



**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 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 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 including the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Versico VersiWeld Single Ply TPO Roof Systems over 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 replaces NOA # 08-0414.06 and consists of pages 1 through 20.  
The submitted documentation was reviewed by Alex Tigera.



**NOA No: 10-0422.02  
Expiration Date: 08/31/13  
Approval Date: 06/02/10  
Page 1 of 20**

## ROOFING SYSTEM APPROVAL

Category: Roofing  
Sub-Category: Single Ply  
Material: TPO  
Deck Type: Concrete  
Maximum Design Pressure -540 psf  
Fire Classification: See General Limitation #1

### 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>
VersiWeld VersiFleece	various	TAS 131	Reinforced white or colored TPO membrane with fleece backing.
VersiFleece AC TPO 120 mil	Various	TAS 131	Reinforced white or colored TPO membrane with fleece backing.
VersiFleece AC TPO 135 mil	Various	TAS 131	Reinforced white or colored TPO membrane with fleece backing.
VersiWeld, VersiWeld Plus	various	TAS 131	Reinforced white or colored TPO membrane.
VersiWeld EF/ES	various	TAS 131	Reinforced white or colored FR TPO membrane.
VersiWeld QA RTS	various	TAS 131	Reinforced Securement Strip.
Carlisle Foamular Durapink Insulation	various	TAS 110	Extruded Polystyrene for white or black mechanically fastened roof systems.
Carlisle Foamular ½" Board	various	TAS 110	Extruded Polystyrene recovery board.
Carlisle Foamular 150, 250, 400, 404, 600	various	TAS 110	Extruded Polystyrene insulation
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



<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
FAST 100-P Adhesive	various	TAS 110	Spray Polyurethane Adhesive
FAST 102 Adhesive	various	TAS 110	Spray Polyurethane Adhesive
Versico One Step	Various	TAS 110	Polyurethane Adhesive
Versico Olybond 500BA	Various	TAS 110	Polyurethane Adhesive
Versico Versigrip	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
CP-5067	Various	TAS 110	Asphalt-Modified Polyether Adhesive

**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
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, MP-HNB	Polyisocyanurate roof insulation.	Versico, Inc.
Versico Recovery Board	High Density Wood Fiberboard.	Versico, Inc.
Versico EPS/Fiberboard	High Density Wood Fiberboard bonded to EPS.	Versico, Inc.
Versico EPS Insulation	Expanded Polystyrene.	Versico, Inc.
Styrofoam	Extruded polystyrene insulation	Dow
ISO 95+ GL, 95+ GW	Polyisocyanurate foam insulation	Firestone
Dens Deck, Dens Deck Prime	Silicon treated gypsum	G-P Products
Sturdi-Top	Wood fiber insulation board.	G-P Products
Ultra/M-II	Isocyanurate Insulation	Homasote Co.
H-Shield, H-Shield NB	Isocyanurate Insulation	Hunter Panels



**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
ENRGY 2, ENERGY 3, PSI-25	Isocyanurate Insulation	Johns Manville
Fesco Foam	Isocyanurate Insulation with perlite facer	Johns Manville
Retro-Fit	A 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
Insulfoam I and VIII	Expanded Polystyrene	Insulfoam, Inc.

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**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
1.	Versico Concrete-Spike	Insulation fastener for concrete decks.	Various	Versico, Inc.
2.	Versico MP 14-10 Fastener	Insulation fastener for concrete decks.	Various	Versico, Inc.
3.	Versico HPV or MPV, HPVX, HPV-XL Fasteners	Insulation and membrane fastener	Various	Versico, Inc.
4.	Versico Insulation Plates	Metal plates used for membrane securement with Versico fasteners.	2-7/8" dia	Versico, Inc.
5.	Versico Seam Fastening Plates	Metal plates used for membrane securement with Versico fasteners.	2" dia	Versico, Inc.
6.	Versico Polymer Seam Plates	Plastic plates used for membrane securement with Versico fasteners.	2" dia	Versico, Inc.



