MIAMI-DADE COUNTY

BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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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 Section 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 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. BORA 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 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 revises NOA# 08-0414.10 and consists of pages 1 through 18.
The submitted documentation was reviewed by Alex Tigera.

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	TPO
Deck Type:	Recover
Maximum Design Pressure:	See Specific Assemblies herein.
Fire Classification:	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product Name	Dimensions	Test Specifications	Product Description
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
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
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
Low VOC Bonding Adhesive	Various	TAS 110	Solvent-based bonding adhesive.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
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.	Carlisle Syntec, 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 polystyrense insulation	Dow
ISO 95+ GL, 95+ GW	Polyisocyanurate foam insulation	Firestone
Dens Deck	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
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
Oriented Strand Board	Oriented Strand Board	Generic
Perlite Insulation Board	Perlite Insulation	Generic
Perlite/Urethane Composite	Perlite/urethane composite insulation board	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, LLC
R-Tech, R-Tech Fan Fold	Expanded Polystyrene	Insulfoam, LLC

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	HPV or MPV, HPV-X, HPV-XL	Insulation and membrane fastener	Various	Versico, Inc.
2.	Versico Concrete Spikes	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 Lightweight Fasteners	Insulation fastener for cementitious and gypsum decks	Various	Versico, Inc.
5.	Versico Lightweight Fastening Plates	Metal plates used for membrane securement with Versico Lightweight fasteners.	2" dia	Versico, Inc.
6.	Versico Lightweight Insulation Plates	Metal Plates used for insulation securement with Versico Lightweight fasteners.	3" dia.	Versico, Inc.
7	Versico Insulation Plates	Metal plates used for insulation securement.	2-7/8" dia	Versico, Inc.
8	Versico Polymer Seam Plates	Plastic plates used for membrane securement with Sure-Seal fasteners.	2" dia	Versico, Inc.
9	HPVX, HPV-XL Plates	Metal plates used for membrane securement with Sure-Seal fasteners.	2-3/8" dia	Versico, Inc.
10	Dekfast Fasteners #14, #15	Insulation and membrane fastener	Various	Construction Fasteners, Inc.
11	Dekfast Hex Plate	Insulation and membrane fastener	Various	Construction Fasteners, Inc.
12	#14 Roofgrip	Insulation and membrane fastener	Various	ITW Buildex
13	Metal Plate	Galvalume AZ50 stress plate	3" square	ITW Buildex
14	Plastic Plate	Polyethylene stress plate	3.2" round	ITW Buildex
15.	Olympic Fasteners #12	Insulation and membrane fastener	Various	Olympic Mfg. Group
16	Olympic Fasteners #14	Insulation and membrane fastener	Various	Olympic Mfg. Group
17	Olympic Stainless Fasteners #14	Stainless steel insulation and membrane fastener	Various	Olympic Mfg. Group
18	Strap Toggle	Insulation fastener for steel, wood and gypsum decks.	Various	Olympic Mfg. Group
19	Iron-Lok Toggle	Insulation fastener for steel, wood and gypsum decks.	Various	Olympic Mfg. Group

