



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

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

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 Steel 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# 18-0108.22 and consists of pages 1 through 21.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 23-0410.16
Expiration Date: 08/31/24
Approval Date: 08/17/23
Page 1 of 21

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply
Material: TPO
Deck Type: Steel
Maximum Design Pressure -90 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>
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.
VersiWeld TPO Pressure Sensitive RUSS	various	TAS 131	Reinforced Securement Strip.
DASH Adhesive	Various	TAS 131	Polyurethane Adhesive
Olybond 500BA	Various	TAS 110	Polyurethane Adhesive
One-Step Adhesive	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**

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
Polyisocyanurate MP, MP-H Dens Deck, Dens Deck Prime	Polyisocyanurate roof insulation. Silicon treated gypsum	Versico, Inc. Georgia-Pacific, Gypsum, LLC.

APPROVED FASTENERS:**TABLE 3**

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Insultite Fastener, HPVX Fastener, HPV-XL Fastener	Insulation and membrane fastener	Various	Versico, Inc.
2.	Insulation Fastening Plate	Metal plates used for insulation securement with Insultite Fastener fasteners.	3" dia	Versico, Inc.
3.	HPVX, HPV-XL Plates	Metal plates used for membrane securement with HPVX & HPV- XL Fasteners.	2-3/8" dia	Versico, Inc.
4.	#12 Standard Roofgrip, #14 Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
5.	#12 Standard Stainless Steel	Stainless steel insulation and membrane fastener	Various	OMG, Inc.



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Architectural Testing Inc.	ATI-37050.01	Wind Uplift Classification	3/13/00
	ATI-37490.01	ASTM D 2137	7/7/00
Factory Mutual Research Corp.	3003393	Class 4470	3/30/99
	3003393	Wind Uplift Classification	3/26/99
	(Letter Report)		
	3001522	Wind Uplift Classification	3/26/99
	3001522	Wind Uplift Classification	11/3/98
	(Letter Report)		
	3Z9A1.AM	Wind Uplift Classification	10/15/97
	Approval Guide Excerpt	Wind Uplift Classification	5/00
		Listings	
	3B8Q4.AM		06/04/97
	3006664		08/08/00
	1B7A5.AM		02/23/98
	3026316		04/24/07
	3011494		
	3007710		03/12/01
	3011329		06/10/02
	3013584	Class 4470	06/27/03
	3011220	Class 4470	08/16/01
	3006110	Class 4470	06/13/01
	3012879	Class 4470	04/04/03
	3017662	Class 4470	06/07/05
	3013584	Class 4470	06/27/03
	3020845	Class 4470	01/25/06
	3019897	Class 4470	10/07/05
	3022187	Class 4470	09/15/05
	3022181	Class 4470	09/01/05
	3023032	Class 4470	07/20/05
Celotex Corporation Testing Services	520257	Membrane Physical Property Testing	4/19/00
SGS U.S Testing Company Incorporated	131248-R2	Ozone Resistance	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

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies:</u>	<u>Date</u>
FM Approval Deck Limitation	RoofNav Listing	C(2), C(3), C(4), D(1), D(2), D(3), D(4), D(5), D(6), D(8)	01/01/13



NOA No.: 23-0410.16
 Expiration Date: 08/31/24
 Approval Date: 08/17/23
 Page 4 of 21

APPROVED ASSEMBLIES

Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, VersiFleece
Deck Type 2I: Steel, Insulated
Deck Description: 18-22 ga. Steel
System Type A(1): All layers of insulation adhered to deck, 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.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP-H Minimum 1" thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum ¼" thick	N/A	N/A

Note: All insulation shall be fully adhered to the deck with FAST 100 Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Vapor Retarder: None.

Barrier: None.

Membrane #1: 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 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.² (finished surface). Outside 1.5" of side laps are heat welded.

Membrane #2: 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 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120 ft.² Outside 1.5" of side laps are heat welded.