**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
7.	HPV-X, HPV-XL Plates	Metal plates used for membrane securement with Versico fasteners.	2-3/8" dia	Versico, Inc.
8.	CD-10	Insulation fastener for concrete decks.		Carlisle Syntec, 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 CD-10	Insulation fastener for concrete decks.		Olympic Mfg. Group
15.	Olympic Fasteners #14	Insulation and membrane fastener	Various	Olympic Mfg. Group
16.	Olympic Stainless Fasteners #14	Stainless steel insulation and membrane fastener	Various	Olympic Mfg. Group
17.	Olympic Standard	Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
18.	Olympic Plastic	Plastic plates for fasteners.	3" round	Olympic Mfg. Group
19.	Rawl Fasteners #14	Insulation fastener for steel and wood decks	Various	Powers Fasteners Inc.
20.	Rawl Drive	Insulation fastener for concrete decks		Powers Fasteners Inc.
21.	Rawl Spike	Insulation fastener for concrete decks		Powers Fasteners Inc.
22.	Rawl Insulation Plate	3" round Galvalume AZ55 stress plate	3" round	Powers Fasteners Inc.
23.	Insul-Fixx Fastener	Insulation fastener for steel and wood decks	Various	SFS Stadler, Inc.
24.	Isofast Fasteners	Insulation fastener for steel and wood decks	Various	SFS Stadler, Inc.
25.	Insul-Fixx S	3" round Galvalume AZ55 stress plate	3" round	SFS Stadler, Inc.



**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
26.	Insul-Fixx P	3" round polyethylene stress plate	3" round	SFS Stadler, Inc.
27.	Isofast Plate	Square or oblong Galvalume steel plates for use with Isofast fasteners		SFS Stadler, Inc.
28.	Tru-Fast Fasteners	Insulation and membrane fastener	Various	The Tru-Fast Corp.
29.	Tru-Fast Ultra Stainless Fasteners	Stainless steel insulation and membrane fastener	Various	The Tru-Fast Corp.
30.	Tru-Fast MP-3	3.23" round Galvalume AZ50 steel plate	3.23" round	The Tru-Fast Corp.
31.	Tru-Fast Plastic Plate	Polyethylene stress plate	3" round	The Tru-Fast Corp.
32.	Insta-Lock Screw	Insulation and membrane fastener	Various	Versico, Inc.
33.	Insta-Lock Plate	Galvalume AZ55 stress plate	3" round	Versico, Inc.

**EVIDENCE SUBMITTED:**

<b>Test Agency</b>	<b>Test Identifier</b>	<b>Description</b>	<b>Date</b>
Architectural Testing Inc.	ATI-37050.01	Wind Uplift Classification	3/13/00
Architectural Testing Inc.	ATI-37490-01	Membrane Brittleness Testing	7/7/00
Factory Mutual Research Corp.	3003393	Wind Uplift Classification	3/30/99
Factory Mutual Research Corp.	3003393 (Letter Report)	Wind Uplift Classification	3/26/99
Factory Mutual Research Corp.	3001522	Wind Uplift Classification	3/26/99
Factory Mutual Research Corp.	3001522 (Letter Report)	Wind Uplift Classification	11/3/98
Factory Mutual Research Corp.	3Z9A1.AM	Wind Uplift and Fire Classification	10/15/97
Factory Mutual Research Corp.	Approval Guide Excerpt	Wind Uplift and Fire Listings	5/00
Factory Mutual Research Corp.	3012879	Class 4470	04/86
Factory Mutual Research Corp.	3021941	Class 4470	03/20/06
Factory Mutual Research Corp.	3014692	Class 4470	08/05/03
Factory Mutual Research Corp.	3014751	Class 4470	08/27/03
Factory Mutual Research Corp.	3013584	Class 4470	06/27/03
Factory Mutual Research Corp.	3011329	Class 4470	06/10/02
Factory Mutual Research Corp.	3017662	Class 4470	06/07/05
Celotex Corporation Testing Services	520257	Membrane Physical Property Testing	4/19/00
SGS U.S. Testing Company Inc.	131248-R2	Membrane Ozone Testing	1/6/00



**APPROVED ASSEMBLIES**

- Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced, FleeceBacked
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete.
- System Type A(1):** One or more layers of insulation adhered with approved asphalt, Versico OlyBond 500BA, Versico Versigrip, Versico One Step or with Fast Adhesive. Membrane fully adhered.