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
20	Lite-Deck Fastener	Insulation fastener for cementitious and gypsum decks	various	Olympic Mfg. Group
21.	Lite-Deck Plate	3" round Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
22.	NTB Fastner	Insulation and membrane fastener for cementitious or gypsum decks	Various	Olympic Mfg. Group
23	NTB Plate	3" round Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
24	NTB Metal Barbed Stress Plate	2" round Galvalume AZ55 stress plate	2" round	Olympic Mfg. Group
25	NTB Plastic Plate	Plastic plates for NTB 2" head fasteners.	3" round	Olympic Mfg. Group
26	Olympic Standard	Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
27	Olympic Plastic	Plastic plates for fasteners.	3" round	Olympic Mfg. Group
28	Rawl Fasteners #14	Insulation fastener for steel and wood decks	Various	Powers Fasteners Inc.
29	Rawl Drive	Insulation fastener for concrete decks		Powers Fasteners Inc.
30	Rawl Spike	Insulation fastener for concrete decks		Powers Fasteners Inc.
31	Rawl Speed-Lock Toggle Bolt	Insulation fastener assembly		Powers Fasteners Inc.
32	Powerlite	Insulation fastener for cementitious and gypsum decks.		Powers Fasteners Inc.
33	Powerlite	3" round Galvalume AZ55 stress plate	3" round	Powers Fasteners Inc.
34	Rawl Insulation Plate	3" round Galvalume AZ55 stress plate	3" round	Powers Fasteners Inc.
35	Insul-Fixx Fastener	Insulation fastener for steel and wood decks	Various	SFS Stadler, Inc.
36	Isofast Fasteners	Insulation fastener for steel and wood decks	Various	SFS Stadler, Inc.
37	Insul-Fixx S	3" round Galvalume AZ55 stress plate	3" round	SFS Stadler, Inc.
38	Insul-Fixx P	3" round polyethylene stress plate	3" round	SFS Stadler, Inc.
39	Isofast Plate	Square or oblong Galvalume steel plates for use with Isofast fasteners		SFS Stadler, Inc.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
40	Tru-Fast Fasteners	Insulation and membrane fastener	Various	The Tru-Fast Corp.
41	Tru-Fast Ultra Stainless Fasteners	Stainless steel insulation and membrane fastener	Various	The Tru-Fast Corp.
42	Tru-Fast MP-3	3.23" round Galvalume AZ50 steel plate	3.23" round	The Tru-Fast Corp.
43	Tru-Fast Plastic Plate	Polyethylene stress plate	3" round	The Tru-Fast Corp.
44	Insta-Lock Screw	Insulation and membrane fastener	Various	Versico, Inc.
45	Insta-Lock Plate	Galvalume AZ55 stress plate	3" round	Versico, Inc.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
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.	3020845	Wind Uplift and Fire Classification	1/25/06
Factory Mutual Research Corp.	3019897	Wind Uplift and Fire Classification	10/07/05
Factory Mutual Research Corp.	3022187	Wind Uplift and Fire Classification	9/15/05
Factory Mutual Research Corp.	3014692	Wind Uplift and Fire Classification	8/05/03
Factory Mutual Research Corp.	3019890	Wind Uplift and Fire Classification	12/16/04
Factory Mutual Research Corp.	303393	Wind Uplift and Fire Classification	3/30/99
Factory Mutual Research Corp.	303393 (Letter Report)	Wind Uplift Classification	3/26/99
Factory Mutual Research Corp.	3001522	Wind Uplift and Fire 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 Classification Listings	5/00
Factory Mutual Research Corp.	Letter	Wind Uplift and Fire Classifications	5/2/00
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

APPROVED ASSEMBLIES

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

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete.

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

All General and System Limitations apply.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
AC Foam II or III, ENRGY-3, ENRGY-2, Polyisocyanurate MP, MP-H, MP-N or MP-W		
Minimum 1" thick	**N/A**	**N/A**
Extruded or Expanded Polystyrene, Insulfoam I, VIII, R-Tech or R-Tech Fan-Fold		
Minimum 1" thick	**N/A**	**N/A**

(Optional) Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Versico Recovery Board(required over EPS board)		
Minimum ½" thick	**N/A**	**N/A**

Note: All insulation shall be fully adhered to the existing roof 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 or Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft^2.

Maximum Design Pressure –352.5 psf. (See General Limitation #9)

Or

VersiWeld, VesiWeld 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^2.

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

Membrane #2: VersiWeld VersiFleece 100 or 115 membrane fully adhered to the insulation using FAST Adhesive applied to the substrate at a rate of 1 gal/sq.

Maximum Design Pressure –322.5 psf. (See General Limitation #9)

Or

VersiWeld VersiFleece 100 or 115 membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120ft^2.

Maximum Design Pressure –480 psf. (See General Limitation #9)

Membrane #3: VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane fully adhered to the insulation in a full mopping of approved asphalt within the EVT range and at a rate of 20-25lbs./sq.

Maximum Design Pressure –150 psf. (See General Limitation #9)

Or

VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane fully adhered to the insulation with CP-5067 applied at a rate of 1 gal./67ft^2.

Maximum Design Pressure –330 psf. (See General Limitation #9)

Maximum Design Pressure: See Membrane Option Above.

Membrane Type:	Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 7I:	Recover
Deck Description:	2500 psi structural concrete.
System Type A(2):	One or more layers of insulation adhered with approved asphalt, Versico Olybond 500 BA, Versico Versigrip, Versico One-Step, or with 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, Securock		
Minimum ¼" thick	**N/A**	**N/A**

Base or Top Insulation Layer	**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 or III, ACFoam Composite, Rhoflex Composite, Fesco Foam, Polyisocyanurate MP-W		
Minimum 1.5" thick	**N/A**	**N/A**
Versico Recovery Board, Structodeck		
Minimum ½" thick	**N/A**	**N/A**
High Density Fiberboard		
Minimum ¾" thick	**N/A**	**N/A**

Note: Existing roof shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base or top layer when using asphalt for insulation attacbment only. 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^2. 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 existing roof with FAST Adhesive Carlisle Olybond 500 BA, Carlisle Versigrip, Carlise One-Step.

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 or Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.^{2}. or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal./60ft^2.

Membrane #2: VersiWeld VersiFleece 100 or 115 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^2

Membrane #3: VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane fully adhered to the insulation in a full mopping of approved asphalt within the EVT range and at a rate of 20-25lbs./sq, or CP-5067 applied to the substrate at a rate of 1 gal./67ft^2.

