



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Fibertite Single Ply Roof Systems over Wood 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 #03-0703.02 and consists of pages 1 through 11.
The submitted documentation was reviewed by Jorge Acebo.



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ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply
Material: Thermoplastic
Deck Type: Wood
Maximum Design Pressure -52.5 psf
Fire Classification: See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
FiberTite, XT, LX, SM, Xtreme	Various	TAS 114	Thermoplastic, single ply membrane
FiberTite FB	54" x 100'	TAS 114	Thermoplastic, fleece-backed, single ply membrane
FTR Non-Reinforced	0.060" x 54" x 24'	TAS 114	Thermoplastic flashing accessory
FTR Cones	1" to 8"	TAS 114	premolded "thermoplastic" pipe flashing
FTR Corners	2' x 2'	TAS 114	premolded "thermoplastic" corner flashing (4 per unit)
FTR 101		proprietary	one part urethane sealant
FTR 201		proprietary	elastomeric (mastic) sealant
FTR 401		proprietary	Asphalt/urethane 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

APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
FTR-Value	Isocyanurate Insulation	Seaman Corp.
ACFoam II	Isocyanurate Insulation	Atlas Roofing Corp.
Dens Deck	Silicon treated gypsum	G-P Products



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APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Sturdi-Top	Wood fiber insulation board.	G-P Products
H-Shield	Isocyanurate Insulation	Hunter Panels LLC
ENRGY 2, ENERGY 3, PSI-25	Isocyanurate Insulation	Johns Manville
Wood Fiberboard	Regular wood fiber insulation	Generic
High Density Wood Fiberboard	High Density Wood Fiber insulation board.	Generic
Perlite Insulation Board	Perlite Insulation	Generic
Type X Gypsum	Gypsum Wallboard	Generic
Multi-Max, FA	Polyisocyanurate foam insulation	Rmax, Inc.
Rocroof	Rockwool fire barrier	Tritex

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	FTR MAGNUM Fastener	Membrane fastener	Various	Seaman Corp.
2.	FTR MAGNUM Plate	Galvalume AZ50 stress plate	1.5" x 2.5"	Seaman Corp.
3.	Olympic Fasteners	Insulation and membrane fastener	Various	Olympic Mfg. Group
4.	Olympic Standard	Galvalume AZ55 stress plate	3" round	Olympic Mfg. Group
5.	Olympic Plastic Plastic	Plastic plates for fasteners.	3" round	Olympic Mfg. Group
6.	Insul-Fixx Fastener	Insulation fastener for steel and wood decks	Various	SFS Intec, Inc.
7.	Insul-Fixx S	Galvalume AZ55 stress plate	3" round	SFS Intec, Inc.
8.	Insul-Fixx P	Polyethylene stress plate	3" round	SFS Intec, Inc.

EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corp.	FMRC 4470	J.I.# 0R8A9.AM	03/12/94
		J.I. #2X2A2.AM	06/17/94
		J.I.#2Y0A4.AM	11/01/94
Factory Mutual Research Corp.	FMRC 4470	J.I.# 0Y7A2.AM	11/28/94
		J.I. #1Y7A5.AM	12/29/95



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<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corp.	FMRC 4470	J.I. #1Z2A5.AM	01/12/96
Factory Mutual Research Corp.	FMRC 4470	J.I. 1Z3A8.AM	08/13/97
Factory Mutual Research Corp.	FMRC 4470	J.I. #30003251	10/15/99
Factory Mutual Research Corp.	FMRC 4470	3009071	01/03/02
Factory Mutual Research Corp.	FMRC 4470	3014050	07/08/03
Underwriters Laboratories	Fire Resistance Testing	94NK40647	10/15/94
		95NK20862	11/17/95
		98NK12810	8/11/98
		98NK17212	8/21/98
Trinity Engineering, Inc.	TAS 117	#4730.12.95-1	12/03/95
Exterior Research & Design, LLC	TAS 114	#4015.10.96-1	10/02/96
Exterior Research & Design, LLC	TAS 114	#4006.07.97-1	10/02/96
Exterior Research & Design, LLC	TAS 114	#4006.08.00-1	07/17/00



APPROVED ASSEMBLIES

- Membrane Type:** Single Ply, Thermoplastic
- Deck Type II:** Wood, Insulated
- Deck Description:** ¹⁹/₃₂" or greater plywood or wood plank
- System Type B:** Base layer of insulation mechanically attached, optional top layer adhered; membrane fully adhered

All General and System Limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
FTR-Value, AC Foam II, Multi-Max FA, H-Shield, ENRGY-2		
Minimum 1.5" thick	6	1:2 ft²
Minimum 2" thick	6	1:4 ft²

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).