**All General and System Limitations apply.**

<b>Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>HP-HNB, Hunter H-Shield NB Minimum 1.5" thick</b>	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 ft<sup>2</sup>, or Versico Olybond 500BA at a rate of 1gal./sq, or Carlisle Versigrip at a rate of ½ gal./sq, or FAST Adhesive at a rate of 1.2 gal./sq, or Versico One Step at a rate of 1/3gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

- Vapor Retarder:** None.
- Barrier:** None.
- Membrane #1:** VersiWeld, VersiWeld EF/ES, Reinforced, 45 or 60 mil membrane or VersiWeld Plus, 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.<sup>2</sup> or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/60ft<sup>2</sup>.
- Membrane #2:** VersiWeld VersiFleece 100 or 115 mil membrane fully adhered to the insulation using FAST Adhesive applied to the substrate at a rate of 1 gal/sq or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120ft<sup>2</sup>.
- Membrane #3:** VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane 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 CP-5067 applied to the substrate at a rate of 1 gal/67 ft.<sup>2</sup>
- Maximum Design Pressure:**
  - 187.5 psf with FAST Adhesive, Asphalt, or OneStop (See General Limitation #9)
  - 150 psf with OlyBond 500 BA (See General Limitation #9)
  - 157.5 psf with Versigrip (See General Limitation #9)



**Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete.  
**System Type A(2):** One or more layers of insulation adhered with Fast Adhesive. Membrane fully adhered.

**All General and System Limitations apply.**

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>AC Foam II, ENRGY-3, ENRGY-2, Polyisocyanurate MP, MP-H, MP-N or MP-W Minimum 1.5" thick</b>	N/A	N/A
<b>Extruded Polystyrene Minimum 1" thick</b>	N/A	N/A

<b>(Optional) Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Dens Deck, Dens Deck Prime or Strataguard Minimum ¼" thick</b>	N/A	N/A
<b>Versico Recovery Board(required over EPS board) Minimum ½" thick</b>	N/A	N/A

**Note:** All insulation shall be fully adhered to the deck with FAST Adhesive at a rate of 1 gal./sq.

**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 #1:** VersiWeld, VersiWeld EF/ES, Reinforced, 45 or 60 mil membrane or VersiWeld Plus, 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<sup>2</sup>.

*Over Base Layer Insulations: Maximum Design Pressure –352.5 psf. (See General Limitation #9)*

*Over Top Layer Insulations: Maximum Design Pressure –322.5 psf. (See General Limitation #9)*

**Or**

VersiWeld, VersiWeld EF/ES, Reinforced, 45 or 60 mil membrane or VersiWeld Plus, 72 or 80 mil membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft<sup>2</sup>.

*Over Base Layer Insulations: Maximum Design Pressure –127.5 psf. (See General Limitation #9)*

*Over Top Layer Insulations: Maximum Design Pressure –127.5 psf. (See General Limitation #9)*

**Membrane #2:** VersiWeld VersiFleece 100 or 115 membranes fully adhered to the insulation using FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120 ft<sup>2</sup>.

*Over Base Layer Insulations: Maximum Design Pressure –457.5 psf. (See General Limitation #9)*

*Over Top Layer Insulations: Maximum Design Pressure –322.5 psf. (See General Limitation #9)*

**Membrane #3:** VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane 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 CP-5067 applied to the substrate at a rate of 1 gal/67 ft.<sup>2</sup>

*Over Base Layer Insulations: Maximum Design Pressure –352.5 psf. (See General Limitation #9)*

*Over Top Layer Insulations: Maximum Design Pressure –322.5 psf. (See General Limitation #9)*

Maximum Design  
Pressure: See Membrane Options Above.



**Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete.  
**System Type A(3):** One or more layers of insulation adhered with approved asphalt, or Versico Olybond 500BA, or Versico Versigrip, or Versico One-Step, or with Fast Adhesive. Membrane fully adhered.

**All General and System Limitations apply.**

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>One of the following covered with the boards listed in Top Layer or Base or Top Layer.</b>		
<b>Dens Deck, Dens Deck Prime Minimum ¼" thick</b>	N/A	N/A
<b>Base or Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>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</b>		
<b>Minimum 1.2" thick</b>	N/A	N/A
<b>ENRGY-3, ENRGY-2, PSI-25, UltraGard Gold Minimum 1.4" thick</b>	N/A	N/A
<b>ACFoam II, ACFoam Composite, Rhoflex Composite, Fesco Foam, Polyisocyanurate MP-W Minimum 1.5" thick</b>	N/A	N/A
<b>Versico Recovery Board, Structodeck Minimum ½" thick</b>	N/A	N/A
<b>High Density Fiberboard Minimum ¾" thick</b>	N/A	N/A
<b>Dens Deck, Dens Deck Prime or Strataguard Minimum ¼" thick</b>	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 ft<sup>2</sup>, or Versico Olybond 500BA at a rate of 1 gal./sq, or Versico Versigrip at a rate of ½ gal/sq, or Versico OneStep at a rate of 1/3 gal/sq. or FAST Adhesive at a rate of 1 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 #1: VersiWeld, VersiWeld EF/ES, Reinforced, 45 or 60 mil membrane or VersiWeld Plus, 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.<sup>2</sup> or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/60ft<sup>2</sup>.
- Membrane #2: VersiWeld VersiFleece 100 or 115 mil membrane fully adhered to the insulation using FAST Adhesive applied to the substrate at a rate of 1 gal/sq or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120ft<sup>2</sup>.
- Membrane #3: VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane 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 CP-5067 applied to the substrate at a rate of 1 gal/67 ft.<sup>2</sup>