Membrane #3: VersiFleece AC TPO 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 Cold Applied Adhesive applied to the substrate at a rate of 1 gal/67 ft.² Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -60 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, VersiFleece
Deck Type 2I: Steel, Insulated
Deck Description: 18-22 ga. Steel
System Type C(1): All layers of insulation simultaneously attached; 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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP, Polyisocyanurate MP-H, Minimum 1.4" thick	1, 2, 4, 5	1:3.2 ft ²
Minimum 2" thick	1, 2	1:4 ft ²
Dens Deck, Dens Deck Prime Minimum ¼" thick	1, 2	1:2 ft ²

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. Single and multiple layers of insulation can be attached to base layer with DASH Adhesive, Olybond 500BA, or One-Step Adhesive

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 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). Outside 1.5" of side laps are heat welded.
Maximum Design Pressure –45 psf (See General Limitation #9)

Membrane #2: VersiFleece TPO 100 or 115 mil membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120 ft.² Outside 1.5" of side laps are heat welded.
Maximum Design Pressure –45 psf. (See General Limitation #9)

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. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure –60 psf. (See General Limitation #9)

Maximum Design Pressure: See Membrane Options Above



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

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gage, Type B, ASTM A 653 SS Grade 33 Steel deck 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 24 inches o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table.

System Type C(2): All layers of insulation simultaneously attached; 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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP, Polyisocyanurate MP-H Minimum 1.5" thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum ¼" 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 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 DASH Adhesive, Olybond 500BA, or One-Step Adhesive.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Required over the insulations listed in Base Insulation Layer: Plywood Minimum 19/32" thick	1, 2	1:1.9 ft ²

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 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). Outside 1.5” of side laps are heat welded.
Maximum Design Pressure –75 psf (See General Limitation #7)
Or
VersiWeld, VersiWeld HS, Reinforced, 45 or 60 mil membrane or VersiWeld Plus TPO, 80 mil membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120 ft.² (finished surface). Outside 1.5” of side laps are heat welded.
Maximum Design Pressure –52.5 psf (See General Limitation #7)
- Membrane #2:** 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. Outside 1.5” of side laps are heat welded.
Maximum Design Pressure –75 psf. (See General Limitation #7)
Or
VersiFleece TPO 100 or 115 mil membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate at a rate of 1 gal/120 ft.² Outside 1.5” of side laps are heat welded.
Maximum Design Pressure –67.5 psf. (See General Limitation #7)
- Maximum Design Pressure:** See Membrane Options Above

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

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gage (min 0.0294in.) ASTM A 653 SS Grade 33 Steel deck 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 24 inches o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittal Table.

System Type C(3): All layers of insulation simultaneously attached; 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.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP, Polyisocyanurate MP-H Minimum 2" thick	1, 2	1:1.6 ft ²

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. Single and multiple layers of insulation can be attached to base layer with DASH Adhesive.

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 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). Outside 1.5" of side laps are heat welded.
Maximum Design Pressure –75 psf (See General Limitation #7)

Membrane #2: 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. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure –75 psf. (See General Limitation #7)

Membrane #3: VersiFleece AC TPO membrane adhered to the insulation using Cold Applied Adhesive applied to the substrate at a rate of 1 gal/67 ft.² Outside 1.5" of side laps are heat welded.
Maximum Design Pressure –60 psf. (See General Limitation #7)

Maximum Design Pressure: See Membrane Options Above



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gage ASTM A 611 Grade E or A653 Grade 80 Steel deck fastened to steel support at a maximum span of 6 feet o.c. Steel deck shall be fastened with minimum ITW Buildex Traxx/5 at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex Traxx/1 at a maximum spacing of 24 inches o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type C(4): All layers of insulation simultaneously attached; 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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
One of the following covered with the boards listed in Top Layer.		
Polyisocyanurate MP, Polyisocyanurate MP-H Minimum 1.5" 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 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 DASH Adhesive.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Required over the insulations listed in Base Layer.		
Dens Deck Prime (For use over all insulation types.) Minimum 5/8" thick	5	1:1.33 ft ²

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 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). Outside 1.5” of side laps are heat welded.

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



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gage (min 0.0295in.) Type B, ASTM A 611 Grade E or ASTM A 653 Grade 80 Steel deck 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.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittal Table.

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

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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP, Polyisocyanurate MP-H Minimum 1.2" thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum 1/4" thick	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 DASH Adhesive, Olybond 500BA, One-Step Adhesive.

