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

NOTICE OF ACCEPTANCE (NOA)

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/economy

Seaman Corporation
1000 Venture Boulevard
Wooster, OH 44691

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: FiberTite Single Ply Roof Systems over Lightweight 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 NOA renews NOA# 16-0518.06 and consists of pages 1 through 23.
The submitted documentation was reviewed by Alex Tigera.

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply
Material: KEE
Deck Type: Lightweight Concrete
Maximum Design Pressure -405 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
FiberTite	various	ASTM D 6754	KEE, polyester reinforced, single ply membrane
FiberTite-XT	Various	ASTM D 6754	KEE, polyester reinforced, single ply membrane
FiberTite-SM	Various	ASTM D 6754	KEE, polyester reinforced, single ply membrane
FiberTite-XTreme	Various	ASTM D 6754	KEE, polyester reinforced, single ply membrane
Style 80	Various	ASTM D 6754	KEE, polyester reinforced, single ply membrane
Style 80-M	Various	ASTM D 6754	KEE, polyester reinforced, single ply membrane
FiberTite FB	Various	ASTM D 6754	KEE, fleece-backed, single ply membrane
FiberTite-XT FB	Various	ASTM D 6754	KEE, fleece-backed, polyester reinforced, single ply membrane
FiberTite-SM FB	Various	ASTM D 6754	KEE, fleece-backed, polyester reinforced, single ply membrane
Style 80 FB	Various	ASTM D 6754	KEE, fleece-backed, polyester reinforced, single ply membrane
Style 80-M FB	Various	ASTM D 6754	KEE, fleece-backed, polyester reinforced, single ply membrane
FTR 60-mil Non-Reinforced	0.060” x 48” x 24’	ASTM D 6754	KEE flashing accessory
FTR Cones	1” to 8”	ASTM D 6754	Premolded “KEE” pipe flashing
FTR Corners	2’ x 2’	ASTM D 6754	Premolded “KEE” corner flashing (4 per unit)
FTR-190e	5 gal. pails	Proprietary	Solvent based bonding adhesive
FTR 290	5 gal. pails	Proprietary	One side “substrate only” fleece back solvent based adhesive
FTR 390	5 gal. pails	Proprietary	One side “substrate only” fleece back asphalt based adhesive
FTR 490	5 gal. pails	Proprietary	One side “substrate only” fleece backed water based adhesive
FTR 601	5 gal. pails	Proprietary	Elastomeric, one step foamable adhesive
FTR 601 PG	5 gal. or 50 gal. pails	Proprietary	Two-component, VOC free, polyurethane adhesive

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
FiberClad	48" x 120"	N/A	Polymeric coated G-90 galvanized steel, stainless steel or aluminum
Tuff Trac	0.080" x 28" or 56" x 43' ¼" x 24" x 48"	N/A	Vinyl walk way Vinyl protection pad

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
FTR-Value, FTR-Value A, FTR-Value H	Isocyanurate Insulation	Seaman Corporation
ACFoam-II	Isocyanurate Insulation	Atlas Roofing Corporation
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia-Pacific Gypsum LLC
H-Shield	Polyisocyanurate Insulation	Hunter Panels, a div. of Carlisle Const. Materials, LLC
ENRGY 3	Isocyanurate Insulation	Johns Manville Corporation
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax Operating, LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum Coverboard	United States Gypsum Corporation
Insulfoam EPS	Expanded polystyrene insulation	Insulfoam, a Div. of Carlisle Const. Materials