Maximum Design

- Pressure:
- 322.5 psf with FAST Adhesive or Asphalt(See General Limitation #9)
  - 150 psf with Olybond 500BA & Gypsum Top Layer (See General Limitation #9)
  - 120 psf with Olybond 500BA & Fiberboard Top Layer (See General Limitation #9)
  - 105 psf with Versigrip(See General Limitation #9)
  - 127.5 psf with One Step & Fiberboard Top Layer, or Olybond 500BA Polyiso(See General Limitation #9)
  - 232.5 psf with One Step & Gypsum or Polyiso Top Layer (See General Limitation #9)
  - 240 psf with Bead Applied FAST Adhesive & Gypsum Top Layer (See General Limitation #9)



**Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete.  
**System Type C(1):** All layers of insulation simultaneously attached. Membrane fully adhered.

**All General and System Limitations apply.**

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>One of the following covered with the boards listed in Top Layer or Base or Top Layer.</b>		
<b>Extruded Polystyrene, Energy-Lok, ACFoam-II, Insulfoam I and VIII Minimum 1" thick</b>	N/A	N/A
<b>Perlite Minimum ¾" thick</b>	N/A	N/A

**Note:** All insulation layers shall be simultaneously fastened; see Top Layer or Base or Top Layer below for fasteners and density.

<b>Base or Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ACFoam II, ACFoam Composite, Rhoflex Composite, Fesco Foam Minimum 1.5" thick</b>	1, 3, 9, 11, 15, 20, 21, 23 or 28	1:2 ft <sup>2</sup>
<b>ENRGY-2, ENRGY-3, PSI-25, WHITELINE, PYROX, AP, ISO 95+ HF, Rhoflex HF, Polyisocyanurate MP, Polyisocyanurate MP-N, MP-H, MP-W Minimum 1.4" thick</b>	1, 3, 9, 11, 15, 20, 21, 23 or 28	1:2 ft <sup>2</sup>
<b>Minimum 2" thick</b>	1, 3, 9, 11, 15, 20, 21, 23 or 28	1:4 ft <sup>2</sup>
<b>Ultra/M-II Iso/glas Minimum 1.2" thick</b>	9, 11, 15, 20, 21, 24 or 28	1:2 ft <sup>2</sup>
<b>Polyisocyanurate MP-W Minimum 2" thick</b>	1, 3, 20 or 21	1:4 ft <sup>2</sup>
<b>Versico Recovery Board, Fiber Base Minimum ½" thick</b>	1, 3, 20 or 21	1:2 ft <sup>2</sup>
<b>Sturdi Top Minimum ½" thick</b>	9 or 15	1:2 ft <sup>2</sup>
<b>Wood Fiber Minimum 1" thick</b>	1, 3, 20 or 21	1:2 ft <sup>2</sup>
<b>High Density Fiberboard Minimum ¾" thick</b>	9, 15 or 28	1:2.67 ft <sup>2</sup>
<b>Dens Deck, Dens Deck Prime or Strataguard Minimum ¼" thick</b>	1, 2, 7, 9, 11, 14, 15, 17 or 21	1:2 ft <sup>2</sup>



**Top Insulation Layer**

**Insulation Fasteners  
(Table 3)**

**Fastener  
Density/ft<sup>2</sup>**

**Required over the insulations listed in Base Layer or optional over any of the insulations listed as Base or Top Layer :**

**Versico Recovery Board** (for use over all insulation. types) **Fiber Base** (for use over Polyisocyanurate, gypsum or perlite)

**Minimum ½” thick**

**1, 3, 20 or 21**

**1:2 ft<sup>2</sup>**

**Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Top layer of insulation may be adhered with Fast Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

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

Barrier: None.

