

Product Evaluation

RC610 | 0719

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: RC-610

Effective Date: July 1, 2019

Re-evaluation Date: July 2023

Product Name: FiberTite Single Ply Roofing Systems

Manufacturer: Seaman Corporation
1000 Venture Boulevard
Wooster, OH 44691
(800) 927-8578

General Description:

FiberTite is a KEE polyester reinforced single ply membrane.

FiberTite-FB is a KEE fleece-backed single ply membrane.

FiberTite-SM is a KEE polyester reinforced single ply membrane.

FiberTite-SM FB is a KEE fleece-backed polyester reinforced single ply membrane.

FiberTite-XT is a KEE polyester reinforced single ply membrane.

FiberTite-XT FB is a KEE fleece-backed polyester reinforced single ply membrane.

FiberTite-XTreme is a KEE polyester reinforced single ply membrane.

FiberTite-XTreme FB is a KEE fleece-backed polyester reinforced single ply membrane.

FTR 190e is a low VOC solvent based "contact" adhesive.

FTR 290 is a one side "substrate only" fleece back solvent based adhesive.

FTR 390 is a one side "substrate only" fleece back asphalt-based adhesive.

FTR 490 is a one side "substrate only" fleece back water-based adhesive.

FTR 601 is an elastomeric one step foamable adhesive.

Limitations:

General installation Requirements:

All IRC and the IBC requirements must be met, and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

New Roof Deck Attachment: The roof decking must meet or exceed the uplift requirements of the IRC or IBC along with applicable Texas Revisions adopted by TDI. Install as required for resistance to wind loads.

Roof Slope: The roof must have a minimum slope of 1/4":12.

Installation over an Existing Roof Covering (Roof Recover):

Inspection of Roof Covering Recover Installation: Inspection of the roof covering recover installation must be by a TDI appointed engineer. The TDI appointed engineer must determine if the roof framing can support the combined weight of the existing roof covering and the roof covering recover.

Roof Covering Replacement versus Roof Covering Recover: All existing roof coverings must be completely removed and a new roof covering installed if any of the following conditions occur:

- The existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for the additional roof covering.
- The existing roof has two or more applications of any type of roof covering.

Positive Drainage: The maximum allowable spacing of the roof framing must be as specified in the evaluation report.

Roof Deck: The existing roof deck must be as specified in each assembly listed in this evaluation report. The underside of the roof deck must be examined by the TDI appointed engineer for corrosion or deterioration. If corrosion exists, then it must be treated with a rust inhibitor. A fastener withdrawal resistance test must be conducted in the corroded or deteriorated area to

determine if the withdrawal resistance of the fastener complies with the minimum fastener requirements for the roof covering recover application. If the tested fastener fails to comply, then the deteriorated roof deck must be replaced.

Fastener Withdrawal Resistance: The fastener withdrawal resistance must be conducted in accordance with ANSI/SPRI FX-1-2006 and this evaluation report.

Fasteners used for the installation of the roof covering recover to the existing roof deck must be as specified in the Installation Instructions section of this evaluation report. For the withdrawal test, the fasteners must be installed in the existing roof deck as required for the roof covering recover installation. A TDI appointed engineer must review the data to verify the integrity of the existing roof deck and to compare results of the withdrawal tests with the minimum fastener requirements for the roof covering recover application.

The TDI appointed engineer must document all test results, including the locations on the roof surface where the tests are performed. A minimum of ten (10) withdrawal resistance tests are required for a roof area up to 50,000 square feet (a minimum of 50 percent of the tests must be conducted at the perimeter and the corners). Five additional tests are required for each additional 50,000 square feet of roof area or portion thereof (a minimum of 50 percent of the tests must be conducted at the perimeter and the corners). The tests must be located evenly spread across the surface of the roof. At least one withdrawal test must be performed on each roof level if the roof consists of multiple levels.