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 HS or VersiWeld Plus TPO, Reinforced, secured through the preliminarily attached insulation as specified below.

Fastening #1: HPVX Fasteners with HPVX Plates 6" o.c. through the VersiWeld HS Membrane in the lap or through a VersiWeld TPO Pressure-Sensitive RUSS Strip in rows spaced 9'-6" o.c. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure -52.5 psf. (See General Limitation #7)

Fastening #2: HPVX Fasteners with HPVX Plates 12" o.c. through the VersiWeld or VersiWeld Plus TPO Membrane in the lap or through a VersiWeld TPO Pressure-Sensitive RUSS Strip in rows spaced 7'-7" o.c. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure -45 psf. (See General Limitation #7)

Maximum Design Pressure: See Fastening Options Above



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 20 gage (min 0.0295in.) Type B, ASTM A 611 Grade E or ASTM A 653 Grade 80 Steel deck 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.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table.

System Type D(2): Membrane mechanically attached over preliminarily fastened insulation.

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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP, Polyisocyanurate MP-H Minimum 1.2” thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum ¼” thick	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 DASH Adhesive, Olybond 500BA, One-Step Adhesive.

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 HS or VersiWeld Plus TPO, Reinforced, secured through the preliminarily attached insulation as specified below.

Fastening #1: HPVX Fasteners with HPVX Plates 6" o.c. through the VersiWeld or VersiWeld Plus TPO Membrane in the lap in rows spaced 7'-6" o.c. Outside 1.5” of side laps are heat welded.
Maximum Design Pressure -67.5 psf. (See General Limitation #7)

Fastening #2: HPV-XL Fasteners with HPV-XL Plates 12" o.c. through the VersiWeld or VersiWeld Plus TPO Membrane in the lap or through a VersiWeld TPO Pressure-Sensitive RUSS Strip in rows spaced 9'-7" o.c. Outside 1.5” of side laps are heat welded. Outside 1.5” of side laps are heat welded.
Maximum Design Pressure -45 psf. (See General Limitation #7)

Maximum Design Pressure: See Fastening Options Above

Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 18 gage (min 0.0295in.) Type B, ASTM A 611 Grade E or ASTM A 653 Grade 80 Steel deck 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.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittal Table.

System Type D(3): Membrane mechanically attached over preliminarily fastened insulation.

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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP, Polyisocyanurate MP-H Minimum 1.2" thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum 1/4" thick	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 DASH Adhesive, Olybond 500BA, One-Step Adhesive.

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 HS or VersiWeld Plus TPO, Reinforced, secured through the preliminarily attached insulation as specified below.

Fastening: HPVX Fasteners with HPVX Plates 6" o.c. through the VersiWeld or VersiWeld Plus TPO Membrane in the lap or through a VersiWeld TPO Pressure-Sensitive RUSS Strip in rows spaced 9'-7" o.c. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure -60 psf. (See General Limitation #7)

Maximum Design Pressure: See Fastening Options Above



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gage Type B, ASTM A 1008SS Grade 80 or ASTM A 653 Grade 80 Steel deck 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.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittal Table.

System Type D(4): Membrane mechanically attached over preliminarily fastened insulation.

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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP, Polyisocyanurate MP-H Minimum 1.2" thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum 1/4" thick	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 DASH Adhesive, Olybond 500BA, One-Step Adhesive.

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 HS or VersiWeld Plus TPO, Reinforced, secured through the preliminarily attached insulation as specified below.

Fastening: HPVX Fasteners with HPVX Plates 6" o.c. through the VersiWeld HS Membrane in the lap or through a VersiWeld TPO Pressure-Sensitive RUSS Strip in rows spaced 7'-7" o.c. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure -60 psf. (See General Limitation #7)

Maximum Design Pressure: See Fastening Options Above



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 18 gage Type B, ASTM A 1008SS Grade 80 or ASTM A 653 Grade 80 Steel deck 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.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittal Table.

System Type D(5): Membrane mechanically attached over preliminarily fastened insulation.

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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP, Polyisocyanurate MP-H Minimum 1.2" thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum 1/4" thick	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 DASH Adhesive, Olybond 500BA, One-Step Adhesive.

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 HS or VersiWeld Plus TPO, Reinforced, secured through the preliminarily attached insulation as specified below.

