digitally signed by
Robert Nieminen
Date: 2024.12.17
'16:10:30 -05'00

This item has been digitally signed and sealed by Robert Nieminen, P.E.
Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.
Robert Nieminen, Florida P.E. 59166, FBC ANE1983
NEMO ETC, LLC, Florida CA #32455



CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire, or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the PEERs are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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TREMPROOF 6100 WATERPROOFING SYSTEM	
PRODUCT	RATE
TREMprime QD Low-Odor Primer	Applied at a rate of 150-300 ft ² /gal for 3 to 4 wet mils.
TREMproof 6100	Base coat of TREMproof 6100 applied at 90 wet mils followed by REEMAY 2014 fabric into the wet base coat, and top coat of TREMproof 6100 applied at 125 wet mils

- 4.1 The seeding and back-rolling of aggregate shall be in accordance with Tremco Incorporated published requirements, with an even broadcast to refusal. Any loose aggregate should be removed prior to recoating.
5. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC (HVHZ) 1620 and [Roofing Application Standard](#) RAS 128 for determination of design wind loads. [\(Note 2\)](#)
6. Overburden of soil and plantings (for 'garden roofs', root barriers, filter fabric, drainage components, EPS / XPS insulation, etc.) or concrete topping slabs, that are specified by the Designer of Record, acceptable to the Authority Having Jurisdiction and do not form part of the load path to the waterproofing system, are permissible over the assemblies noted herein with no adverse effect on the wind uplift performance of the system. The Authority Having Jurisdiction may require integrity flood testing (ASTM D5957) or Electric Field Vector Mapping tests of all waterproofing systems prior to placement of overburden materials. Testing, if required by the Authority Having Jurisdiction, should be conducted by a qualified testing agency or professional.
- 6.1 For proprietary overburden components referenced herein, produced by a Product Manufacturer other than the report holder on Page 1 of this PEER:
- Neither NEMO ETC, LLC nor Robert Nieminen, P.E. purport to have evaluated said components for Code compliance. The scope of evaluation is limited to the as-tested interface of said components with the waterproofing systems.
 - Refer to the HVHZ [Product Approval](#) or [Miami-Dade NOA](#) of the component manufacturer to confirm Quality Assurance in accordance with [F.A.C. Rule 61G20-3](#).
 - Proprietary exterior elevated flooring systems shall demonstrate compliance with [FBC 3115](#) to the satisfaction of the Authority Having Jurisdiction.



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TABLE 1A: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: VULKEM WATERPROOFING SYSTEMS: NON-INSULATED, BONDED WATERPROOFING COVER