The withdrawal resistance of each tested fastener must comply with the minimum fastener requirements for the roof covering recover application. If a tested fastener fails to comply, then the TDI appointed engineer must examine that area for deterioration of the roof deck by removing the existing roof covering in that area. If that area of the roof deck has deteriorated, then the deteriorated roof deck must be replaced.

Existing Roof Covering Preparation: The existing roof covering must be prepared to receive the roof covering recover as specified in the Seaman Corp. installation instructions.

The existing roof covering surface must be dry and free of dirt and debris. If the existing roof covering is gravel surfaced, then the loose gravel must be completely removed. The surface of the existing roof covering must be relatively smooth. If the existing roof covering has blisters, buckles, ridges, folds, or other deformations, then they must be removed, and the surface patched to provide a smooth surface. If the existing roof covering has loose fasteners, then the existing membrane must be cut open, the loose fasteners removed, and the surface patched to provide a smooth surface.

Roof Covering Recover Installation: Installation of the roof covering recover must be specified in the Installation Instructions section of this evaluation report.

Note: Keep the manufacturer's installation instruction available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC and the Texas Revisions.

TABLE 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE					
Table	Deck	Assembly No.	Application	Description	Page
2A	Steel or Concrete	SC-1 through SC-3	New or Reroof (Tear-off)	Mechanically Attached Insulation, Bonded Roof Cover	8-9
2B	Steel	S-1 through S-4	New or Reroof (Tear-off)	Mechanically Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	9-11
2C	Steel	S-5 through S-9	New or Reroof (Tear-off)	Preliminarily Attached Insulation, Mechanically Attached Roof Cover	11-13
3A	Concrete	C-1 and C-2	New or Reroof (Tear-off)	Bonded Insulation, Bonded Roof Cover	13-14
3B	Concrete	C-3	New or Reroof (Tear-off)	Preliminarily Attached Insulation, Mechanically Attached Roof Cover	14
4A	Lightweight Concrete	LWC-1 through LWC-8	New or Reroof (Tear-off)	Bonded Insulation, Bonded Roof Cover	15-18
5A	Cementitious Wood Fiber	CWF-1 through CWF-3	New or Reroof (Tear-off)	Bonded Insulation, Bonded Roof Cover	19-20
6A	Gypsum	G-1 through G-7	New or Reroof (Tear-off)	Bonded Insulation, Bonded Roof Cover	20-24

The following notes apply to the systems outlined herein:

1. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted within this evaluation report.
2. Unless otherwise noted, fasteners and stress plates for insulation attachment must be as follows. Fasteners must be of sufficient length for the following engagements:
 - Steel Deck: #12 Standard Roofgrip or #14 Roofgrip with 3" Galvalume Plates, Dekfast DF-#12 or DF-#14 with Dekfast PLT-R-3, Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate or FiberTite Insulation Fasteners with FiberTite 3" Round Steel Insulation Plates. Minimum 3/4" steel penetration, engage the top flute of the steel deck.
 - Concrete Deck: #14 Roofgrip or CD-10 with 3" Galvalume Plates, Dekfast DF-#14 with Dekfast PLT-R-3, Trufast #14 HD or Trufast Fluted Concrete Nail with Trufast 3" Metal Insulation Plate or FiberTite Insulation Fasteners with FiberTite 3" Round Steel Insulation Plates. Minimum 1" embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions.

3. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application; the ribbons/beads must expand as noted in the manufacturer's published instructions.
- Hot Asphalt: Full mopping, 25-30 lbs/square.
 - FTR 601: Continuous 1/2 to 3/4" beads, 12" o.c.
 - Millennium One-Step Foamable Adhesive (OSFA): Continuous 1/2 to 3/4" beads, 12" o.c.
 - OMG OlyBond 500 (OB-500): Continuous 3/4 to 1" wide ribbons, 12-inch o.c. using PaceCart or SpotShot application devices
 - OMG OlyBond Adhesive (OB-A): Full Coverage at 1 gal/sq.
 - Polyset Board-Max: Continuous 2-1/2 to 3-1/2" ribbons, 12" o.c.
 - Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, adhesive ribbons shall be staggered from layer-to layer a distance of one-half the ribbon spacing.
 - Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.