APPROVED FASTENERS/ADHESIVES:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	FTR Magnum	Membrane fastener	Various	Seaman Corporation
2.	FTR Magnum plate	Galvalume AZ50 stress plate	1.5" x 2.5"	Seaman Corporation
3.	FTR Magnum 2S	Barbed, galvalume AZ50 stress plate.	2-3/8" Dia.	Seaman Corporation
4.	Dekfast Galvalume Steel Round 2-3/8 in. 20-Ga. Barbed Plate	Barbed, Galvalume AZ50 stress plate	2-3/8" Dia.	SFS Group USA, Inc.
5.	Dekfast Isofast IF-2.375-AT Membrane Plate	Galvalume AZ50 stress plate, #15 belted fastener system	2-3/8" Dia.	SFS Group USA, Inc.
6.	Dekfast Fasteners	Insulation and membrane fasteners.	Various	SFS Group USA, Inc.
7.	Dekfast Galvalume Steel Hex	Galvalume AZ50 steel plate	2-7/8" x 3¼"	SFS Group USA, Inc.
8.	OMG ASAP Fastener	Preassembled fastener and plate.	3" round	OMG, Inc.
9.	OMG Fasteners	Membrane and Insulation fasteners	Various	OMG, Inc.
10.	Dekfast 15 HS	Carbon steel fastener for concrete, steel and wood decks	Various	SFS Group USA, Inc.
11.	FTR Magnum Plus	Oval stress plate	1½" x 2¾"	Seaman Corporation
12.	ICP Adhesives CR-20	Polyurethance adhesive		ICP Adhesives and Sealants, Inc.

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corp.	FM 4470	J.I. 1Z3A8.AM	08/13/97
	FM 4470	0D2A8.AM	01/12/98
	FM 4470	J.I. 4D5A4.AM	10/05/99
	FM 4470	3013068	09/23/03
	FM 4470	3028651	04/17/08
	FM 4470	3033396	09/04/09
	FM 4470	3036192	11/23/09
	FM 4470	3051608	10/23/16
Underwriters Laboratories	UL 790	94NK40647	10/15/94
	UL 790	95NK20862	11/17/95
Trinity | ERD	TAS 114	02767.09.05-S2	09/27/05
	TAS 114	4015.10.96-1-R1	07/20/10
	FM 4470 / TAS 114	S32410.09.10	09/21/10
	FM 4470 / TAS 114	S6220.03.07-R1	05/13/11
	ASTM D 6754	S47410.12.14	12/15/14
	TAS 114	4006.07.97-1-R2	11/25/15
	FM 4474 / TAS 114	S43840.11.15	11/30/15
	FM 4474 / TAS 114	SMN-SC11005.06.16	06/30/16
PRI Construction Materials Technologies LLC	ASTM D 3747	HGC-142-02-03-R1	06/16/16
	FM 4474	SMCP-006-02-01	03/28/16

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

Engineer/Agency	Identifier	Assemblies	Date
Robert Nieminen, P.E.	Signed/Sealed Calculations	E(1), E(2), F(2), F(3)	12/11/15
Zachary Priest, P.E.	Signed/Sealed Calculations	F(1)	03/28/16

APPROVED ASSEMBLIES

Membrane Type: Single Ply, KEE

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Min. 272 psi Mearlcrete, or min. 240 psi Elastizell LWIC cast over min 2500 psi structural concrete

System Type A(1): One or more layers of insulation adhered with approved adhesive, membrane 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.

One or more layers of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
FTR-Value, FTR-Value A, FTR-Value H, ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3 Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
FTR-Value, FTR-Value A, FTR-Value H, ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3 Tapered	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ICP Adhesives CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. 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.

Membrane:

FiberTite-FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered with FTR-390 adhesive at 1 gal. per 60 ft^2. Laps are sealed with 1.5-inch heat weld.
Maximum Design Pressure: -67.5 psf (See General Limitation #9)
Or
FiberTite-FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered with FTR-290 adhesive at 1 gal/sq or FTR-490 water based adhesive at 100 ft²/gal. Laps are sealed with 1.5-inch heat weld.
Maximum Design Pressure: -105 psf (See General Limitation #9)
Or
FiberTite, FiberTite-XT, FiberTite-SM, FiberTite-XTreme, Style 80 or Style 80-M roof cover adhered with FTR-190e Bonding Adhesive applied at a rate of 1 gal/sq. to the back side of the membrane and to the substrate. Laps are sealed with 1.5-inch heat weld.
Maximum Design Pressure: -117 psf (See General Limitation #9)

Maximum Design Pressure: See Membrane Options above.