Membrane: VersiWeld, VersiWeld EF/ES, Reinforced, 45 or 60 mil membrane or VersiWeld Plus, 72 or 80 mil membranes fully adhered to the insulation using VersiWeld Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft<sup>2</sup> or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120ft<sup>2</sup>.  
Or  
VersiWeld VersiFleece 100 or 115 membranes fully adhered to the insulation using FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120ft<sup>2</sup>.  
Or  
VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane fully adhered to the insulation in a mopping of approved asphalt applied within the EVT range and at a rate of 20-25 lbs./sq. or CP-5067 applied to the substrate at a rate of 1 gal./67ft<sup>2</sup>.

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



**Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete.  
**System Type C(2):** All layers of insulation simultaneously attached; membrane fully adhered.

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**All General and System Limitations apply.**

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>One of the following covered with the boards listed in Top Layer.</b>		
<b>Extruded Polystyrene, Energy-Lok, ACFoam-II, Insulfoam I and VIII Minimum 1" thick</b>	N/A	N/A
<b>Perlite Minimum ¾" thick</b>	N/A	N/A
<b>ENRGY-2, ENRGY-3, PSI-25, AC Foam II, Polyisocyanurate MP, Polyisocyanurate MP-W, MP-H, Polyisocyanurate MP-N Minimum 1.5" thick Minimum 2" thick</b>	N/A N/A	N/A N/A
<b>Versico Recovery Board Minimum 1" thick</b>	N/A	N/A
<b>Multi-Max FA, WHITELINE, PYROX, AP, Ultra/M-II Iso/glas Minimum 1.2" thick</b>	N/A	N/A
<b>ACFoam Composite, Rhoflex Composite, Fesco Foam Minimum 1.5" thick</b>	N/A	N/A
<b>High Density Fiberboard Minimum ¾" thick</b>	N/A	N/A
<b>ISO 95+GL, HF, Rhoflex GL, HF Minimum 1.2" thick Minimum 1.4" thick</b>	N/A N/A	N/A N/A
<b>Structodeck Minimum ½" thick</b>	N/A	N/A
<b>Wood Fiber Minimum 1" thick</b>	N/A	N/A
<b>Fiber Base, Retro-Fit Minimum ½" thick</b>	N/A	N/A



**Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Single and multiple layers of insulation can be attached to base layer with Versico Syntec FAST Adhesive.**

<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Required over the insulations listed in Base Layer.</b>		
<b>Dens Deck Prime (For use over all insulation types.) Minimum 5/8" thick</b>	<b>3, 15 or 16 and 17</b>	<b>1:1.33 ft<sup>2</sup></b>

**Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

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

Barrier: None.

Membrane: VersiWeld or VersiWeld EF/ES Reinforced, 45 or 60 mil membrane or VersiWeld Plus, 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.<sup>2</sup>.

Maximum Design Pressure: -90 psf (See General Limitation #7)



**Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete.  
**System Type D(1):** Membrane mechanically attached over preliminary fastened insulation.

**All General and System Limitations apply.**

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>One of the following covered with the boards listed in Top Layer or Base or Top Layer.</b>		
<b>Extruded Polystyrene, Energy-Lok, ACFoam-II, Insulfoam I and VIII Minimum 1" thick</b>	N/A	N/A
<b>Perlite Minimum ¾" thick</b>	N/A	N/A
<b>Base or Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Multi-Max FA, WHITELINE, PYROX, AP, Ultra/M-II Iso/glas, ISO 95+ HF, Rhoflex HF, Polyisocyanurate MP, MP-H, MP-N, MP-W Minimum 1.2" thick</b>	N/A	N/A
<b>UltraGard Gold, Isolite E Minimum 1.3" thick</b>	N/A	N/A
<b>ENRGY-2, ENRGY-3, PSI-25, Polyisocyanurate HP-N, ISO 95+GL, GW, Rhoflex GL, GW Minimum 1.4" thick</b>	N/A	N/A
<b>AC Foam II, ACFoam Composite, Rhoflex Composite, Fesco Foam, Polyisocyanurate MP-W Minimum 1.5" thick</b>	N/A	N/A
<b>Versico Recovery Board, Structodeck, Wood Fiber, Fiber Base Minimum ½" thick</b>	N/A	N/A
<b>High Density Fiberboard Minimum ¾" thick</b>	N/A	N/A
<b>Dens Deck, Dens Deck Prime or Strataguard Minimum ¼" thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>Required over the insulations listed in Base Layer or optional over any of the insulations listed as Base or Top Layer :</b>		
<b>Verisco Recovery Board (for use over all insulation. types) Fiber Base (for use over Polyisocyanurate, gypsum or perlite) Minimum ½" thick</b>	N/A	N/A



**Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. Single and multiple layers of insulation can be attached to the deck with FAST Adhesive, or Versico Olybond 500BA, or Versico Versigrip or Versico One Step.**

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

Barrier: None.