4. For System Type D, where the roof cover is mechanically attached, Seaman Corporation offers two styles of attachment; **Open** and **Closed**, as detailed below:

Open Attachment	Closed Attachment
<p>"Open" attachment involves a 5" lap with a 1-1/2" factory-weld or field-weld. The stress plates and fasteners are installed with the centerline located 1-1/2" from the underlying membrane edge. Attachment is expressed as follows: Open: <maximum fastener spacing> x <maximum lap spacing>.</p>	<p>"Closed" attachment involves either a 6" lap with a 1-1/2" factory-weld with the stress plates and fasteners located along the centerline of the lap, followed by a 1-1/2" field-weld, or stress plate and fastener placement through the field of the membrane and covered with a 6" wide strip of FiberTite membrane with 1-1/2" field welds on both sides. Attachment is expressed as follows: Closed: <max fastener spacing> x <max row spacing>.</p>

5. For adhered membrane systems, side laps must be minimum 3" wide sealed with min. 1.5" heat weld. Membrane adhesive application rates are as follows:

Membrane	Adhesive	Application	Rate
FiberTite or FiberTite-XT	FTR 190e	Contact application	0.5 to 1.0 gal/sq.
FiberTite-FB	FTR 290	Wet lay	0.85 to 1.67 gal/sq.
FiberTite-FB	FTR 390	Wet lay	0.85 to 1.67 gal/sq.
FiberTite-FB	FTR 490	Wet lay	0.85 to 1.67 gal/sq.
FiberTite-FB	Hot Asphalt	Wet lay	20 to 25 lbs/sq.
FiberTite-FB	Polysat CR-20	Wet lay	Spatter-applied, full coverage per 3M instructions

6. Vapor barrier options for use over **structural concrete deck** followed by adhesive-applied insulation carry the following Maximum Design Pressure (MDP) limitations. The **lesser** of the MDP listings below vs. those in Table 3A applies.

Option #	Primer	Vapor Barrier		Insulation Adhesive	MDP (psf)
		Type	Application		
VB-1.	FTR SA Primer	VaporTite	Self-adhering	FTR-601, ribbons 12-inch o.c.	-180.0
VB-2.	Siplast PA 1125	One or two plies FiberTite-SBS Base or FiberTite-SBS 190 Base	Hot-asphalt	FTR-601, ribbons 12-inch o.c.	-202.5
VB-3.	None	One or two plies FiberTite-SBS TG Base or FiberTite-SBS 190 TG Base	Torch-applied	FTR-601, ribbons 12-inch o.c.	-232.5
VB-4.	ASTM D41	Soprema Elastophene Flam LS FR GR	Torch-applied	Polysat Board-Max, ribbons 12-inch o.c.	-169.0
VB-5.	ASTM D41	Soprema Elastophene Stick FR GR	Self-adhering	Polysat Board-Max, ribbons 12-inch o.c.	-250.0
VB-6.	ASTM D41	Soprema Elastophene LS FR GR	Hot-asphalt	Polysat Board-Max, ribbons 12-inch o.c.	-270.0
VB-7.	Siplast PA 1125	One or two plies FiberTite-SBS Base or FiberTite-SBS 190 Base	Hot-asphalt	Hot-asphalt, 25-30 lbs/square	-202.5
VB-8.	Siplast PA 1125	One or two plies FiberTite-SBS TG Base or FiberTite-SBS 190 TG Base	Torch-applied	Hot-asphalt, 25-30 lbs/square	-202.5

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 2A: FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 5)	
			Type	Fasteners	Attach	Type	Attach
#1 (SC-1)	Min. 22 ga., Type B, Grade 80 Steel or Minimum 2,500 psi Structural Concrete	(Optional) One or more layers, any combination, loose laid	Min. 5/8" SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft ²	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-290
Design Pressure (psf)		Base Insulation Attachment					
-82.5		Loose Laid					