Membrane Type: Single Ply, KEE

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Min. 272 psi Mearlcrete, or min 240 psi Elastizell LWIC cast over min 2500 psi structural concrete

System Type A(2): One or more layers of insulation adhered with approved adhesive, membrane 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.

One or more layers of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
FTR-Value, FTR-Value A, FTR-Value H, ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3 Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
FTR-Value, FTR-Value A, FTR-Value H, ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3 Minimum: 1.5 " thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ICP Adhesives CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. 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.

Membrane:

FiberTite-FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered with FTR-390 adhesive at 1 gal. per 60 ft^2. Laps are sealed with 1.5-inch heat weld
Maximum Design Pressure: -67.5 psf (See General Limitation #9)

Or

FiberTite-FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered with FTR-290 adhesive at 1 gal/sq or FTR-490 water based adhesive at 100 ft^2/gal. Laps are sealed with 1.5-inch heat weld
Maximum Design Pressure: -105 psf (See General Limitation #9)

Or

FiberTite, FiberTite-SM, FiberTite-XT, FiberTite-XTreme, Style 80 or Style 80-M roof cover adhered with FTR-190e Bonding Adhesive applied at a rate of 1 gal/sq. to the back side of the membrane and to the substrate. Laps are sealed with 1.5-inch heat weld
Maximum Design Pressure: -180 psf for Elastizell (See General Limitation #9)
Maximum Design Pressure: -210 psf for Mearlcrete (See General Limitation #9)

Maximum Design Pressure: See Membrane Options Above

Membrane Type: Single Ply, KEE

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Min. 272 psi Mearlcrete, or min 240 psi Elastizell LWIC cast over min 18-22 ga, 33 ksi steel deck

System Type A(3): One or more layers of insulation adhered with approved adhesive, membrane 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.

One or more layers of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
FTR-Value, FTR-Value A, FTR-Value H, ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3 Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft^2
FTR-Value, FTR-Value A, FTR-Value H, ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3 Tapered	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ICP Adhesives CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. 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.

Membrane: FiberTite–FB, FiberTite-XT FB, FierTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered with hot asphalt at 25 lbs/sq., with FTR-290 adhesive at 1 gal/sq. or with FTR-390 adhesive at 1 gal. per 60 ft^2 or FTR-490 water based adhesive at 100 ft^2/gal.. Laps are sealed with 1.5-inch heat weld.
Maximum Design Pressure: -105.0 psf (See General Limitation #9)

Or

FiberTite, FiberTite-SM, FiberTite-XT, FiberTite-XTreme, Style 80 or Style 80-M roof cover adhered with FTR-190e Bonding Adhesive applied at a rate of 1 gal/sq. to the back side of the membrane and to the substrate. Laps are sealed with 1.5-inch heat weld.
Maximum Design Pressure: -117.0 psf (See General Limitation #9)

Maximum Design Pressure: Roof Cover/Insulation Maximum Pressure per Memebrane Option Above. (See General Limitation #9)

Refer to LWIC Deck manufacturer's current NOA for maximum design pressure in steel deck applications.

Membrane Type:	Single Ply, KEE
Deck Type 4I:	Lightweight Concrete, Insulated
Deck Description:	Min. 272 psi Mearlcrete, or min 240 psi Elastizell LWIC cast over min 2500 psi structural concrete
System Type A(4):	One or more layers of insulation adhered with approved adhesive, membrane 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.

One or more layers of the following insulations:

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Insulfoam EPS **Minimum: 1.5" thick**	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board **Minimum: ¼ " thick**	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ICP Adhesives CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. 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.

