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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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NOTICE OF ACCEPTANCE (NOA)

Versico, a division of Carlisle Construction Materials Incorporated
PO Box 1289
Carlisle, PA 17013

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: Versico VersiWeld Single Ply TPO Roof Systems over Cementitious Wood Fiber Decks

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

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

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

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

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

This NOA renews NOA# 14-0626.12 and consists of pages 1 through 6.
The submitted documentation was reviewed by Alex Tigera.

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	TPO
Deck Type:	Cementitous Wood Fiber
Maximum Design Pressure	-120 psf
Fire Classification:	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product Name	Dimensions	Test Specifications	Product Description
VersiFleece TPO	various	TAS 131	Reinforced white or colored TPO membrane with fleece backing.
VersiFleece AC TPO	Various	TAS 131	Reinforced white or colored TPO membrane with fleece backing.
VersiWeld	various	TAS 131	Reinforced white or colored TPO membrane.
VersiWeld Plus TPO	various	TAS 131	Reinforced white or colored TPO membrane.
VersiWeld HS	various	TAS 131	Reinforced white or colored FR TPO membrane.
DASH Adhesive	various	TAS 110	Spray Polyurethane Adhesive
OlyBond 500BA	Various	TAS 110	Polyurethane Adhesive
VersiWeld Bonding Adhesive	various	TAS 110	Solvent-based bonding adhesive.
Aqua Base 120 Bonding Adhesive	Various	TAS 110	Water-based bonding adhesive
Cold Applied Adhesive	Various	TAS 110	Asphalt-Modified Polyether adhesive

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Polyisocyanurate MP, MP-HNB	Polyisocyanurate roof insulation.	Carlisle Syntec, 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	Test Identifier	Description	Date
Architectural Testing Inc.	ATI-37490.01	Membrane Brittleness Testing	7/7/00
Factory Mutual Research Corp.	3Z9A1.AM	Wind Uplift Classification	10/15/97
	Approval Guide Excerpt	Wind Uplift Classification	5/00
	3003337	Class 4470	06/11/99
	3011220	Class 4470	08/16/01
	3012879	Class 4470	04/04/03
	30013584	Class 4470	
Celotex Corporation Testing Services	520257	Membrane Physical Property Testing	4/19/00
SGS U.S. Testing Company Incorporated	131248-R2	Membrane Ozone Resistance Testing	1/6/00
Trinity ERD	C46470.07.14-1A	TAS 131	07/16/14
	C46470.07.14-1B	TAS 131	07/16/14
	C46470.07.14-2A	TAS 131	07/30/14
	C46470.07.14-4-R1	TAS 131	07/21/14

APPROVED ASSEMBLIES

Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, VersiFleece

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Minimum 2" thick Tectum Panel secured to ¼" thick supports at a maximum spacing of 3ft o.c. secured with two #14 Dekfast fasteners and 2" diameter metal plates per panel per support.

System Type A(1): One or more layers of insulation adhered with DASH Adhesive. Membrane fully adhered.

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
Polyisocyanurate MP-H, MP-HNB Minimum 1" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck with DASH Adhesive at minimum rate 1 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Vapor Retarder: None.

Barrier: None.

Membrane Fastening Option #1: VersiFleece TPO 100 or 115 mil membrane fully adhered to the insulation using DASH Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base Bonding Adhesive applied to the substrate at a rate of 1 gal./120ft^2. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -120 psf. (See General Limitation #9)

Membrane Fastening Option #2: VersiWeld, VersiWeld HS Reinforced, 45 or 60 mil membrane or VersiWeld Plus TPO 80 mil membrane fully adhered to the insulation using VersiWeld Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.^{2} (finished surface) or Aqua Base Bonding Adhesive applied to the substrate at a rate of 1 gal./60ft^2. (finished surface). Outside 1.5" of side laps are heat welded.

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

Membrane Fastening Option #3: VersiFleece AC TPO membrane fully adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-25 lbs/sq or Cold Applied Adhesive applied to the substrate at a rate of 1 gal/67ft.^{2} Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -120 psf. (See General Limitation #9)

Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, VersiFleece

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Minimum 2" thick Tectum Panel secured to ¼" thick supports at a maximum spacing of 3ft o.c. secured with two #14 Dekfast fasteners and 2" diameter metal plates per panel per support.

System Type A(2): One or more layers of insulation adhered with OlyBond 500 BA. Membrane fully adhered.

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
Polyisocyanurate MP-H, MP-HNB Minimum 1" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck with OlyBond 500 BA at minimum rate 1 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Vapor Retarder: None.

Barrier: None.

Membrane Fastening Option #1: VersiFleece TPO 100 or 115 mil membrane fully adhered to the insulation using DASH Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base Bonding Adhesive applied to the substrate at a rate of 1 gal./120ft^2. Outside 1.5" of side laps are heat welded.

Membrane Fastening Option #2: VersiWeld, VersiWeld HS Reinforced, 45 or 60 mil membrane or VersiWeld Plus TPO, 72 or 80 mil membrane fully adhered to the insulation using VersiWeld Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.^{2} or Aqua Base Bonding Adhesive applied to the substrate at a rate of 1 gal./60ft^2. Outside 1.5" of side laps are heat welded.

Membrane Fastening Option #3: VersiFleece AC TPO membrane fully adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-25 lbs/sq or Cold Applied Adhesive applied to the substrate at a rate of 1 gal/67ft.^{2} Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -45 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 sidelap 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 with 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 membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

MIAMI-DADE COUNTY APPROVED

11. 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