Maximum Design Pressure:

–322.5 psf with FAST Adhesive(See General Limitation #9)
–105 psf with Versigrip(See General Limitation #9)
–120 psf with Olybond 500BA or One Step A(See General Limitation #9)

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

Deck Type 7I: Recover

Deck Description: Concrete/lightweight concrete/cementitious wood fiber/wood/steel

System Type C(1): All layers of insulation simultaneously attached; 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		
Extruded Polystyrene, Expanded Polystyrene, Energy-Lok, ACFoam-II, Insulfoam I, VIII, R-Tech, R-Tech Fan-Fold		
Minimum 1" thick	**N/A**	**N/A**
Perlite		
Minimum ¾" thick	**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 e same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base or Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Ultra/M-II Iso/glas		
Minimum 1.2" thick	**Approved Fastener for Deck Type**	**1:2 ft^2**
WHITELINE, PYROX, AP, ISO 95+ HF, Rhoflex HF, Polyisocyanurate MP, MP-H, Secureshield		
Minimum 1.4" thick	**Approved Fastener for Deck Type**	**1:2 ft^2**
Minimum 2" thick	**Approved Fastener for Deck Type**	**1:4 ft^2**
ENRGY-3, ENRGY-2, PSI-25, Polyisocyanurate MP-N		
Minimum 1.4" thick	**Approved Fastener for Deck Type**	**1:2 ft^2**
Minimum 2" thick	**Approved Fastener for Deck Type**	**1:4 ft^2**
ACFoam II, ACFoam Composite, Rhoflex Composite, Fesco Foam, Polyisocyanurate MP-W		
Minimum 1.5" thick	**Approved Fastener for Deck Type**	**1:2 ft^2**
Minimum 2" thick	**Approved Fastener for Deck Type**	**1:4 ft^2**
Versico Recovery Board		
Minimum ½" thick	**Approved Fastener for Deck Type**	**1:2 ft^2**
Fiber Base (for use over polyisocyanurate, gypsum or perlite), Fiber Base		
Minimum ½" thick	**Approved Fastener for Deck Type**	**1:2.9 ft^2**
Sturdi Top		
Minimum ½" thick	**Approved Fastener for Deck Type**	**1:8 ft^2**
High Density Fiberboard		
Minimum ¾" thick	**Approved Fastener for Deck Type**	**1:2.67 ft^2**
Wood Fiber		
Minimum 1" thick	**Approved Fastener for Deck Type**	**1:2.67 ft^2**

Oriented Strand Board
Minimum 7/16" thick **Approved Fastener for Deck Type** **1:2 ft²**

Base or Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**

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 insul. types)
Minimum ½" thick **Approved Fastener for Deck Type** **1:2 ft²**

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 #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 or Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.². or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal./60ft².

Membrane #2: VersiWeld VersiFleece 100 or 115 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./120ft²

Membrane #3: VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane fully adhered to the insulation in a full mopping of approved asphalt within the EVT range and at a rate of 20-25lbs./sq, or CP-5067 applied to the substrate at a rate of 1 gal./67ft².

Maximum Design Pressure: **–45 psf (See General Limitation #9)**

Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 7I: Recover

Deck Description: Concrete/steel/LWC

System Type D(1): Membrane mechanically attached over preliminarily fastened insulation.

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.		
Extruded Polystyrene, Expanded Polystyrene, Energy-Lok, ACFoam-II, Insulfoam I and VIII, R-Tech, R-Tech Fan-Fold		
Minimum 1" thick	**N/A**	**N/A**
Perlite		
Minimum ¾" thick	**N/A**	**N/A**

Base or Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Polyisocyanurate MP, MP-H, Multi-Max FA, WHITELINE, PYROX, AP, ISO 95+ HF, Rhoflex HF, Ultra/M-II Iso/glas, Insulfoam SP, Insulfoam R-Tech, R-Tech Fan-Fold		
Minimum 1.2" thick	**N/A**	**N/A**
UltraGard Gold, Isolite E		
Minimum 1.3" thick	**N/A**	**N/A**
ENRGY-2, PSI-25, ISO 95+GL, GW, Rhoflex GL, GW, Polyisocyanurate MP-N, Polyisocyanurate MP-W,		
Minimum 1.4" thick	**N/A**	**N/A**
ACFoam II, ACFoam Composite, Rhoflex Composite, Fesco Foam		
Minimum 1.5" thick	**N/A**	**N/A**
Versico Recovery Board, Structodeck, Wood Fiber, Fiber Base		
Minimum ½" thick	**N/A**	**N/A**
High Density Fiberboard		
Minimum ¾" thick	**N/A**	**N/A**
Dens Deck, Securock		
Minimum ¼" thick	**N/A**	**N/A**
R-Tech, R-Tech Fan-Fold, SecureShield HD		
Minimum ½" thick	**N/A**	**N/A**

Note: All layers of insulation shall be simultaneously attached. 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, Versico Olybond 500 BA, 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.