Membrane:	FiberTite, FiberTite-SM, FiberTite-XT, FiberTite-XTreme, Style 80 or Style 80-M roof cover adhered with FTR-190e Bonding Adhesive applied at a rate of 1 gal/sq. to the back side of the membrane and to the substrate. Laps are sealed with 1.5-inch heat weld. Or FiberTite-FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FM or Style 80-M FB roof cover adhered with hot asphalt at 25 lbs/sq. or FTR-490 water based adhesive at 100 ft^2/gal. Laps are sealed with 1.5-inch heat weld.
Maximum Design Pressure:	-180 psf (See General Limitation #9)

Membrane Type:	Single Ply, KEE
Deck Type 4I:	Lightweight Concrete, Insulated
Deck Description:	Min. 272 psi Mearlcrete, or min 240 psi Elastizell LWIC cast over min 2500 psi structural concrete
System Type A(5):	One or more layers of insulation adhered with approved adhesive, membrane 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.

One or more layers of the following insulations:

Base Insulation Layer (Optional)	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
FTR-Value, FTR-Value A, FTR-Value H, ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3 or Insulfoam EPS Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum: ¼ " thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ICP Adhesives CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. 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.

Membrane: FiberTite, FiberTite-SM, FiberTite-XT, FiberTite-XTreme, Style 80 or Style 80-M roof cover adhered with FTR-190e Bonding Adhesive applied at a rate of 1 gal/sq. to the back side of the membrane and to the substrate. Laps are sealed with 1.5-inch heat weld.

Or

FiberTite-FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered with hot asphalt at 25 lbs/sq. or FTR-490 water based adhesive at 100 ft^2/gal. Laps are sealed with 1.5-inch heat weld.

Maximum Design Pressure: -180.0 psf for Elastizell (See General Limitation #9)
-240.0 psf for Mearlcrete (See General Limitation #9)

Membrane Type: Single Ply, KEE

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Min. 240 psi Elastizell LWIC cast over min 18-22ga, 33 ksi steel deck

System Type A(6): One or more layers of insulation adhered with approved adhesive, membrane 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.

One or more layers of the following insulations:

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft^2
FTR-Value, FTR-Value A, FTR-Value H, ACFoam-II, Multi-Max FA-3, H-Shield, ENRGY 3, Insulfoam EPS		
Minimum: 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board		
Minimum: ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in ICP Adhesives CR-20 applied in continuous 3-inch ribbons spaced 12" o.c. 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.

Membrane: FiberTite, FiberTite-SM, FiberTite-XT, FiberTite-XTreme, Style 80 or Style 80-M roof cover adhered with FTR-190e Bonding Adhesive applied at a rate of 1 gal/sq. to the back side of the membrane and to the substrate. Laps are sealed with 1.5-inch heat weld.

Or

FiberTite-FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FBroof cover adhered with hot asphalt at 25 lbs/sq. or FTR-490 water based adhesive at 100 ft^2/gal. Laps are sealed with 1.5-inch heat weld.

Maximum Design Pressure: Roof Cover/Insulation Maximum Pressure
-180.0 psf for Elastizell (See General Limitation #9)

Refer to LWIC Deck manufacturer's current NOA for maximum design pressure in steel deck applications.

Membrane Type:	Single Ply, KEE
Deck Type 4:	Lightweight Concrete, Non-Insulated
Deck Description:	Minimum 228 psi, Elastizell cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an optional minimum 1" thick Holey Board and a minimum 2" thick top coat over steel deck (see steel deck description below).
System Type E(1):	Membrane mechanically attached to steel deck.

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.