TABLE 2A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 5)	
			Type	Fasteners	Attach	Type	Attach
#2 (SC-2)	Min. 22 ga., Type B, Grade 80 Steel or Minimum 2,500 psi Structural Concrete	(Optional) One or more layers, any combination, loose laid	Min. 5/8" SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 1.6 ft ²	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-390
Design Pressure (psf)		Base Insulation Attachment					
-82.5		Loose Laid					

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 2A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) STEEL OR CONCRETE DECK, MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer	Top Insulation Layer			Roof Cover (Note 5)	
			Type	Fasteners	Attach	Type	Attach
#3 (SC-3)	Min. 22 ga., Type B, Grade 80 Steel or Minimum 2,500 psi Structural Concrete	(Optional) One or more layers, any combination, loose laid	Min. 5/8" SECUROCK Gypsum- Fiber Roof Board	Note 2	1 per 1.6 ft ²	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite- XTreme FB	Hot Asphalt
Design Pressure (psf)		Base Insulation Attachment					
-82.5		Loose Laid					

TABLE 2B: FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 5)	
		Type	Fasteners	Attach	Type	Attach	Type	Attach
#4 (S-1)	Min. 22 ga., Type B, Grade 80 Steel	Min. 2" ACFoam-II, ENRGY-3, H- Shield, FTR- Value A, FTR- Value, FTR- Value H	Note 2 (#14 only)	1 per 1 ft ²	Min. 0.25" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	FTR 601, OSFA, Polysset Board- Max, 6" o.c.	FiberTite, FiberTite-XT	FTR-190e
Design Pressure (psf)		Top Insulation Attachment						
-90.0		FTR 601 or Millennium One-Step Foamable Adhesive applied in continuous 1/2 to 3/4" beads, 6" o.c. OR Polysset Board-Max applied in continuous 1/2 to 3/4" ribbons, 6" o.c.						

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 2B (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF)								
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 5)	
		Type	Fasteners	Attach	Type	Attach	Type	Attach
#5 (S-2)	Min. 22 ga., Type B, Grade 80 Steel	Min. 2" ACFoam-II, ENRGY-3, H- Shield, FTR- Value A, FTR- Value, FTR- Value H	Note 2 (#14 only)	1 per 1 ft ²	Min. 0.25" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	FTR 601, OSFA, Polyset Board- Max, 6" o.c.	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite- XTreme FB	FTR-290
Design Pressure (psf)		Top Insulation Attachment						
-90.0		FTR 601 or Millennium One-Step Foamable Adhesive applied in continuous ½ to ¾" beads, 6" o.c. OR Polyset Board-Max applied in continuous ½ to ¾" ribbons, 6" o.c.						

TABLE 2B (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF)								
STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 5)	
		Type	Fasteners	Attach	Type	Attach	Type	Attach
#6 (S-3)	Min. 22 ga., Type B, Grade 80 Steel	Min. 2" ACFoam-II, ENRGY-3, H- Shield, FTR- Value A, FTR- Value, FTR- Value H	Note 2 (#14 only)	1 per 1 ft ²	Min. 0.25" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	FTR 601, OSFA, Polyset Board- Max, 6" o.c.	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite- XTreme FB	Hot Asphalt
Design Pressure (psf)		Top Insulation Attachment						
-90.0		FTR 601 or Millennium One-Step Foamable Adhesive applied in continuous ½ to ¾" beads, 6" o.c. OR Polyset Board-Max applied in continuous ½ to ¾" ribbons, 6" o.c.						

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 2B (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) STEEL DECK, MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	Base Insulation Layer			Top Insulation Layer		Roof Cover (Note 5)	
		Type	Fasteners	Attach	Type	Attach	Type	Attach
#7 (S-4)	Min. 22 ga., Type B, Grade 80 Steel	Min. 2" ACFoam-II, ENRGY-3, H-Shield, FTR-Value A, FTR- Value, FTR-Value H	Note 2 (#14 only)	1 per 1 ft ²	Min. 0.25" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	FTR 601, OSFA, Polysset Board- Max, 6" o.c.	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite- XTreme FB	Polyset CR-20 (spatter- applied)
Design Pressure (psf)		Top Insulation Attachment						
-90.0		FTR 601 or Millennium One-Step Foamable Adhesive applied in continuous ½ to ¾" beads, 6" o.c. OR Polysset Board-Max applied in continuous ½ to ¾" ribbons, 6" o.c.						