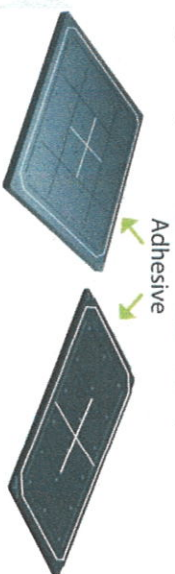
System No.	Deck (Note 1)	Waterproofing (Note 4)		Overburden (Note 6)	MDP (psf)	
		Primer	Base Coat			Top Coat
C-1.	Structural Concrete	None	Vulkem 350NF-R (40 wet mils)	Vulkem 351 (15 wet mils)	Wausau 24x24-inch Terra-Grid System: ✓ installed in accordance with Wausau Tile requirements with Wausau Terrazzo Tile / Thin Pavers, ✓ Terra-Stand base is fully adhered using 3M™ Scotch-Weld™ Pedestal Adhesive DP6330NS applied at 2.25 fl. oz. per base, ✓ Wausau Terrazzo Tile / Thin Paver is adhered to the Terra-Grid Fiber Glass Grate using 3M™ Scotch-Weld™ Pedestal Adhesive DP6330NS applied in ½-inch beads, 3-inch o.c. Wausau 24x24-inch Hidden Lok-Down System: ✓ installed in accordance with Wausau Tile requirements with Wausau Concrete Pavers or Wausau IPE Pavers, ✓ Terra-Stand base is fully adhered using 3M™ Scotch-Weld™ Pedestal Adhesive DP6330NS applied at 2.25 fl. oz. per base.	-200.0
C-2.	Structural Concrete	None	Vulkem 350NF-R (40 wet mils)	Vulkem 351 (15 wet mils)	Wausau 24x24-inch Hidden Lok-Down System: ✓ installed in accordance with Wausau Tile requirements with Wausau Concrete Pavers or Wausau IPE Pavers, ✓ Terra-Stand base is fully adhered using 3M™ Scotch-Weld™ Pedestal Adhesive DP6330NS applied at 2.25 fl. oz. per base.	-200.0
C-3.	Structural Concrete	None	Vulkem 350NF-R (40 wet mils)	Vulkem 951NF (12 wet mils)	Wausau 24x24-inch Terra-Grid System: ✓ installed in accordance with Wausau Tile requirements with Wausau Terrazzo Tile / Thin Pavers, ✓ Terra-Stand base is fully adhered using 3M™ Scotch-Weld™ Pedestal Adhesive DP6330NS applied at 2.25 fl. oz. per base, ✓ Wausau Terrazzo Tile / Thin Paver is adhered to the Terra-Grid Fiber Glass Grate using 3M™ Scotch-Weld™ Pedestal Adhesive DP6330NS applied in ½-inch beads, 3-inch o.c. Wausau 24x24-inch Hidden Lok-Down System: ✓ installed in accordance with Wausau Tile requirements with Wausau Concrete Pavers or Wausau IPE Pavers, ✓ Terra-Stand base is fully adhered using 3M™ Scotch-Weld™ Pedestal Adhesive DP6330NS applied at 2.25 fl. oz. per base.	-210.0
C-4.	Structural Concrete	None	Vulkem 350NF-R (40 wet mils)	Vulkem 951NF (12 wet mils)	Wausau 24x24-inch Hidden Lok-Down System: ✓ installed in accordance with Wausau Tile requirements with Wausau Concrete Pavers or Wausau IPE Pavers, ✓ Terra-Stand base is fully adhered using 3M™ Scotch-Weld™ Pedestal Adhesive DP6330NS applied at 2.25 fl. oz. per base.	-210.0
C-5.	Structural Concrete	(Optional) Vulkem Primer #171	Vulkem 350NF-R (60 wet mils)	Vulkem 350NF-R (10 wet mils) Aggregate: 20-40 mesh silica sand	Ceramic plaza deck tiles (12 x 12 x ½-inch) fully embedded into Increase Systems Thin-Crete Grout using a ½-inch notched trowel.	-597.5
C-6.	Structural Concrete	(Optional) Vulkem Primer #171	Vulkem 350NF-S/L (60 wet mils)	Vulkem 350NF-S/L (10 wet mils) Aggregate: 20-40 mesh silica sand	Ceramic plaza deck tiles (12 x 12 x ½-inch) fully embedded into Increase Systems Thin-Crete Grout using a ½-inch notched trowel.	-620.0
C-7.	Structural Concrete	(Optional) Vulkem Primer #171	Vulkem 350NF-R or 350NF-S/L (40 wet mils)	Vulkem 351 (15 wet mils) Aggregate: 40-50 mesh silica sand or aluminum oxide	None	-815.0



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TABLE 18: CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
SYSTEM TYPE F: VULKEM EXTREME WEARING SYSTEM (EWS), NON-INSULATED, BONDED WATERPROOFING COVER