Fastening: HPVX Fasteners with HPVX Plates 6" o.c. through the VersiWeld or VersiWeld Plus TPO Membrane in the lap or through a VersiWeld TPO Pressure-Sensitive RUSS Strip in rows spaced 11'-6.5" o.c. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure -60 psf. (See General Limitation #7)

Maximum Design Pressure: See Fastening Options Above



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 18 gage Type B, ASTM A 653 Grade 33 Steel deck 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.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table.

System Type D(6): Membrane mechanically attached over preliminarily fastened insulation.

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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP, Polyisocyanurate MP-H Minimum 1.2" thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum ¼" thick	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 DASH Adhesive, Olybond 500BA, One-Step Adhesive.

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 HS or VersiWeld Plus TPO, Reinforced, secured through the preliminarily attached insulation as specified below.

Fastening #1: HPVX Fasteners with HPVX Plates 6" o.c. through the VersiWeld or VersiWeld Plus TPO Membrane in the lap or through a VersiWeld TPO Pressure-Sensitive RUSS Strip in rows spaced 11'-6.5" o.c. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure –52.5 psf. (See General Limitation #7)

Fastening #2: HPV-XL Fasteners with HPV-XL Plates 6" o.c. through the VersiWeld or VersiWeld Plus TPO Membrane in the lap or through a VersiWeld TPO Pressure-Sensitive RUSS Strip in rows spaced 11'-6.5" o.c. Outside 1.5" of side laps are heat welded
Maximum Design Pressure –60 psf. (See General Limitation #7)

Maximum Design Pressure: See Fastening Options Above



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gage (min 0.0295in.) Type B, Grade E Steel deck 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 24 inches o.c.

System Type D(7): Membrane mechanically attached over preliminarily fastened insulation.

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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP, Polyisocyanurate MP-H Minimum 1.5" thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum ¼" thick	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 DASH Adhesive, Olybond 500BA, One-Step Adhesive.

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 HS or VersiWeld Plus TPO, Reinforced, secured through the preliminarily attached insulation as specified below.

Fastening #1: HPVX Fasteners with HPVX Plates 9" o.c. through the VersiWeld or VersiWeld Plus TPO Membrane in the lap or through a VersiWeld TPO Pressure-Sensitive RUSS Strip in rows spaced 9'-6" o.c. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure -52.5 psf. (See General Limitation #9)

Fastening #2: HPVX Fasteners with HPVX Plates 9" o.c. through the VersiWeld HS Membrane in the lap or through a VersiWeld TPO Pressure-Sensitive RUSS Strip in rows spaced 9'-7" o.c. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure -45 psf. (See General Limitation #9)

Maximum Design Pressure: See Fastening Options Above



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gage Type B, ASTM A 1008 SS Grade 33 Steel deck fastened to steel support at a maximum span of 5 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 24 inches o.c.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittal Table.

System Type D(8): Membrane mechanically attached over preliminarily fastened insulation.

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.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate MP, Polyisocyanurate MP-H Minimum 1.2" thick	N/A	N/A
Dens Deck, Dens Deck Prime Minimum 1/4" thick	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 DASH Adhesive, Olybond 500BA, One-Step Adhesive.

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 HS or VersiWeld Plus TPO, Reinforced, secured through the preliminarily attached insulation as specified below.

Fastening #1: HPVX Fasteners with HPVX Plates 6" o.c. through the VersiWeld or VersiWeld Plus TPO Membrane in the lap in rows spaced 3'-6" o.c. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure –82.5 psf. (See General Limitation #7)

Fastening #2: HPVX Fasteners with HPVX Plates 12" o.c. through the VersiWeld or VersiWeld Plus TPO Membrane in the lap or through a VersiWeld TPO Pressure-Sensitive RUSS Strip in rows spaced 3'-6" o.c. Outside 1.5" of side laps are heat welded.
Maximum Design Pressure –52.5 psf. (See General Limitation #7)

Maximum Design Pressure: See Fastening Options Above



STEEL 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 equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.



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.



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



NOA No.: 23-0410.16
Expiration Date: 08/31/24
Approval Date: 08/17/23
Page 21 of 21