TABLE 2C: FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER					
Assembly No.	Substrate	Insulation Layer	Roof Cover		
			Membrane	Fasteners	Attachment
#8 (S-5)	Min. 22 ga., Type B, Grade 33 Steel	Min. 1.5" thick, one or more layers, any combination	FiberTite, FiberTite-XT, FiberTite-SM, FiberTite- XTreme	FiberTite Magnum Fasteners with FiberTite Magnum Stress Plates or FiberTite Magnum-Plus Plates	Open: 12 x 69-inch
Design Pressure (psf)		Insulation Attachment			
-45.0		Preliminarily Attached			

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 2C (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER					
Assembly No.	Substrate	Insulation Layer	Roof Cover		
			Membrane	Fasteners	Attachment
#9 (S-6)	Min. 22 ga., Type B, Grade 80 Steel	Min. 1.5" thick, one or more layers, any combination	FiberTite, FiberTite-XT, FiberTite-SM, FiberTite-XTreme	FiberTite Magnum Fasteners with FiberTite Magnum Stress Plates or FiberTite Magnum-Plus Plates	Open: 12 x 95-inch
Design Pressure (psf)		Insulation Attachment			
-45.0		Preliminarily Attached			

TABLE 2C (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER					
Assembly No.	Substrate	Insulation Layer	Roof Cover		
			Membrane	Fasteners	Attachment
#10 (S-7)	Min. 22 ga., Type B, Grade 80 Steel	Min. 1.5" thick, one or more layers, any combination	FiberTite, FiberTite-XT, FiberTite-SM, FiberTite-XTreme	FiberTite Magnum Fasteners with FiberTite Magnum Stress Plates or FiberTite Magnum-Plus Plates	Open: 6 x 95-inch
Design Pressure (psf)		Insulation Attachment			
-52.5		Preliminarily Attached			

TABLE 2C (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER					
Assembly No.	Substrate	Insulation Layer	Roof Cover		
			Membrane	Fasteners	Attachment
#11 (S-8)	Min. 22 ga., Type B, Grade 33 Steel	Min. 1.5" thick, one or more layers, any combination	FiberTite, FiberTite-XT, FiberTite-SM, FiberTite-XTreme	FiberTite Magnum Fasteners with FiberTite Magnum Stress Plates or FiberTite Magnum-Plus Plates	Open: 6 x 69-inch
Design Pressure (psf)		Insulation Attachment			
-60.0		Preliminarily Attached			

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 2C (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) STEEL DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER					
Assembly No.	Substrate	Insulation Layer	Roof Cover		
			Membrane	Fasteners	Attachment
#12 (S-9)	Min. 22 ga., Type B, Grade 80 Steel	Min. 1.0" thick, one or more layers, any combination	FiberTite, FiberTite-XT, FiberTite-SM, FiberTite-XTreme	FiberTite Magnum Fasteners with FiberTite Magnum Stress Plates or FiberTite Magnum-Plus Plates	Closed: 6 x 104.5-inch
Design Pressure (psf)		Insulation Attachment			
-90.0		Preliminarily Attached			

TABLE 3A: FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER SEE NOTE 6 FOR VAPOR BARRIER OPTIONS							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#13 (C-1)	Min. 2,500 psi Structural Concrete	Min. 1.5" FTR-Value	Hot Asphalt	Min. 0.25" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-390, FTR-490
Design Pressure (psf)		Base and Top Insulation Attachment					
-232.5		Full mopping, 25-30 lbs./sq.					