Steel Deck Description:	Minimum 18-22 ga. Type B, Grade 80 steel decking placed over minimum 0.25" thick structural supports having maximum 5 ft spans. Deck shall be anchored with min. 5/8" puddle welds or ITW Buildex Traxx/4 or Traxx/5 fasteners spaced at maximum 6" o.c. at supports. Deck side laps shall be secured with ITW Buildex Traxx/1 fasteners spaced at a maximum 18" o.c. **This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**
Vapor Barrier: (Optional)	Any UL or FM approved vapor barrier applied to the roof deck.
Fire Barrier: (Optional)	Min. ¼" DensDeck or DensDeck Prime attached with 4 fasteners per 4' x 8' sheet.
Membrane:	FiberTite, FiberTite-SM, FiberTite-XT, FiberTite-XTreme, Style 80 or Style 80-M roof cover attached through lightweight concrete to the steel deck using FTR Magnum fasteners and plates spaced 12" o.c. through the tabs spaced 51" o.c. Laps are sealed with 1.5-inch heat weld.
Maximum Design Pressures:	-75 psf (See General Limitation #7.)

Membrane Type:	Single Ply, KEE
Deck Type 4:	Lightweight Concrete, Non-Insulated
Deck Description:	Minimum 228 psi, Elastizell cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an optional minimum 1" thick Holey Board and a minimum 2" thick top coat over min. 2500 psi concrete deck or steel deck (see steel deck description below).
System Type E(2):	Membrane mechanically attached to steel/concrete deck.

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.

Steel Deck Description:	Minimum 22 ga., type B, Grade 80 steel decking placed over minimum 0.25" thick structural supports having maximum 5 ft spans. Deck shall be anchored with min. 5/8" puddle welds or ITW Buildex Traxx/4 or Traxx/5 fasteners spaced at maximum 6" o.c. at supports. Deck side laps shall be secured with ITW Buildex Traxx/1 fasteners spaced at a maximum 18" o.c. **This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**
Vapor Barrier: (Optional)	Any UL or FM approved vapor barrier applied to the roof deck.
Fire Barrier: (Optional)	Min. ¼" DensDeck or DensDeck Prime attached with 4 fasteners per 4' x 8' sheet.
Membrane:	FiberTite, FiberTite-SM, FiberTite-XT, FiberTite-XTreme, Style 80 or Style 80-M roof cover attached through the presecured insulation to the deck using FTR Magnum fasteners and plates spaced 6" o.c. through the tabs spaced a maximum of 51" o.c. Laps are sealed with 1.5-inch heat weld.
Maximum Design Pressures:	-75 psf (See General Limitation #7)

Membrane Type: Single Ply, KEE

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Minimum 190 psi, Elastizell cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by minimum 1" thick Holey Board and a minimum 2" thick top coat over steel deck (see steel deck description below).

System Type F(1): Membrane adhered to deck.

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.

Steel Deck Description: Minimum 22 ga., Type B, Grade 33 vented steel deck placed over structural supports having maximum 6 ft spans. Deck shall be anchored with min. 5/8" puddle welds at each flute along intermediate supports. Deck side laps secured 24" o.c. with 14x7/8 HWH fasteners.

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

Membrane: FiberTite FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover spatter-applied at a rate of 3.75 lbs/sq. with ICP Adhesives CR-20. The outside 1.5" of the lap is heat welded.

Or

FiberTite–FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered to the insulation with approved asphalt at 20-25 lbs./sq. or FTR-290 solvent adhesive at 1 gal. per 100 ft^2 or FTR-390 asphalt based adhesive at 90-100 ft^2/gal. or FTR-490 water based adhesive at 100 ft^2/gal. The outside 1.5" of the lap is heat welded.

Maximum Design Pressure: -45 psf; (See General Limitation #9.)

Membrane Type: Single Ply, KEE

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Minimum 317 psi, Mearlcrete cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an optional minimum 1" thick Apache Corrugated EPS Board and a minimum 2" thick top coat over steel deck (see steel deck description below).

System Type F(2): Membrane adhered to deck.

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.

