



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**Versico, Inc.
1555 Ritner Highway
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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Versico VersiFlex Single Ply PVC Roof Systems over Recover 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 new NOA consists of pages 1 through 8.
The submitted documentation was reviewed by Alex Tigera.



**NOA No: 06-1005.04
Expiration Date: 08/24/11
Approval Date: 03/08/07
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ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Single Ply
<u>Material:</u>	PVC
<u>Deck Type:</u>	Recover
<u>Maximum Design Pressure</u>	See Specific System Assemblies

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

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
VersiFlex	various	TAS131	Reinforced white or colored TPO membrane.
CCW 702 Primer	various	TAS 110	Solvent-Based Primer
CCW 702LT Primer	various	TAS 110	Low-Temperature Solvent-Based Primer
CCW 714 Primer	various	TAS 110	Water-Based Primer
CCW 725 Vapor Barrier	various	TAS 110	40 mil Vapor Barrier
FAST 100 Adhesive	various	TAS 110	Spray Polyurethane Adhesive
FAST 100-P Adhesive	various	TAS 110	Spray Polyurethane Adhesive
FAST 102 Adhesive	various	TAS 110	Spray Polyurethane Adhesive
OlyBond 500 BA	various	TAS 110	Spray Polyurethane Adhesive
VersiFlex Bonding Adhesive	various	TAS 110	Solvent-based bonding adhesive.

APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
Pyrox, White Line	Isocyanurate Insulation	Apache Products Co.
ACFoam Composite	Isocyanurate Insulation with perlite facer	Atlas Roofing Corp.
ACFoam II	Isocyanurate Insulation	Atlas Roofing Corp.
Polyisocyanurate MP, MP-N, MP-H, MP-W	Polyisocyanurate roof insulation.	Versico, Inc.
Versico Recovery Board	High Density Wood Fiberboard.	Versico, Inc.
Foamular Durapink Insulation	Extruded Polystyrene insulation	Owens Corning, Inc.
Foamular 1/2" Board	Extruded Polystyrene for white or black adhered system.	Owens Corning, Inc.
Foamular 150, 250, 400, 404, 600	Extruded Polystyrene for white or black mechanically fastened roof systems.	Owens Corning, Inc.
Styrofoam	Extruded polystyrene insulation	Dow
ISO 95+ GL, 95+ GW	Polyisocyanurate foam insulation	Firestone



APPROVED INSULATIONS:

Product Name	Product Description	Manufacturer (With Current NOA)
DensDeck, DensDeck Prime	Silicon treated gypsum	G-P Products
Sturdi-Top	Wood fiber insulation board.	G-P Products
Ultra/M-II	Isocyanurate Insulation	Homasote Co.
ENRGY 2, ENERGY 3, PSI-25	Isocyanurate Insulation	Johns Manville
Fesco Foam	Isocyanurate Insulation with perlite facer	Johns Manville
Retro-Fit	High-density perlite roof insulation.	Johns Manville
Wood Fiberboard	Regular wood fiber insulation	Generic
High Density Wood Fiberboard	High Density Wood Fiber insulation board.	Generic
Perlite Insulation Board	Perlite Insulation	Generic
Type X Gypsum	Gypsum Wallboard	Generic
XPS	Extruded polystyrene	Generic
Multi-Max, FA	Polyisocyanurate foam insulation	Rmax, Inc.
Fiber Base	Asphalt coated wood fiber insulation	Temple Inland Forest Products Corp.
Structodeck	High Density Wood Fiber insulation board.	Wood Fiber Industries

APPROVED FASTENERS:

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Versico HPV or MPV, HPVX and HPV-XL Fasteners	Insulation and membrane fastener	Various	Versico, Inc.
2.	Versico CD-10	Insulation and membrane fastener	Various	Versico, Inc.
3.	Versico Seam Fastening Plates	Driven fasteners used for insulation and membrane securement in concrete decks.		Versico, Inc.
4.	Versico NTB Fasteners	Insulation fastener for cementitious and gypsum decks	Various	Versico, Inc.
5.	Versico NTB Insulation Plates	Metal plates used for membrane securement with Versico NTB Fasteners.	3" dia	Versico, Inc.
6.	Versico Insulation Plates	Metal plates used for insulation securement.	3" dia	Versico, Inc.
7.	Versico Polymer Seam Plates	Plastic plates used for membrane securement with Versico fasteners.	2" dia	Versico, Inc.



APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
8.	HPVX, HPV-XL Plates	Metal plates used for membrane securement with Versico fasteners.	2-3/8" dia	Versico, Inc.
9.	Dekfast Fasteners #14, #15	Insulation and membrane fastener	Various	Construction Fasteners, Inc.
10.	Dekfast Hex Plate	Insulation and membrane fastener	Various	Construction Fasteners, Inc.
11.	#14 Roofgrip	Insulation and membrane fastener	Various	ITW Buildex
12.	Metal Plate	Galvalume AZ50 stress plate	3" square	ITW Buildex
13.	Plastic Plate	Polyethylene stress plate	3.2" round	ITW Buildex
14.	Olympic Fasteners #12, #14	Insulation and membrane fastener	Various	Olympic Mfg. Group
15.	Olympic Stainless Fasteners #14	Stainless steel insulation and membrane fastener	Various	Olympic Mfg. Group
16.	Strap Toggle	Insulation fastener for steel, wood and gypsum decks.	Various	Olympic Mfg. Group
17.	Iron-Lok Toggle	Insulation fastener for steel, wood and gypsum decks.	Various	Olympic Mfg. Group
18.	Lite-Deck Plate	3" round Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
19.	NTB Plate	3" round Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
20.	NTB Metal Barbed Stress Plate	2" round Galvalume AZ55 stress plate	2" round	Olympic Mfg. Group
21.	NTB Plastic Plate	Plastic plates for NTB 2" head fasteners.	3" round	Olympic Mfg. Group
22.	Olympic Standard	Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
23.	Olympic Plastic	Plastic plates for fasteners.	3" round	Olympic Mfg. Group
24.	Rawl Fasteners #14	Insulation fastener for steel and wood decks	Various	Powers Fasteners Inc.
25.	Rawl Drive	Insulation fastener for concrete decks		Powers Fasteners Inc.
26.	Rawl Spike	Insulation fastener for concrete decks		Powers Fasteners Inc.
27.	Rawl Speed-Lock Toggle Bolt	Insulation fastener assembly		Powers Fasteners Inc.
28.	Powerlite	Insulation fastener for cementitious and gypsum decks.		Powers Fasteners Inc.
29.	Powerlite	3" round Galvalume AZ55 stress plate	3" round	Powers Fasteners Inc.



APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
30.	Rawl Insulation Plate	3" round Galvalume AZ55 stress plate	3" round	Powers Fasteners Inc.
31.	Insul-Fixx Fastener	Insulation fastener for steel and wood decks	Various	SFS Stadler, Inc.
32.	Isofast Fasteners	Insulation fastener for steel and wood decks	Various	SFS Stadler, Inc.
33.	Insul-Fixx S	3" round Galvalume AZ55 stress plate	3" round	SFS Stadler, Inc.
34.	Insul-Fixx P	3" round polyethylene stress plate	3" round	SFS Stadler, Inc.
35.	Isofast Plate	Square or oblong Galvalume steel plates for use with Isofast fasteners		SFS Stadler, Inc.
36.	Tru-Fast Fasteners	Insulation and membrane fastener	Various	The Tru-Fast Corp.
37.	Tru-Fast Ultra Stainless Fasteners	Stainless steel insulation and membrane fastener	Various	The Tru-Fast Corp.
38.	Tru-Fast MP-3	Round Galvalume AZ50 steel plate	3.23"	The Tru-Fast Corp.
39.	Tru-Fast Plastic Plate	Polyethylene stress plate	3" round	The Tru-Fast Corp.
40.	Insta-Lock Screw	Insulation and membrane fastener	Various	Versico, Inc.
41.	Insta-Lock Plate	Galvalume AZ55 stress plate	3" round	Versico, Inc.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Factory Mutual Research Corp.	3021764	4470	01/11/06
	3009502	4470	12/21/00
	3014692	4470	08/05/03