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 3A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER SEE NOTE 6 FOR VAPOR BARRIER OPTIONS							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#14 (C-2)	Min. 2,500 psi Structural Concrete	Min. 1.5" FTR- Value	Hot Asphalt	Min. 0.25" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	FiberTite-FB, FiberTite- SM FB, FiberTite-XT FB, FiberTite-XTreme FB	Hot Asphalt
Design Pressure (psf)		Base and Top Insulation Attachment					
-232.5		Full mopping, 25-30 lbs./sq.					

TABLE 3B: FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CONCRETE DECK, PRELIMINARILY ATTACHED INSULATION, MECHANICALLY ATTACHED ROOF COVER					
Assembly No.	Substrate	Insulation Layer	Roof Cover		
			Membrane	Fasteners	Attachment
#15 (C-3)	Min. 2,500 psi Structural Concrete	Min. 1.0" thick, one or more layers, any combination	FiberTite, FiberTite-XT, FiberTite-SM, FiberTite- XTreme	FiberTite Magnum Fasteners or #14 Roofgrip fasteners with FiberTite Magnum Stress Plates or FiberTite Magnum-Plus Plates	Open: 6 x 51-inch
Design Pressure (psf)		Insulation Attachment			
-112.5		Preliminarily Attached			

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 4A: FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	LWC	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
			Type	Attach	Type	Attach	Type	Attach
#16 (LWC-1)	Min. 2,500 psi Structural Concrete	Min. 200 psi, min 2.0" thick Celcore or Mearlcrete	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, Multi-Max FA-3, FTR-Value A, FTR-Value, FTR-Value H	Polysset Board-Max	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, Multi-Max FA-3, FTR-Value A, FTR-Value, FTR-Value H	Polysset Board-Max	FiberTite, FiberTite-XT	FTR-190e
Design Pressure (psf)		Base and Top Insulation Attachment						
-210.0		Polysset Board-Max applied in continuous 3" ribbons, 12" o.c.						

TABLE 4A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	LWC	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
			Type	Attach	Type	Attach	Type	Attach
#17 (LWC-2)	Min. 2,500 psi Structural Concrete	Min. 200 psi, min 2.0" thick Mearlcrete	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, Multi-Max FA-3, FTR-Value A, FTR-Value, FTR-Value H	Polysset Board-Max	Min. 0.25" DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Polysset Board-Max	FiberTite, FiberTite-XT	FTR-190e
Design Pressure (psf)		Base and Top Insulation Attachment						
-240.0		Polysset Board-Max applied in continuous 3" ribbons, 12" o.c.						

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 4A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	LWC	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
			Type	Attach	Type	Attach	Type	Attach
#18 (LWC-3)	Min. 2,500 psi Structural Concrete	Min. 200 psi, min 2.0" thick Celcore or Mearlcrete	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, Multi-Max FA-3, FTR-Value A, FTR-Value, FTR-Value H	Polysset Board-Max	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, Multi-Max FA-3, FTR-Value A, FTR-Value, FTR-Value H	Polysset Board-Max	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-290
Design Pressure (psf)		Base and Top Insulation Attachment						
-105.0		Polysset Board-Max applied in continuous 3" ribbons, 12" o.c.						

TABLE 4A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	LWC	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
			Type	Attach	Type	Attach	Type	Attach
#19 (LWC-4)	Min. 2,500 psi Structural Concrete	Min. 200 psi, min 2.0" thick Mearlcrete	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, Multi-Max FA-3, FTR-Value A, FTR-Value, FTR-Value H	Polysset Board-Max	Min. 0.25" DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Polysset Board-Max	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-290
Design Pressure (psf)		Base and Top Insulation Attachment						
-240.0		Polysset Board-Max applied in continuous 3" ribbons, 12" o.c.						