System No.	Deck (Note 1)	Waterproofing (Note 4)		Overburden (Note 5)	MDP (psf)
		Primer	Base Coat		
C-8.	Structural Concrete	Tremco PUMA Primer (17 wet mils) Aggregate: Silica sand at 0.7 lb/10ft²	Tremco PUMA BC (80 wet mils)	Tremco PUMA TC (20 wet mils)	-120.0
C-9.	Structural Concrete	Tremco PUMA Primer (17 wet mils) Aggregate: Silica sand at 0.7 lb/10ft²	Tremco PUMA BC (80 wet mils)	Tremco PUMA TC (20 wet mils)	-172.5
C-10.	Structural Concrete	Tremco PUMA Primer (17 wet mils) Aggregate: Silica sand at 0.7 lb/10ft²	Tremco PUMA BC (60 wet mils)	Tremco PUMA TC (30 wet mils)	-237.5
C-11.	Structural Concrete	Tremco PUMA Primer (17 wet mils) Aggregate: Silica sand at 0.7 lb/10ft²	Tremco PUMA BC (60 wet mils)	Tremco PUMA TC (30 wet mils)	-267.5





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APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	DECK	APPLICATION	TYPE	MATERIAL	DESCRIPTION		PAGE
					INSTALLATION		
<u>1A</u>	Structural concrete	New or Reroof (Tear-Off)	F	VULKEM 350NF / 351 / 951NF	Non-Insulated, Bonded Waterproofing		3
<u>1B</u>	Structural concrete	New or Reroof (Tear-Off)	F	VULKEM EWS (PUMA)	Non-Insulated, Bonded Waterproofing		4
<u>1C</u>	Structural concrete	New or Reroof (Tear-Off)	F	TREMPROOF 250 GC	Non-Insulated, Bonded Waterproofing		5
<u>1D</u>	Structural concrete	New or Reroof (Tear-Off)	F	TREMPROOF 6100	Non-Insulated, Bonded Waterproofing		6

The following notes apply to the systems outlined herein:

1. The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC HVHZ requirements to the satisfaction of the Authority Having Jurisdiction.
2. For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.
3. For re-roof (tear off) installation, the existing deck shall be examined for compatibility with the adhesive to be installed. If any surface conditions exist that bring system performance into question, field uplift testing in accordance shall be conducted on mock-ups of the proposed new roof assembly. Field uplift testing shall be in accordance with [Testing Application Standard](#) TAS 124.

4. For bonded membrane applications, unless otherwise noted, refer to the following for system components and application rates.

VULKEM 350NF/951NF, 350NF/350NF AND 350NF/351 SYSTEMS*	
PRODUCT	RATE
Vulkem Primer #171	Applied at a rate of 200-300 ft ² /gal.
Vulkem Primer #191 QD	Applied at a rate of 400-450 ft ² /gal.
Vulkem 350NF	Applied at a rate of 60 ft ² /gal for 40 wet mils. Available in roller (R) grade and self-leveling (S/L) grade.
Vulkem 951NF	Roller applied at a rate of 133 ft ² /gal for 15 wet mils
Vulkem 351	Roller applied at a rate of 105 ft ² /gal for 15 wet mils
Note:	*If Vulkem 350NF-R or 350NF-S/L has cured greater than 24 hours or the surface becomes contaminated, clean and prime with Vulkem Primer #191 QD in accordance with Tremco Incorporated published requirements prior to applying subsequent coats
VULKEM EXTREME WEARING SYSTEM (EWS)	
PRODUCT NAME	RATE
Tremco PUMA Primer	Apply at a rate of 90 ft ² /gal for 17 wet mils.
Tremco PUMA BC	Apply at a rate of 20 to 27 ft ² /gal for 60 to 80 wet mils. See tested rate in system tables.
Tremco PUMA TC	Apply at a rate of 80 to 90 ft ² /gal for 20 to 30 wet mils. See tested rate in system tables.
TREMPROOF 250 GC WATERPROOFING SYSTEM	
PRODUCT NAME	RATE
TREMPROOF 250 GC	Apply at a rate of 25 ft ² /gal for 60 wet mils.