APPROVED ASSEMBLIES

- Membrane Type:** Single Ply, Thermoplastic, PVC
- Deck Type 7I:** Recover
- Deck Description:** 2500 psi structural concrete.
- System Type A(1):** One or more layers of insulation adhered with approved asphalt, OlyBond 500 BA or FAST Adhesive; Membrane fully adhered.

All General and System Limitations apply.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Polyisocyanurate MP-HNB, Hunter H-Shield NB Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft², OlyBond 500 BA Adhesive at minimum rate 1 gal/sq or FAST Adhesive at a rate of 1.2 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

- Vapor Retarder:** None.
- Barrier:** None.
- Membrane:** VersiFlex, 50, 60 or 80 mil membrane fully adhered to the insulation using VersiFlex Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.²
- Maximum Design Pressure:**
-180 psf (See General Limitation #9) with Fast Adhesive
-120 psf (See General Limitation #9) with OlyBond 500 BA



Membrane Type: Single Ply, Thermoplastic, PVC
Deck Type 7I: Recover
Deck Description: 2500 psi structural concrete.
System Type A(2): One or more layers of insulation adhered with approved asphalt, OlyBond 500 BA or FAST Adhesive; Membrane fully adhered.

All General and System Limitations apply.

Base Insulation Layer

	Insulation Fasteners (Table 3)	Fastener Density/ft ²
One of the following covered with the boards listed in Top Layer or Base or Top Layer.		
Dens Deck, Dens Deck Prime Minimum 1/4" thick Base or Top Insulation Layer	N/A	N/A
	Insulation Fasteners (Table 3)	Fastener Density/ft ²
One or more layers of the following as a Base or Top Layer or over the Base Layer listed above:		
PYROX, AP, ISO 95+ HF, Rhoflex HF, Multi-Max FA, Polyisocyanurate MP, MP-H or MP-N Minimum 1.2" thick	N/A	N/A
ENRGY-3, ENRGY-2, PSI-25, UltraGard Gold Minimum 1.4" thick	N/A	N/A
ACFoam II, ACFoam Composite, Rhoflex Composite, Fesco Foam, Polyisocyanurate MP-W Minimum 1.5" thick	N/A	N/A
Versico Recovery Board, Structodeck Minimum 1/2" thick	N/A	N/A
High Density Fiberboard Minimum 3/4" thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum 1/4" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft², OlyBond 500 BA Adhesive at minimum rate 1 gal/sq or FAST Adhesive at a rate of 1.2 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down. Insulation can be adhered to the deck with Fast Adhesive.

Vapor Retarder: (Optional) Any UL of FMRC approved vapor Retarder applied to the roof deck or over a base layer of insulation.

Barrier: None.

Membrane: VersiFlex, 50, 60 or 80 mil membrane fully adhered to the insulation using VersiFlex Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.²

Maximum Design Pressure: -120 psf (For Gypsum board top layer) with OlyBond 500 BA (See General Limitation #9)
 -120 psf (For Fiberboard top layer) with OlyBond 500 BA (See General Limitation #9)
 -330 psf (DensDeck, DensDeck Prime) with Fast Adhesive or Asphalt (See General Limitation #9)
 -180 psf (HP Recovery Board) with Fast Adhesive or Asphalt (See General Limitation #9)
 -225 psf (Polyisocyanurate) with Fast Adhesive or Asphalt (See General Limitation #9)



RECOVER SYSTEM LIMITATIONS:

- 1 All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

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. 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 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No: 06-1005.04
Expiration Date: 08/24/11
Approval Date: 03/08/07
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