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 4A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	LWC	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
			Type	Attach	Type	Attach	Type	Attach
#20 (LWC-5)	Min. 2,500 psi Structural Concrete	Min. 200 psi, min 2.0" thick Celcore or Mearlcrete	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, Multi-Max FA-3, FTR-Value A, FTR-Value, FTR-Value H	Polysset Board-Max	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, Multi-Max FA-3, FTR-Value A, FTR-Value, FTR-Value H	Polysset Board-Max	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-390, FTR-490
Design Pressure (psf)			Base and Top Insulation Attachment					
-105.0			Polysset Board-Max applied in continuous 3" ribbons, 12" o.c.					

TABLE 4A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	LWC	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
			Type	Attach	Type	Attach	Type	Attach
#21 (LWC-6)	Min. 2,500 psi Structural Concrete	Min. 200 psi, min 2.0" thick Mearlcrete	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, Multi-Max FA-3, FTR-Value A, FTR-Value, FTR-Value H	Polysset Board-Max	Min. 0.25" DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Polysset Board-Max	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-390, FTR-490
Design Pressure (psf)			Base and Top Insulation Attachment					
-240.0			Polysset Board-Max applied in continuous 3" ribbons, 12" o.c.					

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 4A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	LWC	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
			Type	Attach	Type	Attach	Type	Attach
#22 (LWC-7)	Min. 2,500 psi Structural Concrete	Min. 200 psi, min 2.0" thick Celcore	Min. 1.5" AC Foam-II, ENRGY 3, H-Shield, Multi-Max FA-3, FTR-Value A, FTR-Value, FTR-Value H	Polysset Board-Max	Min. 0.25" DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Polysset Board-Max	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	Hot Asphalt
Design Pressure (psf)		Base and Top Insulation Attachment						
-222.5		Polysset Board-Max applied in continuous 3" ribbons, 12" o.c.						

TABLE 4A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) LIGHTWEIGHT CONCRETE DECK, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Substrate	LWC	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
			Type	Attach	Type	Attach	Type	Attach
#23 (LWC-8)	Min. 2,500 psi Structural Concrete	Min. 200 psi, min 2.0" thick Mearlcrete	Min. 1.5" AC Foam-II, ENRGY 3, H-Shield, Multi-Max FA-3, FTR-Value A, FTR-Value, FTR-Value H	Polysset Board-Max	Min. 0.25" DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Polysset Board-Max	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	Hot Asphalt
Design Pressure (psf)		Base and Top Insulation Attachment						
-240.0		Polysset Board-Max applied in continuous 3" ribbons, 12" o.c.						

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 5A: FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CEMENTITIOUS WOOD FIBER DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#24 (CWF-1)	Tectum Plank	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, FTR- Value A, FTR-Value, FTR- Value H	FTR 601, OSFA, 12" o.c.	(Optional) Min. 0.25" DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	FTR 601, OSFA, 12" o.c.	FiberTite, FiberTite- XT	FTR-190e
Design Pressure (psf)		Base and Top Insulation Attachment					
-162.5		FTR 601 or Millennium One-Step Foamable Adhesive applied in continuous ¾" to 1" beads, 12" o.c.					

TABLE 5A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CEMENTITIOUS WOOD FIBER DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#25 (CWF-2)	Tectum Plank	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, FTR- Value A, FTR-Value, FTR- Value H	FTR 601, OSFA, 12" o.c.	(Optional) Min. 0.25" DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	FTR 601, OSFA, 12" o.c.	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-290, FTR-390, FTR-490
Design Pressure (psf)		Base and Top Insulation Attachment					
-162.5		FTR 601 or Millennium One-Step Foamable Adhesive applied in continuous ¾" to 1" beads, 12" o.c.					

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 5A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) CEMENTITIOUS WOOD FIBER DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#26 (CWF-3)	Tectum Plank	(Optional) Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, FTR-Value A, FTR-Value, FTR-Value H	FTR 601, OSFA, 12" o.c.	Min. 0.25" DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	FTR 601, OSFA, 12" o.c.	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-290, FTR-390, FTR-490, Hot Asphalt
Design Pressure (psf)		Base and Top Insulation Attachment					
-185.0		FTR 601 or Millennium One-Step Foamable Adhesive applied in continuous ¾" to 1" beads, 12" o.c.					

