



**BUILDING CODE COMPLIANCE OFFICE**  
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**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**Seaman Corporation**  
**1000 Venture Boulevard**  
**Wooster ,OH 44691**

Your application for Notice of Acceptance (NOA) of:

**Fibertite Single Ply Roof Systems over Concrete Decks**

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

**ACCEPTANCE NO.: 00-1208.01**  
**EXPIRES: 01/04/2006**

Raul Rodriguez  
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL**  
**CONDITIONS**  
**BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

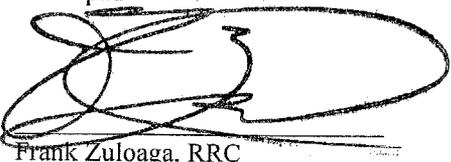
**APPROVED: 01/04/2001**

**ROOFING SYSTEM APPROVAL**

Category: Roofing  
Sub-Category: Single Ply  
Material: Thermoplastic  
Deck Type: Concrete  
Maximum Design Pressure -572.5 psf  
Fire Classification: See General Limitation #1

Approval Date: **January 4, 2001**Expiration Date: **January 4, 2006****TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:**

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
FiberTite (33 mil)	56" x 100'	PA 114	thermoplastic, single ply membrane
FiberTite XT (45 mil)	53" x 100'		
	29" x 100'		
	28" x 100'		
	6" x 100'		
	20' x 64.5'		
	Assorted Pre-Fabricated widths and lengths		
FiberTite FB (40 mil Fleece Back)	54" x 80'	PA 114	thermoplastic, fleece-backed, single ply membrane
FTR Non-Reinforced	0.060" x 54" x 24'	PA 114	thermoplastic flashing accessory
FTR Cones	1" to 8"	PA 114	premolded "thermoplastic" pipe flashing
FTR Corners	2' x 2'	PA 114	premolded "thermoplastic" corner flashing (4 per unit)
FTR 101		proprietary	one part urethane sealant
FTR 201		proprietary	elastomeric (mastic) sealant
FTR 301		proprietary	Asphalt/urethane insulation adhesive
FTR 190		proprietary	two side "contact" bonding adhesive
FTR 290		proprietary	one side "substrate only" fleece back solvent based adhesive
FTR 390		proprietary	one side "substrate only" fleece back water based adhesive
FTR SL1		proprietary	one part "pourable" urethane sealant
FiberClad	48" x 120"	n/a	polymeric coated G-90 galvanized steel or stainless steel
Tuff Trac	5/32" x 36" x 40" 1/4" x 24" x 48"	n/a	vinyl walk way vinyl protection pad



Frank Zuloaga, RRC  
Roofing Product Control Examiner

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
FTR Term. Bar	¼" x 1" x 10'	PA 114	aluminum "membrane" termination and/or retainer bar
FTR Term. Bar Fasteners	#14 x 1" SS-A ¼" x 1¼"	PA 114	stainless steel screws zinc expansion anchors
FTR Barbed Plate	2" diameter	PA 114	barbed round metal stress plate for membrane attachment
FTR XL Plate	2-3/8" diameter	PA 114	barbed round extra load metal stress plate for membrane attachment
FTR MAGNUM Plate	2.5" x 1.5"	PA 114	barbed rectangular 18 ga. metal stress plate for membrane attachment.
FTR Plastic Insulation Plate	3" diameter	PA 114	locking plastic insulation stress plate
FTR Metal Insulation Plate	3" diameter	PA 114	round metal insulation stress plate
FTR #14 Fastener	various	PA 114	#14 membrane/insulation fastener
FTR MAGNUM Fastener	various	PA 114	#15 membrane/insulation fastener
FTR Spike	various	PA 114	hammer in "non-threaded" membrane / insulation fastener for concrete decks
FTR-Value	various	PA 110	Polyisocyanurate roof insulation

**TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:**

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Millox	various	PA 110	polyisocyanurate foam / wood fiber composite insulation	Apache Products Co. (with current NOA)
White Line	various	PA 110	polyisocyanurate foam insulation	Apache Products Co. (with current NOA)
ACFoam Composite	various	PA 110	polyisocyanurate foam / perlite composite insulation	Atlas Energy Products (with current NOA)
ACFoam II	various	PA 110	polyisocyanurate foam insulation	Atlas Energy Products (with current NOA)
HyTec	various	PA 110	polyisocyanurate foam insulation	Celotex Corp. (with current NOA)
HyTherm Composite	various	PA 110	polyisocyanurate foam / wood fiber composite insulation	Celotex Corp. (with current NOA)
E'NERG'Y-2	various	PA 110	polyisocyanurate foam insulation	Johns Manville (with current NOA)

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
E'NRG'Y-2 Composite	various	PA 110	polyisocyanurate foam / perlite composite insulation	Johns Manville (with current NOA)
Toprock	4' x 4'	PA 110	basalt wool insulation with glass fiber scrim facer.	Roxul (Rockwool Intl) (with current NOA)
Multi-Max Multi-Max FA	various	PA 110	polyisocyanurate foam insulation	R-Max, Inc. (with current NOA)
Thermarroof Composite	various	PA 110	polyisocyanurate foam / perlite composite insulation	R-Max, Inc. (with current NOA)
GAFTEMP Composite	various	PA 110	polyisocyanurate foam / perlite composite insulation	GAF (with current NOA)
FescoFoam, Fescore	various	PA 110	polyisocyanurate foam / perlite composite insulation	Johns Manville (with current NOA)
Celotherm	various	PA 110	perlite insulation	Celotex Corp. (with current NOA)
ConPerl	various	PA 110	perlite insulation	Conglas (with current NOA)
GAFTEMP Permalite	various	PA 110	perlite insulation	GAF Materials Corp. (with current NOA)
Fesco Board	various	PA 110	perlite insulation	Johns Manville (with current NOA)
Esgard	various	PA 110	wood fiberboard insulation	BPCO, Inc. (with current NOA)
Celotex Fiberboard	various	PA 110	wood fiberboard insulation	Celotex Corp. (with current NOA)
GAFTEMP Fiberboard	various	PA 110	wood fiberboard insulation	GAF Materials Corp. (with current NOA)
Huebert Fiberboard	various	PA 110	wood fiberboard insulation	Huebert, Inc. (with current NOA)
KopR Wood Fiber	various	PA 110	wood fiberboard insulation	Koppers Industries (with current NOA)
Olympic Standard	3" round	PA 114	3" round galvalume AZ55 steel plate	Olympic (with current NOA)

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Olympic Fastener #14	various	PA 114	Insulation fastener	Olympic (with current NOA)
Olympic Polypropylene	3.25" round	PA 114	Polypropylene insulation stress plate	Olympic (with current NOA)
Olympic ASAP	2" round	PA 114	Pre-Assembled membrane stress plate and fastener	Olympic (with current NOA)
HD Insul-Fixx Fastener	various	PA 114	Insulation fastener for use in steel and concrete decks	SFS Stadler (with current NOA)
Insul-Fixx S	3" round	PA 114	3" round galvalume AZ55 insulation stress plate	SFS Stadler (with current NOA)
Insul-Fixx P	3" round	PA 114	3" round polyethylene insulation stress plate	SFS Stadler (with current NOA)
Type X Gypsum	various		Fire resistant rated gypsum	generic
Dens-Deck	4' x 8'	PA 110	Gypsum board	Georgia-Pacific (with current NOA)
Insta-Stik Adhesive		PA 110	Insulation adhesive	Insta-Foam Products (with current NOA)
Rocroof		PA 110	Rockwool fire barrier	Roctex Oy Ab (with current NOA)