Steel Deck Description: Minimum 22 ga., type B, Grade 33 steel decking placed over minimum 0.25" thick structural supports having maximum 5 ft spans. Deck shall be anchored with min. 5/8" puddle welds or Traxx/4 or Traxx/5 fasteenrs spaced at maximum 6" o.c. at supports. Deck side laps shall be secured with ITW Buildex Traxx/1 fasteners spaced at a maximum 18" o.c.

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

Treatment: Polyvinyl Alcohol (PVA) applied to the deck top surface when walkable.

Membrane: FiberTite–FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered to the insulation with approved asphalt at 20-25 lbs./sq., FTR-290 solvent adhesive at 1 gal. per 100 ft^2 or FTR-390 asphalt based adhesive at 1 gal. per 60 ft^2 or FTR-490 water based adhesive at 100 ft^2/gal. The outside 1.5" of the lap is heat welded.

Maximum Design Pressure: -67.5 psf; (See General Limitation #9.)

Membrane Type: Single Ply, KEE

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Minimum 390 psi, Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture with a minimum 1/8" slurry coat followed by an optional minimum 1" thick Holey Board and a minimum 2" thick top coat over steel deck. (see steel deck description below). After setting, Celcore PVA Curing Compound is applied at a minimum rate of 200 ft^2/gal.

System Type F(3): Membrane adhered to deck.

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.

Structural Deck Description: Min, 2500 psi Structural Concrete or minimum 22 ga., Type BV, G-90 ASTM A653, Grade 40 steel deck placed over structural supports at 6 ft spans, attached with 5/8" puddle welds spaced 6" o.c. Deck side laps secured 18" o.c. with #12-24x7/8 HWH fasteners.

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

Treatment: Celcore S-1 Deck Preparation was spatter-applied to steel deck and broomed to form a 1/16" thick film.

Membrane: FiberTite FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover spatter-applied at 3.75 lbs/sq with ICP Adhesives CR-20. The outside 1.5" of the lap is heat welded.

Or

FiberTite-FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered with FTR 290, FTR 390 or FTR 490 adhesives at 1 gal./sq. The outside 1.5" of the lap is heat welded.

Maximum Design Pressure: -127.5 psf; (See General Limitation #9.)

Membrane Type:	Single Ply, KEE
Deck Type 4:	Lightweight Concrete, Non-insulated
Deck Description:	Minimum 200 psi, min. 36 lb/ft^3 wet cast density, Celcore Cellular Concrete applied with a minimum 1/8" slurry coat followed by an optional minimum 1" thick Holey Board and a minimum 2" thick top coat over min 2500 psi. structural concrete or plank. After setting, Celcore PVA Curing Compound is applied at a minimum rate of 300 ft^2/gal.
System Type F(4):	Membrane adhered to deck.

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.

Vapor Barrier: (Optional)	Any approved asphaltic vapor barrier.
Membrane:	FiberTite–FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered to the insulation with FTR-290 solvent adhesive at 1 gal. per 75 ft^2 applied to substrate or FTR 390 adhesive at 2 gal./sq. or FTR-490 water based adhesive at 100 ft^2/gal. Membrane rolled in with weighted roller. Laps are sealed with 1.5-inch heat weld.
Maximum Design Pressure:	-135.0 psf; (See General Limitation #9.)

Membrane Type:	Single Ply, KEE
Deck Type 4:	Lightweight Concrete, Non-insulated
Deck Description:	Minimum 200 psi, min. 36 lb/ft^3 wet cast density, Celcore Cellular Concrete, minimum 2" thick layer over min 2500 psi. structural concrete or plank. After setting, Celcore PVA Curing Compound is applied at a minimum rate of 300 ft^2/gal.
System Type F(5):	Membrane adhered to deck.

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.