TABLE 6A: FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) GYPSUM DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#27 (G-1)	Existing poured gypsum or gypsum plank	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, FTR-Value A, FTR-Value, FTR-Value H	FTR 601, OSFA	Min. 0.25" DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	FTR 601, OSFA	FiberTite, FiberTite-XT	FTR-190e
Design Pressure (psf)		Base and Top Insulation Attachment					
-200.0		FTR 601 or Millennium One-Step Foamable Adhesive applied in continuous ½ to ¾" beads, 12" o.c.					

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 6A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) GYPSUM DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#28 (G-2)	Existing poured gypsum or gypsum plank	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, FTR-Value A, FTR-Value, FTR-Value H	Polyset Board-Max	Min. 0.25" DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Polyset Board-Max	FiberTite, FiberTite-XT	FTR-190e
Design Pressure (psf)		Base and Top Insulation Attachment					
-245.0		Polyset Board-Max applied in continuous 2 ¹ / ₂ to 3 ¹ / ₂ " ribbons, 12" o.c.					

TABLE 6A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) GYPSUM DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#29 (G-3)	Existing poured gypsum or gypsum plank	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, FTR-Value A, FTR-Value, FTR-Value H	FTR-601, OSFA	Min. 0.25" DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	FTR-601, OSFA	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-290
Design Pressure (psf)		Base and Top Insulation Attachment					
-200.0		FTR 601 or Millennium One-Step Foamable Adhesive applied in continuous ½ to ¾" beads, 12" o.c.					

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 6A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) GYPSUM DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#30 (G-4)	Existing poured gypsum or gypsum plank	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, FTR-Value A, FTR-Value, FTR-Value H	Polyset Board-Max	Min. 0.25" DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Polyset Board-Max	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-290
Design Pressure (psf)		Base and Top Insulation Attachment					
-245.0		Polyset Board-Max applied in continuous 2 ¹ / ₂ to 3 ¹ / ₂ " ribbons, 12" o.c.					

TABLE 6A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) GYPSUM DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#31 (G-5)	Existing poured gypsum or gypsum plank	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, FTR-Value A, FTR-Value, FTR-Value H	FTR-601, OSFA	Min. 0.25" DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	FTR-601, OSFA	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-390, FTR-490
Design Pressure (psf)		Base and Top Insulation Attachment					
-200.0		FTR 601 or Millennium One-Step Foamable Adhesive applied in continuous 1/2 to 3/4" beads, 12" o.c.					

TABLE 6A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) GYPSUM DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#32 (G-6)	Existing poured gypsum or gypsum plank	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, FTR-Value A, FTR-Value, FTR-Value H	Polyset Board-Max	Min. 0.25" DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Polyset Board-Max	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	FTR-390, FTR-490
Design Pressure (psf)		Base and Top Insulation Attachment					
-245.0		Polyset Board-Max applied in continuous 2 ¹ / ₂ to 3 ¹ / ₂ " ribbons, 12" o.c.					

Limitations and Installation: Installation must be in accordance with the following assemblies:

TABLE 6A (CONTINUED): FIBERTITE SINGLE PLY – NEW CONSTRUCTION OR REROOF (TEAR-OFF) GYPSUM DECK, BONDED INSULATION, BONDED ROOF COVER							
Assembly No.	Substrate	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 5)	
		Type	Attach	Type	Attach	Type	Attach
#33 (G-7)	Existing poured gypsum or gypsum plank	Min. 1.5" ACFoam-II, ENRGY 3, H-Shield, FTR-Value A, FTR-Value, FTR-Value H	Polyset Board-Max	Min. 0.25" DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board	Polyset Board-Max	FiberTite-FB, FiberTite-SM FB, FiberTite-XT FB, FiberTite-XTreme FB	Hot Asphalt
Design Pressure (psf)		Base and Top Insulation Attachment					
-245.0		Polyset Board-Max applied in continuous 2 ¹ / ₂ to 3 ¹ / ₂ " ribbons, 12" o.c.					