5. Deck: NC**Incline: 1-1/2****Primer (Optional):** — "No. 171", 250-ft.²/gal.**Base Coat:** — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 55-ft.²/gal.**Top Coat:** — "Vulkem 351NF" or "346NF", 125-ft.²/gal.**Surfacing:** — Silica sand, 4 to 8-lbs./100-ft.²**System Identification:** — "Pedestrian Deck".**6. Deck: NC****Incline: 1-1/2****Primer (Optional):** — "No. 171", 250-ft.²/gal.**Base Coat:** — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 65-ft.²/gal.**Intermediate:** — "Vulkem 345NF", 100-ft.²/gal.**Top Coat:** — "Vulkem 351NF" or "346NF", 200-ft.²/gal.**Surfacing:** — Silica sand, 10 to 15-lbs./100-ft.²**7. Deck: NC****Incline: 2****Primer (Optional):** — "No. 171", 250-ft.²/gal.**Base Coat:** — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 65-ft.²/gal.**Intermediate:** — "Vulkem 950NF" (Parts A and B), 125-ft.²/gal.**Aggregate:** — Silica sand, 20 to 30 mesh blend, 12-lb./100-ft.²**Top Coat:** — "Vulkem 951NF" (Parts A and B), 125-ft.²/gal.**System Identification:** — "Traffic Deck".**8. Deck: NC****Incline: 1****Primer (Optional):** — "No. 171", 250-ft.²/gal.**Base Coat:** — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 40-ft.²/gal.**Aggregate:** — Silica Sand, 40 to 50 mesh blend, 4 to 6 lbs./100-ft.²**Top Coat:** — "Vulkem 950NF" (Parts A and B), 100-ft.²/gal.**System Identification:** — "Pedestrian".**9. Deck: NC****Incline: 1****Membrane:** — "TREMproof 6100", applied to a thickness of 125 to 215 mils.**Insulation:** — Any UL Classified extruded or expanded polystyrene, any thickness.**Surfacing:** — River bottom stone (3/4 to 1-1/2 in. diameter), 1000-lbs/100-ft.², concrete locks 10-lbs/ft.² minimum spread not more than 1/4 in. apart or "Lightguard" panels surfaced with 5/16-in. minimum thick concrete mortar, butted together.**10. Deck: NC****Incline: 2****Primer (Optional):** — "No. 171", 250-ft.²/gal.**Base Coat:** — "Vulkem 350NF-R" or "Vulkem 350NF-S/L", 40-ft.²/gal.**Aggregate:** — Silica sand, 20 to 30 mesh blend, 12-lbs/100-ft.²**Top Coat:** — "Vulkem 951NF" (Parts A and B), 125-ft.²/gal.**System Identification:** — "Traffic Deck".**11. Deck: NC****Incline: 2****Base Coat (Not UL Classified):** — "TREMPrime Multi Surface Urethane Primer" applied at 100 to 400-ft.²/gal.**Top Coat:** — "Vulkem OC 810" applied at 40 to 45-ft.²/gal.**Granules:** — Rubber Aggregate 12 to 20 mesh, applied at 2.5 to 2.9-lbs/ft.²/100-ft.² into the top coating.**12. Deck: NC****Incline: 1/2****Base Coat (Not UL Classified):** — "Vulkem 191 Low VOC Primer" applied at 100 to 400-ft.²/gal.**Top Coat:** — "Vulkem OC 810" applied at 40 to 45-ft.²/gal.**Granules:** — Rubber Aggregate 12 to 20 mesh, applied at 2.5 to 2.9-lbs/ft.²/100-ft.² into the top coating.**13. Deck: NC****Incline: 3****Primer Coat:** — "Tremco PUMA Primer", applied at 17 to 20 mils.**Base Coat:** — "Tremco PUMA BC" applied at 80 mils.**Intermediate Coat:** — "Tremco PUMA WC" applied at 60 to 65 mils.