Vapor Barrier: (Optional)	Any approved asphaltic vapor barrier.
Membrane:	FiberTite–FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered to the insulation with FTR-290 solvent adhesive at 1 gal. per 75 ft^2 applied to substrate or FTR 390 adhesive at 2 gal./sq. or FTR-490 water based adhesive at 100 ft^2/gal. Membrane rolled in with weighted roller. Laps are sealed with 1.5-inch heat weld.
Maximum Design Pressure:	-135.0 psf; (See General Limitation #9.)

Membrane Type: Single Ply, KEE

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Minimum 390 psi, Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture is poured with a minimum 1/8" slurry coat followed by an optional minimum 1" thick Holey Board and a minimum 2" thick top coat over min 2500 psi. structural concrete After setting, Celcore PVA Curing Compound is applied at a minimum rate of 200 ft^2/gal..

System Type F(6): Membrane adhered to deck.

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.

Membrane: FiberTite FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover spatter-applied at a rate of 3.75 lbs/sq. with ICP Adhesives CR-20. The outside 1.5" of the lap is heat welded.

Or

FiberTite-FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered with FTR 290, FTR 390 or FTR 490 adhesives at 1 gal./sq. The outside 1.5" of the lap is heat welded.

Maximum Design Pressure: -172.5 psf; (See General Limitation #9.)

Membrane Type:	Single Ply, KEE
Deck Type 4:	Lightweight Concrete, Non-insulated
Deck Description:	Minimum 300 psi approved Elastizell Cellular Lightweight Concrete over min 2500 psi. structural concrete.
System Type F(7):	Membrane adhered to deck.

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.

Treatment:	Top surface of lightweight concrete shall be sealed with sodium silicate or PVA.
Membrane:	FiberTite-FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered to the sealed surface of the lightweight concrete in FTR-390 Adhesive at 1 gal./sq. or FTR-490 water based adhesive at 100 ft^2/gal. The outside 1.5" of the lap is heat welded.
Maximum Design Pressure:	-272.5 psf; (See General Limitation #9.)

Membrane Type: Single Ply, KEE

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Minimum 300 psi approved Elastizell Cellular Lightweight Concrete over min 2500 psi structural concrete.

System Type F(8): Membrane adhered to deck.

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.

Treatment: Top surface of lightweight concrete shall be sealed with sodium silicate or PVA.

Membrane: FiberTite FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered to the sealed surface of the lightweight concrete in FTR-290 Adhesive at 1 gal./sq. or FTR-490 water based adhesive at 100 ft^2/gal. The outside 1.5" of the lap is heat welded.

Maximum Design Pressure: -302.5 psf; (See General Limitation #9.)

Membrane Type:	Single Ply, KEE
Deck Type 4:	Lightweight Concrete, Non-insulated
Deck Description:	Minimum 400 psi, Concrecel Lightweight Concrete applied with a minimum ¼" thick slurry coat followed by an optional minimum 1" thick Apache Holey Board and a minimum 2.25" thick top coat over min 2500 psi structural concrete. Apply Concrecel Curing Compound applied to the deck top surface when walkable, at a rate of 600 ft^2/gal.
System Type F(9):	Membrane adhered to deck.

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.

Vapor Barrier: (Optional)	Any approved asphaltic vapor barrier.
Membrane:	FiberTite–FB, FiberTite-XT FB, FiberTite-SM FB, Style 80 FB or Style 80-M FB roof cover adhered to the insulation with FTR-290 solvent adhesive at 1 gal. per 75 ft^2 applied to substrate. Membrane rolled in with weighted roller. The outside 1.5" of the lap is heat welded.
Maximum Design Pressure:	-375.0 psf; (with asphaltic vapor barrier) (See General Limitation #9) -405.0 psf; (no asphaltic vapor barrier) (See General Limitation #9.)

LIGHTWEIGHT INSULATING CONCRETE 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 117 and/or 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.
3. For Systems where specific lightweight insulating concrete is referenced consult current lightweight insulating concrete NOA for specific deck construction and limitations. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.

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 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