(Optional) Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
FTR-Value, AC Foam II, Multi-Max FA, H-Shield, ENRGY-2		
Minimum 1.5" thick	N/A	N/A

Note: Apply optional top layer of insulation in ¾" to 1" wide beads of FTR 401 Adhesive, 12" o.c., or a full mopping of any approved mopping hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² 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 Retarders:** (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.
- Barrier:** ¼" Dens Deck applied to the base or top insulation layer in ¾" to 1" wide beads of FTR 401 Insulation Adhesive, 12" o.c., or 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.



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 ft² or FTR-390 asphalt based adhesive at 1 gal. per 60 ft².

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



Membrane Type: Single Ply, Thermoplastic
Deck Type II: Wood, Insulated
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank
System Type C: All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
FTR-Value, ACFoam II, Multi-Max FA, H-Shield, ENRGY-2 Minimum 1" thick	N/A	N/A

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

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Dens Deck		
Minimum 1/4" thick	3	1:1.7 ft ²
Minimum 1/4" thick	3	1:1.3 ft ²

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

Barrier: 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 ft² or FTR-390 asphalt based adhesive at 1 gal. per 60 ft².

Maximum Design Pressure: -45 psf (See General Limitation #9)
 -50 psf (for Dens Deck fastened at 1:1.3ft²) (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic

Deck Type 1I: Wood, Insulated

Deck Description: ¹⁹/₃₂" or greater plywood or wood plank fastened to supports with wood screws at maximum spacing of 6" o.c.

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

All General and System Limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
FTR-Value, AC Foam II, Multi-Max FA, ENRGY-2 Minimum 1" thick	N/A	N/A
Wood Fiberboard Minimum 1/2" thick	N/A	N/A
Perlite Minimum 3/4" thick	N/A	N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum 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. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

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

Barrier: 1/4" Dens Deck attached with 4 fasteners per 4' x 8' sheet or Tritex Rocroof or 3 plies of Elk VersaShield loose laid.

Membrane: FiberTite, FiberTite-XT, FiberTite-SM or FiberTite-Xtreme roof cover attached through the preliminary fastened insulation/barrier to the deck following one of the fastening methods specified below:

Fastening: Fasten with FTR MAGNUM fasteners and FTR MAGNUM Plates 9" o.c. through tabs spaced 51" o.c.

Maximum Design Pressure: -52.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic

Deck Type 1I: Wood, Insulated

Deck Description: ¹⁹/₃₂" or greater plywood or wood plank

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

All General and System Limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
FTR-Value, ACfoam II, Multi-Max FA, ENRGY-2 Minimum 1.5" thick	N/A	N/A
Wood Fiberboard Minimum 1/2" thick	N/A	N/A
Perlite Minimum 3/4" thick	N/A	N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum 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. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

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

Barrier: 1/4" Dens Deck attached with 4 fasteners per 4' x 8' sheet or Tritex Rocroof or 3 plies of Elk VersaShield loose laid.

Membrane: FiberTite, FiberTite-XT, FiberTite-SM or FiberTite-Xtreme roof cover attached through the preliminary fastened insulation/barrier to the deck following one of the fastening methods specified below:

Fastening #1: Fasten with FTR MAGNUM fasteners and FTR MAGNUM Plates 18" o.c. through tabs spaced 51" o.c.

Fastening #2: Fasten with FTR MAGNUM fasteners and FTR MAGNUM Plates 12" o.c. through tabs spaced 72" o.c.

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



WOOD DECK SYSTEM LIMITATIONS:

- 1 A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

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. **(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.)**

END OF THIS ACCEPTANCE



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Membrane Type: Single Ply, Thermoplastic
Deck Type 1I: Wood, Non-Insulated
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank
System Type E: Membrane mechanically attached to deck.

All General and System Limitations apply.

Barrier: Install one of the following barrier options:
1. ¼" Dens Deck attached with 4 fasteners per 4' x 8' sheet, with joints staggered minimum 6" from plywood joints or min. ¾" Rockwool attached with 2 fasteners per 4' x 4' sheet
2. One layer of Tritex RocRoof over a mechanically attached type G2 fiberglass base sheet;
3. 5/8" gypsum attached to deck with four fastener per 4' x 8' board. Increase or decrease fasteners in conjunction with the board size, maintaining the fastener density, but in no case shall there be less than two fasteners.
4. One layer of Roctex Rocroof, loose laid.
5. 3 plies of Elk VersaShield loose laid.

Membrane: FiberTite or FiberTite XT roof cover attached to the deck following one of the fastening methods specified below:

Fastening #1: Fasten with FTR MAGNUM fasteners and FTR MAGNUM Plates 18" o.c. through tabs spaced 51" o.c.

Fastening #2: Fasten with FTR MAGNUM fasteners and FTR MAGNUM Plates 12" o.c. through tabs spaced 72" o.c.

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