**EVIDENCE SUBMITTED:**

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corporation	Wind Resistance (Mechanically Attached)	J.I. #0X5A7.AM	03/03/93
		J.I. #1X5A8.AM	07/03/93
		J.I.# 0R8A9.AM	03/12/94
		J.I.#2Y0A4.AM	11/01/94
		J.I. #2Z8A4.AM	12/29/95
		(FMRC 4470 - PA 114)	
Factory Mutual Research Corporation	Wind and Fire Resistance (Fully Adhered)	J.I.# 0Y7A2.AM	11/28/94
		J.I. #1Y7A5.AM	12/29/95
		(FMRC 4470 - PA 114)	
Factory Mutual Research Corporation	Fire Resistance (Mechanically Attached)	J.I. #2X2A2.AM (FMRC 4470 - PA 114)	06/17/94

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corporation	Pull-Through Testing	J.I. #1Z2A5.AM (FMRC 4470 - PA 114)	01/12/96
Factory Mutual Research Corporation	Insulation Attachment Requirements	FM Approval Guide	Published Annually
Factory Mutual Research Corporation	Wind/Fire Resistance (Fleece Backed)	J.I. 1Z3A8.AM (FMRC 4470 - PA 114)	08/13/97
Factory Mutual Research Corporation	FM Letter for Approval Listing	FM Approval Guide	10/06/99
Factory Mutual Research Corporation	Wind Resistance Mechanically Fastened	J.I. #3003251 (FMRC 4470 - PA 114)	10/05/99
Factory Mutual Research Corporation	Wind Resistance Fully Adhered	J.I. #4D5A4.AM (FMRC 4470 - PA 114)	10/05/99
Factory Mutual Research Corporation	Wind Resistance Fully Adhered	J.I. #3002471 (FMRC 4470 - PA 114)	10/06/99
Underwriters Laboratories	Fire Classifications	Listing R-10117	Published Annually
Underwriters Laboratories	Fire Resistance Testing	95NK20862	11/17/95
Underwriters Laboratories	Fire Resistance Testing	94NK40647	10/15/94
Underwriters Laboratories	Fire Resistance Testing	95NK17212	08/21/98
Underwriters Laboratories	Fire Resistance Testing	94NK12810	8/11/98
Warnock Hersey	Fire Resistance Tests	495-R-0735	Published Annually
Trinity Engineering, Inc.	Dynamic Pull-Through Testing, PA 117(B)	#4730.12.95-1	12/03/95
Exterior Research & Design, LLC.	Uplift Resistance PA 114(C) & PA 114(D)	#4015.10.96-1	10/02/96
Exterior Research & Design, LLC.	Uplift Resistance PA 114(J)	#4006.07.97-1	10/02/96
Exterior Research & Design, LLC.	Uplift Resistance PA 114(D)	#4020.08.99-1	08/30/99



Frank Zuloaga, RRC  
Roofing Product Control Examiner

**APPROVED ASSEMBLIES**

**Deck Type 3I:** Concrete Decks, Insulated, New Construction, Reroof

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type A(1):** One or more layers of insulation adhered with approved asphalt.

**All General and System Limitations apply.**

<u>Insulation Base Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
One or more of the following:				
Approved Type(s):	FTR-Value, AC Foam II, Multi-Max F, H-Shield, E'NRG'Y-2			
Minimum: 1.5" x 4' x 4'	N/A	N/A	N/A	N/A
<u>Insulation Top Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
Approved Type(s):	FTR-Value, AC Foam II, Multi-Max F, H-Shield, E'NRG'Y-2			
Minimum: 1.5" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s):	Dens Deck			
Minimum: 1/4" x 4' x 8'	N/A	N/A	N/A	N/A

**Note:** Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. 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.

Vapor Retarder: Optional/Asphaltic Vapor Retarder.

Barrier: None.

Membrane: FiberTite or FiberTite XT roof cover adhered to the insulation with FTR-190 Bonding Adhesive applied at an application rate of 1 gal./sq. to the backside of the membrane and to the substrate  
or  
FiberTite 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<sup>2</sup> or FTR-390 asphalt based adhesive at 1 gal. per 60 ft<sup>2</sup>

Maximum Design Pressure: -240 psf; (See General Limitation #9.)

Maximum Fire Classification: See General Limitation #1.

Maximum Slope: See General Limitation #1.



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Roofing Product Control Examiner

**Deck Type 3I:** Concrete Decks, Insulated, New Construction, Reroof

**Deck Description:** 2500 psi structural concrete or concrete plank

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

**All General and System Limitations apply.**

<u>Insulation Base Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
One or more of the following: Approved Type(s):	FTR-Value, AC Foam II, Multi-Max F, H-Shield, E'NRG'Y-2 (top insulation layer Optional)			
Minimum: 1.5" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s):	min. 1.25 pcf expanded polystyrene (requires top layer of insulation)			
Minimum: 1.5" x 4' x 4'	N/A	N/A	N/A	N/A
<u>Insulation Top Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
Approved Type(s):	FTR-Value, AC Foam II, Multi-Max F, H-Shield, E'NRG'Y-2 (required if EPS board used as base layer.)			
Minimum: 1.5" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s):	Dens Deck (required if EPS board used as a base layer)			
Minimum: 1/4" x 4' x 8'	N/A	N/A	N/A	N/A

**Note:** Concrete deck may be primed or unprimed. All insulation shall be adhered to the deck in 3/4" to 1" wide beads of FTR 301 Adhesive, 12" o.c. or 3/4" to 1" wide beads of Insta-Stik Adhesive, 12" o.c.. Refer to Roofing Application Standard RAS 117 and insulation adhesive manufacturer's Roofing Component Product Control Approval for insulation attachment requirements. Insulations listed as base layer shall be used only as base layers with a top layer insulation installed as the final membrane substrate. A top layer insulation is required if EPS board is used as the base layer.

Vapor Retarder: None.

Barrier: None.

Membrane: FiberTite or FiberTite XT roof cover adhered to the insulation with FTR-190 Bonding Adhesive applied at an application rate of 1 gal./sq. to the backside of the membrane and to the substrate (*Meets -120 psf for Insta-Stik insulation adhesive. See General Limitation #9*)  
or  
FiberTite or FiberTite XT roof cover adhered to the insulation with FTR-190 Bonding Adhesive applied at an application rate of 1 gal./sq. to the backside of the membrane and to the substrate (*Meets -82.5 psf for FTR 301 insulation adhesive. See General Limitation #9*)  
or  
FiberTite 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<sup>2</sup> or FTR-390 asphalt based adhesive at 1 gal. per 60 ft<sup>2</sup>. (*Meets -90 psf for Insta-Stik insulation adhesive. See General Limitation #9*)  
or



FiberTite 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<sup>2</sup> or FTR-390 asphalt based adhesive at 1 gal. per 60 ft<sup>2</sup>. (*Meets -82.5 psf for FTR 301 insulation adhesive. See General Limitation #9*)

Maximum Design Pressure: *See above for application options*

Maximum Fire Classification: See General Limitation #1.

Maximum Slope: See General Limitation #1.



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Roofing Product Control Examiner

**Deck Type 3I:** Concrete Decks, Insulated, New Construction, Reroof

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type B:** Base layer of insulation mechanically attached, top layer adhered; membrane fully adhered

**All General and System Limitations apply.**

<u>Insulation Base Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
One or more layers of the following insulations:				
Approved Type(s):	FTR-Value, ACFoam II, Multi-Max FA, H-Shield, E'NRG'Y-2			
Minimum: 1.5" x 4' x 4'	#14 Insul-Fixx S/P	[3]	8	1:2 ft <sup>2</sup>
Minimum: 2.0" x 4' x 4'	#14 Insul-Fixx S/P	[3]	4	1:4 ft <sup>2</sup>

**Note:** Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Insulation Top Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
(Optional) one or more layers of the following:				
Approved Type(s):	FTR-Value, ACFoam II, Multi-Max FA, H-Shield, E'NRG'Y-2			
Minimum: 1.5" x 4' x 4'	N/A	N/A	N/A	N/A

**Note:** Apply top layer of insulation in a full mopping of any approved mopping hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup> or in ¾" to 1" wide beads of Insta-Stik Adhesive, 12" o.c. Refer to Roofing Application Standard RAS 117 and insulation adhesive manufacturer's Roofing Component Product Control Approval for insulation attachment requirements. Insulations listed as base layer shall be used only as base layers with an optional top layer insulation installed as the final membrane substrate.

**Vapor Retarder:** (Optional) Any UL or FMRC approved vapor retarder may be installed over the deck or the base layer of insulation.

**Barrier:** (Optional) ¼" Dens Deck applied to the base or top insulation layer in a full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./sq. or in ¾" to 1" wide beads of Insta-Stik Adhesive, 12" o.c. or Type X gypsum applied in ¾" to 1" wide beads of Insta-Stik Adhesive, 12" o.c.

**Membrane:** FiberTite or FiberTite XT roof cover adhered to the insulation with FTR-190 Bonding Adhesive applied at an application rate of 1 gal./sq. to the backside of the membrane and to the substrate.

or

FiberTite 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<sup>2</sup> or FTR-390 asphalt based adhesive at 1 gal. per 60 ft<sup>2</sup>.

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

**Maximum Fire Classification:** (See General Limitation #1.)

**Maximum Slope:** (See General Limitation #1.)



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Roofing Product Control Examiner

**Deck Type 3I:** Concrete Decks, Insulated, New Construction, Reroof

**Deck Description:** 2500 psi structural concrete.

**System Type C:** All layers of insulation simultaneously attached; membrane fully adhered.

**All General and System Limitations apply.**

<u>Insulation Base Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
(Optional) One or more layers of the following insulations:				
Approved Type(s):	FTR-Value, AC Foam II, Multi-Max FA, H-Shield, E'NRG'Y-2			
Minimum: 1.0" x 4' x 4'	N/A	N/A	N/A	N/A

**Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.**

<u>Insulation Top Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
Approved Type(s): FTR-Value, AC Foam II, Multi-Max FA, H-Shield, E'NRG'Y-2				
Minimum: 1.5" x 4' x 4'	FTR #14 S/P	[3]	8	1:2 ft <sup>2</sup>
Minimum: 2" x 4' x 8'	FTR #14 S/P	[3]	4	1:4 ft <sup>2</sup>
Approved Type(s): <b>Dens Deck</b>				
Minimum: ¼" x 4' x 8'	FTR #14 S	[4]	18	1:1.7 ft <sup>2</sup>
Minimum: ¼" x 4' x 8'	FTR #14 S/P	[4]	24	1:1.3 ft <sup>2</sup>

**Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The 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. (See Roofing Application Standard RAS 117 for fastening details.)**

**Vapor Retarder:** (Optional) Any UL or FMRC approved vapor retarder may be installed over the deck or the base layer of insulation.

**Barrier:** (Optional) See Top Insulation Layer, above.

**Membrane:** FiberTite or FiberTite XT roof cover adhered to the insulation with FTR-190 Bonding Adhesive applied at an application rate of 1 gal./sq. to the backside of the membrane and to the substrate  
or  
FiberTite 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<sup>2</sup> or FTR-390 asphalt based adhesive at 1 gal. per 60 ft<sup>2</sup>.

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

**Maximum Fire Classification:** See General Limitation #1.

**Maximum Slope:** See General Limitation #1.



**Deck Type 3I:** Concrete Decks, Insulated, New Construction, Reroof

**Deck Description:** 2500 psi structural concrete.

**System Type D:** Membrane mechanically attached over preliminary fastened insulation.

**All General and System Limitations apply.**

<u>Insulation Base or Top Layer</u>	<u>Fastener Type</u>	<u>Fastenening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
one or more layers of the following: Approved Type(s): Minimum: 1.5" x 4' x 4'	FTR-Value, AC Foam, Multi-Max, H-Shield, E'NRG'Y-2 N/A	N/A	N/A	N/A

**Note:** Top insulation layer shall have preliminary attachment at a density of two insulation fasteners per board for insulation boards having any one dimension no greater than 4 ft. and a minimum of four insulation fasteners per board for insulation boards having any one dimension greater than 8 ft. Composite insulation panels shall be placed with the polyisocyanurate side down.

**Vapor Retarder:** (Optional) Any UL or FMRC approved vapor retarder may be installed over the deck or the base layer of insulation.

**Barrier:** (Optional) 1/4" Dens Deck attached with 4 fasteners per 4' x 8' sheet, min. 3/4" Toprock attached with 2 fasteners per 4' x 4' sheet or RocTex Rocroof loose laid.

**Membrane:** FiberTite or FiberTite XT roof cover attached through the preliminary fastened insulation to the deck following one of the fastening methods specified below:

**Fastening:**

**(Option #1)** Fasten with FTR MAGNUM fasteners and FTR MAGNUM 18" o.c. through tabs spaced 51" o.c. *(Meets -45 psf See General Limitation #7.)*

**(Option #2)** Fasten with FTR MAGNUM fasteners and FTR MAGNUM 12" o.c. through tabs spaced 51" o.c. *(Meets -60 psf See General Limitation #7.)*

**(Option #3)** Fasten with FTR MAGNUM fasteners and FTR MAGNUM 6" o.c. through the top of the roof cover at maximum intervals of 104.5" Fastener rows are sealed by either welding a 6" cover strip or prefabricated 4.5" surface tab.(closed lap configuration) over the fasteners. The edge of the stripping and/or surface tabs shall be welded a minimum of 1". *(Meets -75 psf See General Limitation #7.)*

**Maximum Design Pressure:** See Anchor Sheet Fastening Options above.

**Maximum Fire Classification:** See General Limitation #1.

**Maximum Slope:** See General Limitation #1.

  
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Roofing Product Control Examiner

**Deck Type 3:** Concrete Decks, Non-insulated, New Construction, Reroof

**Deck Description:** 2500 psi structural concrete.

**System Type E:** Membrane mechanically attached to deck.

**All General and System Limitations apply.**

**Vapor Retarder:** (Optional) Any UL or FMRC approved vapor retarder may be installed over the deck or the base layer of insulation.

**Barrier:** (Optional) ¼" Dens Deck attached with 4 fasteners per 4' x 8' sheet, min. ¾" Toprock attached with 2 fasteners per 4' x 4' sheet or Roctex Rocroof loose laid.

**Membrane:** FiberTite or FiberTite XT roof cover attached through the preliminary fastened insulation to the deck following one of the fastening methods specified below:

**Fastening:** *(Option #1)* Fasten with FTR MAGNUM fasteners and FTR MAGNUM 18" o.c. through tabs spaced 51" o.c. *(Meets -45 psf See General Limitation #7.)*

*(Option #2)* Fasten with FTR MAGNUM fasteners and FTR MAGNUM 12" o.c. through tabs spaced 51" o.c. *(Meets -60 psf See General Limitation #7.)*

*(Option #3)* Fasten with FTR MAGNUM fasteners and FTR MAGNUM 6" o.c. through the top of the roof cover at maximum intervals of 104.5" Fastener rows are sealed by either welding a 6" cover strip or prefabricated 4.5" surface tab.(closed lap configuration) over the fasteners. The edge of the stripping and/or surface tabs shall be welded a minimum of 1". *(Meets -75 psf See General Limitation #7.)*

**Maximum Design Pressure:** *See Anchor Sheet Fastening Options above.*

**Maximum Fire Classification:** See General Limitation #1.

**Maximum Slope:** See General Limitation #1.



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**Deck Type 3:** Concrete Decks, Non-Insulated, New Construction, Reroof

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type F:** (Optional) Base sheet adhered with approved asphalt.

**All General and System Limitations apply.**

**Membrane:** FiberTite FB roof cover adhered to the primed concrete deck with approved asphalt at 20-25 lbs./sq. *(Meets -572.5 psf for hot asphalt. See General Limitation #9)*  
Or  
FTR 390 asphalt based adhesive at 1 gal per 60ft<sup>2</sup>. *(Meets -237.5 for FTR 390 application. See General Limitation #9)*  
Or  
FiberTite-FB roof cover adhered to concrete deck sealed with polyvinyl alcohol (PVA) with FTR 290 Adhesive. *(Meets -377 psf for FTR 290 application. See General Limitation #9)*

**Maximum Design Pressure:** *See above for application options.*

**Maximum Fire Classification:** See General Limitation #1.

**Maximum Slope:** See General Limitation #1.



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**CONCRETE DECK SYSTEM LIMITATIONS:**

- 1 The following assembly is approved to a maximum design pressure of **-90 psf\***. No substitutions shall be made.
- a. Deck: concrete
  - b. Insulations: Min. 1.0" thick Miami-Dade County Approved polyisocyanurate insulation presecured to the deck with Miami-Dade County Approved fasteners and plates.
  - c. Membrane: FiberTite TopSider system consisting of FiberTite or FiberTite XT attached using FTR MAGNUM Fasteners and FTR MAGNUM Plates spaced 6" o.c. through the top of the membrane at intervals of 104.5".
- \*Note:** The maximum design pressure limitation listed shall be applicable to the field area of the roof. Rational analysis or extrapolation in compliance with Roofing Application Standard RAS 137 is permitted for enhanced fastening of the membrane at elevated pressure zones (i.e., perimeters, extended corners, and corners).
- 2 The following assembly is approved to a maximum design pressure of **-75 psf\***. No substitutions shall be made.
- a. Deck: concrete
  - b. Insulations: Min. 1.0" thick Miami-Dade County Approved polyisocyanurate insulation presecured to the deck with Miami-Dade County Approved fasteners and plates.
  - c. Membrane: FiberTite or FiberTite XT roof cover attached through the presecured insulation to the deck using FTR MAGNUM fasteners and FTR MAGNUM plates 6" o.c. through the 3.5" head laps or fastening tabs spaced 51" o.c.
- \*Note:** The maximum design pressure limitation listed shall be applicable to the field area of the roof. Rational analysis or extrapolation in compliance with Roofing Application Standard RAS 137 is permitted for enhanced fastening of the membrane at elevated pressure zones (i.e., perimeters, extended corners, and corners).
- 3 The following assembly is approved to a maximum design pressure of **-420 psf\***. No substitutions shall be made.
- a. Deck: Primed concrete
  - b. Insulations: Min. ¼" thick Dens-Deck adhered in a full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./sq.
  - c. Membrane: FiberTite or FiberTite XT roof cover adhered to the Dens-Deck with FTR-190 Bonding Adhesive applied at an application rate of 1 gal./sp. To the backside of the membrane and to the substrate.



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**CONCRETE DECK SYSTEM LIMITATIONS:**

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.

**GENERAL LIMITATIONS:**

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each 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 Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform 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.)**

**NOTICE OF ACCEPTANCE STANDARD CONDITIONS**

- 1 Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
- 2 Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
- 3 Renewals of Acceptance will not be considered if:
  - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
  - b) The product is no longer the same product (identical) as the one originally approved;
  - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
  - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
- 4 Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
- 5 Any of the following shall also be grounds for removal of this Acceptance:
  - a) Unsatisfactory performance of this product or process;
  - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
- 6 The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
- 7 A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The copies need not be resealed by the engineer.
- 8 Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
- 9 This Acceptance contains pages 1 through 17.

**END OF THIS ACCEPTANCE**



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