Membrane: VersiWeld, VersiWeld EF/ES or VersiWeld Plus, Reinforced, secured through the preliminarily attached insulation as specified below.

Fastening #1: Versico HPVX, MP 14-10, Concrete Spikes or CD-10 Fasteners with HPVX Plates 6" o.c. through the VersiWeld or VersiWeld Plus Membrane in the lap in rows spaced 7'-7" o.c.  
**Maximum Design Pressure -67.5 psf. (See General Limitation #7)**

Fastening #2: Versico HPVX, MP 14-10, Concrete Spikes or CD-10 Fasteners with HPVX Plates 6" o.c. through the VersiWeld or VersiWeld Plus Membrane in the lap or through a VersiWeld QA RTS in rows spaced 9'-7" o.c.  
**Maximum Design Pressure -60 psf (See General Limitation #7)**

Fastening #3: Versico HPVX, MP 14-10, Concrete Spikes or CD-10 Fasteners with HPVX Plates 9" o.c. through the VersiWeld or VersiWeld Plus Membrane in the lap or through a VersiWeld QA RTS in rows spaced 9'-6" o.c.  
**Maximum Design Pressure -52.5 psf. (See General Limitation #7)**

Fastening #4: Versico HPVX, MP 14-10, Concrete Spikes or CD-10 Fasteners with HPVX Plates 6" o.c. through the VersiWeld EF/ES Membrane in the lap or through a VersiWeld QA RTS in rows spaced 9'-7" o.c.  
**Maximum Design Pressure -52.5 psf. (See General Limitation #7)**

Fastening #5: Versico HPVX, MP 14-10, Concrete Spikes or CD-10 Fasteners with HPVX Plates 9" o.c. through the VersiWeld EF/ES Membrane in the lap or through a VersiWeld QA RTS in rows spaced 9'-7" o.c.  
**Maximum Design Pressure -45 psf. (See General Limitation #7)**

Fastening #6: Versico HPVX, MP 14-10, Concrete Spikes or CD-10 Fasteners with HPVX Plates 12" o.c. through the VersiWeld or VersiWeld Plus Membrane in the lap or through a VersiWeld QA RTS in rows spaced 9'-7" o.c.  
**Maximum Design Pressure -45 psf. (See General Limitation #7)**

Fastening #7: Versico HPVX, MP 14-10, Concrete Spikes or CD-10 Fasteners with HPVX Plates 6" o.c. through the VersiWeld EF/ES Membrane in the lap or through a VersiWeld QA RTS in rows spaced 7'-7" o.c.  
**Maximum Design Pressure -60 psf. (See General Limitation #7)**

Fastening #8: Versico HPVX, MP 14-10, Concrete Spikes or CD-10 Fasteners with HPVX Plates 6" o.c. through the VersiWeld or VersiWeld Plus Membrane in the lap or through a VersiWeld QA RTS in rows spaced 11'-7" o.c.  
**Maximum Design Pressure -60 psf. (See General Limitation #7)**

**Maximum Design Pressure: -See Fastening Options Above**



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**Membrane Type:** Single Ply, Thermoplastic, TPO, Non-Reinforced  
**Deck Type 3:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete.  
**System Type F:** Membrane fully adhered with FAST Adhesive, Aqua Base 120 Bonding Adhesive, Asphalt or CP-5067.

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**All General and System Limitations apply.**

Vapor Retarder: None.

Barrier: None.

Membrane #1: VersiWeld VersiFleece 100 or 115 membrane fully adhered to the deck using FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120 ft<sup>2</sup>

Maximum

Design Pressure: -540 psf with FAST Adhesive (See General Limitation #9)  
-480 psf w/Aqua Base 120 Bonding Adhesive (See General Limitation #9)

Membrane #2: VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane adhered to the deck in a full mopping of approved asphalt within the EVT range and at a rate of 20-25 lbs./sq. or CP-5067 applied to the substrate at a rate of 1 gal./67ft<sup>2</sup>

Maximum

Design Pressure: -60 psf with CP-5067 (See General Limitation #9)  
-367.5 psf with Asphalt (See General Limitation #9)



**CONCRETE DECK 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 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; calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.



## 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 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.

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11. 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**

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