Deck: Structural Concrete deck or Minimum 22 gage ASTM A 446 Grade E Steel deck (unless otherwise noted) fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum ITW Buildex Traxx/4 at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex Traxx/1 at a maximum spacing of 30 inches o.c.

Membrane: VersiWeld, VersiWeld EF/ES or VersiWeld Plus, Reinforced, secured through the preliminarily attached insulation as specified below. Or minimum 16 gauge structural purlins.

Note: HP Purlin fasteners must he used in place of HP-X Fasteners when securing into minimum 16 gauge structural purlins.

Fastening #1: HPVX or Concrete 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 -68 psf. (See General Limitation #7)***

Fastening #2: HPVX or Concrete 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: HPVX or Concrete 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'-7" o.c.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)

Fastening #4: HPVX or Concrete 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: HPVX or Concrete 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:	HPVX or Concrete 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:	HPVX or Concrete 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:	**Structural Concrete Deck or Minimum Grade C steel deck:** HPVX or Concrete Fasteners with HPV-XL 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 –52.5 psf. (See General Limitation #7)***
Fastening #9:	**Structural Concrete Deck or Minimum Grade C steel deck:** HPV-XL or Concrete Fasteners with HPV-XL 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)***
Fastening #10:	HPVX or Concrete 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)***
Fastening #11:	**Structural Concrete Deck or Minimum Grade C steel deck:** HPV-XL or Concrete Fasteners with HPV-XL Plates 6" o.c. through the VersiWeld or VersiWeld Plus Membrane in the lap in rows spaced 3'-6" o.c. ***Maximum Design Pressure –82.5 psf. (See General Limitation #7)***
Fastening #12:	**Structural Concrete Deck or Minimum Grade C steel deck:** HPV-XL or Concrete Fasteners with HPV-XL Plates 12" o.c. through the VersiWeld or VersiWeld Plus Membrane in the lap, or through a VersiWeld QA RTS, in rows spaced 3'-6" o.c. ***Maximum Design Pressure –52.5 psf. (See General Limitation #7)***
Maximum Design Pressure:	**See Fastening Options Above**

Membrane Type: Single Ply, Thermoplastic, Reinforced, FleeceBACK

Deck Type 7I: Recover

Deck Description: 2500 psi structural concrete/steel

System Type F(1): Membrane fully adhered with FAST Adhesive, Aqua Base 120 Bonding Adhesive, Asphalt or CP-5067.

All General and System Limitations apply.

Vapor Retarder: None.

Barrier: None.

Membrane #1(A): VersiWeld VersiFleece 100 or 115 membrane fully adhered to the existing roof 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^2
Maximum Design Pressure: -540 psf (See General Limitation #9)

Membrane #1(B): VersiWeld VersiFleece 100 or 115 membrane fully adhered to the existing roof using Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120ft^2
Maximum Design Pressure: -480 psf (See General Limitation #9)

Membrane #2(A): VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane fully adhered to the insulation in a full mopping of approved asphalt within the EVT range and at a rate of 20-25 lbs/sq.
Maximum Design Pressure: -367.5 psf (See General Limitation #9)

Membrane #2(B): VersiFleece AC TPO 120 mil or VersiFleece AC TPO 135 mil membrane fully adhered to the insulation with CP-5067 applied to the substrate at a rate of 1 gal./67ft^2.
Maximum Design Pressure: -60 psf (See General Limitation #9)

Membrane #3: VersiWeld VersiFleece 100 or 115 membrane fully adhered to the existing roof using FAST Adhesive applied in ribbons spaced 6" o.c.
Maximum Design Pressure: -75 psf (See General Limitation #9)

Membrane Type:	Single Ply, Thermoplastic, TPO, FleeceBacked
Deck Type 7I:	Recover
Deck Description:	Lightweight Insulating Concrete over Structural Concrete
System Type F(2):	Membrane fully adhered to primed lightweight insulating concrete deck.

All General and System Limitations apply.

Vapor Retarder:	None
Membrane:	VersiWeld VersiFleece 100 or 115 mil membrane fully adhered to the lightweight deck using FAST adhesive applied at a rate of 1 gal./sq. or Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal./120ft^2.
Maximum Design Pressure:	**-262.5 psf. (See General Limitaiton #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.

2 The membrane can be identified using the identification code printed outside the splice overlap area (visible every 50') or within the slice area. The code begins with either 9 or 91 to designate the plant. The next three letters designate the material and color. The next six numbers designate the date of manufacture (year/month/day). The next letter designates the shift and the last number designates the machine. In addition to this identification code, the letters "CCM" are also printed within the splice overlap area.

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 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE