



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

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

## NOTICE OF ACCEPTANCE (NOA)

Viridian Systems, Inc.  
300 Southwest Avenue  
Tallmadge, OH. 44278

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

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

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

### DESCRIPTION: Viridian Modified Bitumen Roofing Systems over Steel Decks.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 43.

The submitted documentation was reviewed by Alex Tigera.



NOA No.: 13-0604.03  
Expiration Date: 12/31/14  
Approval Date: 12/26/13  
Page 1 of 43

## ROOFING SYSTEM APPROVAL

<b>Category:</b>	Roofing
<b>Sub-Category:</b>	Modified Bitumen
<b>Material:</b>	SBS
<b>Deck Type:</b>	Steel
<b>Maximum Design Pressure:</b>	-165 psf.

### 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>
Vented Base G (TG)	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced, modified bitumen membrane with 1" wide factory applied heat weldable strips on back side.
Vented Base P (TG)	39" x 33' (1 sq.)	ASTM D6164	Polyester reinforced, modified bitumen membrane with 1" wide factory applied heat weld strips on back side.
Pika Ply SS-3G	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Pika Ply 2.2 (FS)	39" x 49' (1.5 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film for heat weld bonding to the top side. Applied in hot asphalt, cold adhesive or ribbon stripping.
Pika Ply 180 (SF)	39" x 49' (1.5 sq.)	ASTM D6163	Glass reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied b heat welding or ribbon stripping (after removal of plastic burn-off film).
Pika Ply SS-3G (TG)	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Pika Ply Base (TG)	39" x 49' (1.5 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane covered on both sides with a plastic burn-off film. Applied by heat welding.
Pika Ply 180 (S)	39" x 49' (1.5 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Pika Ply 180 (FS)	39" x 49' (1.5 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a sanded bottom and a plastic burn-off film on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.
Premium Cap Sheet	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants, sanded on the bottom and mineral granules on the top. Applied in hot asphalt, cold adhesive or ribbon stripping.



Pika Ply MS-4G (TG)	39" x 33' (1 sq.)	ASTM D6163	Fiberglass reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding.
Pika Ply SS-3P	39" x 33' (1 sq.) 39" x 26' (¾ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Pika Ply SS-4	39" x 33' (1 sq.) 39" x 26' (¾ sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane sanded on both sides. Applied in hot asphalt, cold adhesive or ribbon stripping.
Pika Ply 180 (SF) 3.5	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a plastic burn-off film on the bottom and sanded on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Secure Ply (S)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Secure Ply (F)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Secure Ply X (TG)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane. Applied by mechanical attachment.
Secure Ply	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a 4-inch or 5-inch wide side lap with a plastic burn-off film on the bottom and sanded on the top. Applied by mechanical attachment. Lap heat welded or sealed with an approved cold adhesive.
Secure Ply E (MF)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with a 5-inch wide side lap with a self-adhering compound and release film and sanded on the bottom and top surfaces. Applied by mechanical attachment. Lap self-adhered or sealed with approved cold adhesive.
Pika Ply SS-3P (TG)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Performance Ply MS FR	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Pika Ply 250 S (TG)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with a plastic burn-off film. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).



Pika Ply MS-4	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a sanded bottom and a mineral granules top. Applied in hot asphalt, cold applied adhesive or ribbon stripping (after removal of plastic burn-off film).
Pika Ply MS-4 (TG)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Pika Ply 250 GR FR (TG)	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants a plastic burn-off film on the bottom and mineral granules on the top. Applied by heat welding or ribbon stripping (after removal of plastic burn-off film).
Pika Ply Aluminum	various	ASTM D6298	Fiberglass reinforced modified bitumen sheeting faced with aluminum foil. Applied by heat welding of ribbon stripping (after removal of plastic burn-off film).
Solarflect (TG)	39" x 33' (1 sq.)	ASTM D6162	Polyester reinforced SBS modified bitumen membrane with a plastic burn-off film on the bottom side and a reflective white top surface. Applied by heat welding.
Solarflect	39" x 33' (1 sq.)	ASTM D6162	Stabilized polyester mat reinforced SBS modified bitumen membrane with a sanded bottom side and a reflective white top surface. Applied by hot asphalt or cold adhesive.
Permaguard Capsheet	39" x 33' (1 sq.)	ASTM D6164	Non-woven polyester reinforced modified bitumen membrane with fire retardants and surfaced with mineral granules. Applied by mechanical attachment, heat welding or ribbon stripping (after removal of plastic burn-off film).
Pika Ply MB Adhesive	5 gallon pail	Proprietary	Elastomeric Bitumen base cold adhesive.



**APPROVED INSULATIONS:**

**TABLE 2**

<b><u>Product Name</u></b>	<b><u>Product Description</u></b>	<b><u>Manufacturer (With Current NOA)</u></b>
ACFoam-II, ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
EnergyGuard Isocyanurate Composite	Composite polyisocyanurate insulation board	GAF Materials Corp.
EPS	Type IX 1.8 pcf. Polystyrene Insulation	Generic
XPS	Type IV 1.6 pcf. Polystyrene Insulation	Generic
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Perlite Insulation	Perlite insulation board	Generic
DensDeck, DensDeck Prime, DensDeck DuraGuard Fireguard Type X Gypsum Board, DensDeck DuraGuard	Water resistant gypsum board	Georgia Pacific Gypsum LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels LLC
ENRGY 3, ENRGY 3 25 PSI	Polyisocyanurate foam insulation	Johns Manville Corp.
Multi-Max 3, Multi-Max FA-3	Polyisocyanurate foam insulation	RMax Operating, LLC
SECUROCK Gypsum-Fiber Roof Board	Gypsum board	USG Corp.
Structodek High Density Fiberboard Roof Insulation	High Density wood fiber insulation board	Blue Ridge Fiberboard, Inc.
Fesco Board	Expanded mineral fiber insulation	Johns Manville Corp.
Pika Ply Recover Board	Mineral fortified asphaltic cored coverboard	Viridian Systems, Inc.



**APPROVED FASTENERS:**

**TABLE 3**

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Dekfast 12, 14 & 15 HS Fastener	Fasteners for membrane or insulation attachment to wood, steel or concrete decks		SFS Intec, Inc.
2.	Dekfast Galvalume Steel Hex Plate	Galvalume AZ50 steel plate	2 7/8" x 3 1/4"	SFS Intec, Inc.
3.	AccuTrac Hextra	Insulation fastener for wood and steel.		OMG, Inc.
4.	AccuTrac Plate	Galvalume square stress plate	3" square	OMG, Inc.
5.	OMG 3" Galvalume Steel Plate	Galvalume stress plate.	3" round	OMG, Inc.
6.	#12 Standard Roofgrip, #14 Roofgrip & #15 Roofgrip	Insulation fastener.		OMG, Inc.
7.	OMG 3 in. Round Metal Plate	Galvalume AZ50 steel plate	3" round	OMG, Inc.
8.	Trufast TL Fastener	Insulation fastener for lightweight concrete, CWF and gypsum decks		Altenloh, Brinck & Co. U.S., Inc.
9.	Trufast #14 HD Fastener	Insulation fastener for wood, steel and concrete.		Altenloh, Brinck & Co. U.S., Inc.
10.	Trufast #15 EHD Fastener	Insulation fastener for wood, steel and concrete.		Altenloh, Brinck & Co. U.S., Inc.
11.	Trufast 3" Metal Insulation Plate	Galvalume AZ50 steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
12.	OMG Polymer Batten Strip-TL	Modified polymer batten bar		OMG, Inc.
13.	Dekfast Galvalume Steel 3" Round	Galvalume AZ50 steel plate	3" round	SFS Intec, Inc.
14.	Dekfast Coiled Batten Strip	Batten bar		SFS Intec, Inc.
15.	Dekfast 2" Round Barbed Seam Plate	Stress plate	2" diameter	SFS Intec, Inc.
16.	Dekfast 2-3/8" Round Barbed Seam Plate	Stress plate	2-3/8" diameter	SFS Intec, Inc.
17.	Trufast #12 DP	Insulation and membrane fasteners		Altenloh, Brinck & Co. U.S., Inc.
18.	Trufast Flat Batten Bar	Galvalume AZ55 steel batten bar		Altenloh, Brinck & Co. U.S., Inc.



**APPROVED FASTENERS:**

**TABLE 3**

<b><u>Fastener Number</u></b>	<b><u>Product Name</u></b>	<b><u>Product Description</u></b>	<b><u>Dimensions</u></b>	<b><u>Manufacturer (With Current NOA)</u></b>
19.	Trufast Recessed Batten Bar	Galvalume AZ55 steel batten bar with recessed holes		Altenloh, Brinck & Co. U.S., Inc.
20.	#15 Roofgrip Large Head	Carbon steel fasteners used in steel, wood and concrete decks	Various	OMG, Inc.
21.	Dekfast IF-2-SB	Galvalume AZ55 steel plate	2" round	SFS Intec, Inc.
22.	Dekfast Galvalume Steel Round 2-3/8" 20 ga. Barbed Plate	Galvalume AZ55 steel barbed plate	2.37" Round	SFS Intec, Inc.
23.	Trufast 2" Barbed Metal Seam Plate	Galvalume steel stress plate	2" Round	Altenloh, Brinck & Co. U.S., Inc.
24.	Trufast 2.4" Barbed Seam Plate	Galvalume steel stress plate	2.4" Round	Altenloh, Brinck & Co. U.S., Inc.
25.	Flat Bottom Metal Plate	Galvalume stress plate.	3" square	OMG, Inc.



**APPROVED SURFACING/COATING OPTIONS:**

**TABLE 4**

**Chosen components must be applied according to manufacturer’s application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.**

<u>System Number</u>	<u>Manufacturer</u>	<u>Application</u>
1.	Generic	Gravel applied at 400 lbs./sq., adhered with flood coat of asphalt at 60 lbs./sq.
2.	Generic	Slag applied at 300 lbs./sq., adhered with flood coat of asphalt at 60 lbs./sq.
3.	Viridian Systems, Inc.	Gravel applied at 400 lbs./sq., adhered with Pika Ply MB Adhesive at 4 gal./sq.
4.	Karnak Corporation	Karnak #97 Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal./sq.
5.	Thermo Manufacturing Systems, LLC	Super Prep Roof Coating applied in two coats at an application rate of 1.5 gal./sq./coat.
6.	United Coatings Manufacturing Company	Roof Mate Coating, applied in one base coat at a rate of 1.5 gal./sq. and one finish coat at a rate of 1.5 gal./sq.
7.	Insulating Coatings Corporation	Astec 2000 Finish Coat applied in two base coats at a rate of 0.75 gal./sq./coat and two finish coats at a rate of 0.75 gal./sq./coat.
8.	Henry Company	HE280DC White Elastomeric Roof Coating applied in two coats at an application rate of 1 gal./sq./coat.
9.	National Coating Corp.	Acryshield® A500 applied in two coats at an application rate of 1 gal./sq./coat.
10.	Generic	Semi-ceramic coated colored granules.





**EVIDENCE SUBMITTED:**

<u>Test Agency/Identifier</u>	<u>Report</u>	<u>Name</u>	<u>Date</u>	
Dynatech Engineering Corp.	2491-04.95	TAS 114	01/04/95	
Factory Mutual Research Corp.	1Z3A6.AM	FM 4470	04/27/95	
	1D4A3.AM	FM 4470	04/24/98	
	3002351	FM 4470	02/28/03	
	3017614	FM 4470	02/27/06	
	3026028	FM 4470	05/25/06	
	3029098	FM 4470	10/25/07	
	3032109	FM 4470	07/21/08	
	3001445	FM 4470	02/05/99	
	3X3A7.AM	FM 4470	09/08/94	
	3045101	FM 4470	11/05/12	
Underwriters Laboratories	R11436	UL 790	06/18/13	
Exterior Research & Design, LLC	2003.02.97-1	TAS 114	02/15/97	
	2003-2.04.97-1	TAS 114	04/15/97	
	2002.07.97-1	TAS 114	08/15/97	
	2716.05.98-1	TAS 114	05/27/98	
	2752.02LAB.05.02-1	TAS 114	05/24/02	
	2109.09.02	TAS 114	09/19/02	
	2764.09.03	TAS 114	09/16/03	
Trinity   ERD	2774.04.05-R1	TAS 114	04/18/07	
	2779.11.05-R1	TAS 114	04/18/07	
	S6740.11.07	ASTM D6163	11/02/07	
	S12370.03.09-1	ASTM D6164	03/06/09	
	S12370.03.09-2	ASTM D6164	03/06/09	
	S12370.03.09-3	ASTM D6162	03/06/09	
	S11440.06.10	ASTM D4798 & TAS 110	06/01/10	
	S11440.01.11-R1	ASTM D6164	06/07/12	
	S11440.11.10-4	ASTM D2178	11/17/10	
	S11440.11.10-3-R1	ASTM D4601	01/30/13	
	S11440.12.10-1-R1	ASTM D6163	06/07/12	
	S32700.12.10	ASTM D6162	12/15/10	
	S30440.03.10-2-R2	FM 4470 & TAS 114	06/01/10	
	S35860.12.11-1	ASTM D2178	12/12/11	
	S35860.12.11-2	ASTM D4601	12/12/11	
	S35860.05.12-1-R1	ASTM D6163	06/07/12	
	S35860.05.12-2-R1	ASTM D6164	06/07/12	
	S35860.05.12-3	ASTM D6164	05/08/12	
	PRI Construction Materials Technologies, LLC	SOP-049-02-01	ASTM D1644 /D2196	05/31/12
		SOP-043-02-01	ASTM D4601	02/27/12
SOP-042-02-01		ASTM D4601	02/27/12	
SOP-041-02-01		ASTM D2178	02/27/12	
SOP-040-02-01		ASTM D2178	02/27/12	
SOP-010-02-01.03		TAS-138	07/26/11	
SOP-050-02-01		ASTM D3019	07/12/12	



**APPROVED ASSEMBLIES:**

<b>Membrane:</b>	SBS
<b>Deck Type 2I:</b>	Steel, Insulated
<b>Deck Description:</b>	18-22 ga. steel Grade 80 steel fastened 6” o.c. with Traxx/5 fasteners to steel supports spaced maximum 5 ft. o.c. Deck side laps fastened with Traxx/1 fasteners spaced at 20” o.c.
<b>System Type B(1):</b>	Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ACFoam-III, ENRGY 3, ENRGY 3 25 PSI, H-Shield Minimum 1.5” thick	1, 3, 6, 8 with approved plates	1:1.33 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>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Approved High Density Wood Fiberboard, Structodek High Density Fiberboard Roof Insulation Minimum ½” thick	N/A	N/A
Fesco Board Minimum ¾” thick	N/A	N/A

**Note:** Apply optional top layer of insulation shall be adhered with approved hot 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. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** None



- Ply Sheet:** One or more plies of Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply SS-3P (TG)\*, Pika Ply 250 S (TG)\*, heat welded.  
Or  
One or more plies of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply 2.2 (FS)\*, Pika Ply 180 (FS)\*, Pika Ply SS-3P, Pika Ply SS-4 or one or more plies of Type IV or Type VI ply sheets, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.  
\*Requires heat welded cap membrane.
- Membrane:** Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, heat welded  
Or  
Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base or ply membrane.
- Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
- Maximum Design Pressure:** -67.5 psf. (For Fesco Board) (See General Limitation #7)  
-75 psf. (For High Density Wood Fiberboard) (See General Limitation #7)



**Membrane:** SBS  
**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga., 1.5 in. (38mm) deep, ASTM A653 or A1008 Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners into steel supports spaced maximum 6 ft. o.c. Deck side laps are attached with Traxx/1 fasteners spaced max. 30" o.c.  
**System Type B(2):** Base layer of insulation mechanically attached, top layer adhered with approved asphalt

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<b><u>Base Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>ACFoam-II, ACFoam-III, H-Shield Minimum 2" thick</b>	<b>9 (min #14)</b>	<b>1:1.6 ft<sup>2</sup></b>

**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.**

<b><u>Top Insulation Layer</u></b>	<b><u>Insulation Fasteners (Table 3)</u></b>	<b><u>Fastener Density/ft<sup>2</sup></u></b>
<b>Approved High Density Wood Fiberboard Minimum 1/2" thick</b>	<b>N/A</b>	<b>N/A</b>

**Note: Apply optional top layer of insulation shall be adhered with approved hot 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. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.**

**Base Sheet:** One or more plies of Pika Ply 2.2 (FS)\*, Pika Ply 180 (S), Pika Ply 180 (FS)\*, Pika Ply SS-3P, Pika Ply SS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.  
 \*Requires heat welded ply or cap membrane.

**Ply Sheet:  
(Optional)** One or more layers of Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)\*, heat welded  
 Or  
 Pika Ply SS-3G, Pika Ply 2.2 (FS)\*, Pika Ply 180 (S), Pika Ply 180 (FS)\*, Pika Ply SS-3P, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.  
 \*Requires heat welded cap membrane.



**Membrane:** Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, heat welded  
Or  
Premium Cap Sheet, Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base or ply membrane.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -75 psf. (See General Limitation #7.)



**Membrane:** SBS  
**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Type B, Grade 33 steel fastened 6” o.c. with Traxx/5 fasteners to supports spaced 5 ft. o.c. Deck side laps fastened with Traxx/1 fasteners spaced at 20” o.c.  
**System Type C(1):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ACFoam-III, ENRGY 3, ENRGY 3 25 PSI, Multi-Max FA-3, H-Shield Minimum 1.5” thick	N/A	N/A

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck Minimum ¼” thick	1, 3, 6, or 8	1:2 ft <sup>2</sup>
Approved High Density Wood Fiberboard Minimum ½” thick	1, 3, 6, or 8	1:2 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** None

**Ply Sheet:** One or more plies of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply SS-3P, Pika Ply SS-4 adhered in CIM 162 Adhesive applied at a rate of 1.5 gal./sq.

**Membrane:** Solarflect, Premium Cap Sheet, Elastophene FR+ GR, Performance Ply MS FR, Pika Ply MS-4 adhered in CIM 162 Adhesive or Soprema PV Adhesive applied at a rate of 1.5 gal./sq.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

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



**Membrane:** SBS

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Steel, Grade 80 steel decking over ¼” thick steel supports spaced at maximum 6 ft. o.c. attached with Traxx/5 fasteners at a spacing of 6” o.c. Deck side laps are attached 30” o.c. using Traxx/1 fasteners.

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

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ACFoam-III, ENRGY 3, ENRGY 3 25 PSI, Multi-Max FA-3, H-Shield Minimum 1.5” thick	N/A	N/A

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck Minimum ¼” thick	6	1:1.78 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** None

**Ply Sheet:** One or more plies of Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply SS-3P (TG)\*, Pika Ply 250 S (TG)\*, heat welded  
Or  
One or more plies of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply 2.2 (FS)\*, Pika Ply 180 (FS)\*, Pika Ply SS-3P, Pika Ply SS-4 or one or more plies of Type IV or Type VI ply sheets, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.  
\*Requires heat welded cap membrane.

**Membrane:** Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, heat welded  
Or  
Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base or ply membrane.



**Surfacing:**

Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:**

-52.5 psf. (See General Limitation #7)





**Membrane:** SBS

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., 1.5 in. (38mm) deep, ASTM A653 or A1008 Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners into steel supports spaced maximum 6 ft. o.c. Deck side laps are attached with Traxx/1 fasteners spaced max. 30" o.c.

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

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ACFoam-III, ENRGY 3, H-Shield, Multi-Max FA-3 (flat or tapered) Minimum 1.4" thick	N/A	N/A

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck Minimum 1/4" thick	1(#14)	1:1.78 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. Refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** None

**Ply Sheet:** One ply of Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)\*, heat welded  
Or  
One ply of Pika Ply SS-3G, Pika Ply 2.2 (FS)\*, Pika Ply 180 (S), Pika Ply 180 (FS)\*, Pika Ply SS-3P, Pika Ply SS-4, or one to three plies of ASTM D2178 Type IV or VI ply sheet, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or in Pika Ply MB Adhesive at 1.5 – 2.0 gallons/square.  
\*Requires heat welded cap membrane.

**Membrane:** Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, heat welded  
Or  
Premium Cap Sheet, Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in hot asphalt at 25 lbs./sq. or in Pika Ply MB Adhesive at 1.5 – 2.0 gallons/square to sand surfaced base or ply membrane.



**Surfacing:**

Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:**

-60 psf. (See General Limitation #7.)



**Membrane:** SBS  
**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga., steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum deck spans of 6 ft. o.c. Deck side laps are attached with Traxx/5 screws spaced 6" o.c.  
**System Type C(4):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, H-Shield, ISO 95+ GL, ENRGY 3 Minimum 2" thick	N/A	N/A

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/2" thick (4'x8')	1, 5, 9, 10	1:1.78 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. Refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of Pika Ply SS-3G, Pika Ply 2.2 (FS)\*, Pika Ply 180 (S), Pika Ply 180 (FS)\*, Pika Ply SS-3P, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq.  
 \*Requires heat welded ply or cap membrane.

**Ply Sheet:  
(Optional)** One or more layers of Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)\*, heat welded.  
 Or  
 Pika Ply SS-3G, Pika Ply 2.2 (FS)\*, Pika Ply 180 (S), Pika Ply 180 (FS)\*, Pika Ply SS-3P, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.  
 \*Requires heat welded cap membrane.

**Membrane:** One layer of Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, heat welded.  
 Or  
 One layer of Premium Cap Sheet, Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base or ply membrane.



**Surfacing:**

Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:**

-60 psf. (See General Limitation #7.)



**Membrane:** SBS  
**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga., Type B, Grade 33 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum deck spans of 6 ft. o.c. Deck side laps are attached with Traxx/1 screws spaced 24" o.c.  
**System Type C(5):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any approved polyisocyanurate or EPS or XPS listed in Table 2 Minimum 1" thick	N/A	N/A

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Pika Ply Recover Board Minimum 1/8" thick	1, 6, 9, 10	1:2 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. Refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of Pika Ply SS-3G, Pika Ply 2.2 (FS)\*, Pika Ply 180 (S), Pika Ply 180 (FS)\*, Pika Ply SS-3P, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq.  
 Or  
 Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Pika Ply 250 S (TG)\*, heat welded.  
 \*Requires heat welded ply or cap membrane.

**Ply Sheet:  
(Optional)** One or more plies of Pika Ply SS-3G, Pika Ply 2.2 (FS)\*, Pika Ply 180 (S), Pika Ply 180 (FS)\*, Pika Ply SS-3P, Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.  
 Or  
 Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Pika Ply 250 S (TG)\*, heat welded.  
 \*Requires heat welded cap membrane.



**Membrane:** Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, heat welded.  
Or  
Premium Cap Sheet, Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base or ply membrane.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -60 psf. (See General Limitation #7.)



**Membrane:** SBS

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., Type B, Grade 33 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum deck spans of 6 ft. o.c. Deck side laps are attached with Traxx/1 screws spaced 24" o.c.

**System Type C(6):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any approved polyisocyanurate or EPS or XPS listed in Table 2 Minimum 1" thick	N/A	N/A

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Pika Ply Recover Board Minimum 1/8" thick	1, 6, 9, 10	1:2 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. Refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** One or more plies of Pika Ply SS-3P, Pika Ply 180 (S), Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq.

Or

Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Pika Ply 250 S (TG)\*, heat welded.

\*Requires heat welded ply or cap membrane.

**Ply Sheet:  
(Optional)** Pika Ply SS-3P, Pika Ply 180 (S), Pika Ply SS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base membrane.

Or

Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Pika Ply 250 S (TG)\*, heat welded.

\*Requires heat welded cap membrane.



**Membrane:**

Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), heat welded.

Or

Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in hot asphalt at 25 lbs./sq. to sand surfaced base or ply membrane.

**Surfacing:**

Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes.

Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications

Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design**

**Pressure:**

-67.5 psf. (See General Limitation #7.)





**Membrane:** SBS  
**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. steel Grade 80 steel fastened 6" o.c. with Traxx/5 fasteners to steel supports spaced maximum 5 ft. o.c. Deck side laps fastened with Traxx/1 fasteners spaced at 20" o.c.  
**System Type C(7):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft<sup>2</sup></u>
<b>Any Approved insulation listed in Table 2 (flat or tapered) loose laid.</b>		

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft<sup>2</sup></u>
<b>Pika Ply Recover Board</b> Minimum 1/8" thick	1, 6, 10 or 10 (#15)	1:1.25 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. Refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of Pika Ply SS-3G, Pika Ply 2.2 (FS)\*, Pika Ply 180 (S), Pika Ply 180 (FS)\*, Pika Ply SS-3P, Pika Ply SS-4, adhered in a full mopping of approved asphalt, applied within the EVT range and at a rate of 20-40 lbs./sq.  
 Or  
 Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)\*, Vented Base G (TG), Vented Base P (TG), heat welded.  
 \*Requires heat welded ply or cap membrane.

**Ply Sheet: (Optional)** One or more layers of Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply 180 (SF), Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)\*, heat welded.  
 Or  
 Pika Ply SS-3G, Pika Ply 2.2 (FS)\*, Pika Ply 180 (S), Pika Ply 180 (FS)\*, Pika Ply SS-3P or Pika Ply SS-4 adhered in a full mopping of approved asphalt, applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base membrane.  
 \*Requires heat welded cap membrane.



**Membrane:** Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, heat welded.  
Or  
Premium Cap Sheet, Solarflect, Performance Ply MS FR, Pika Ply MS-4, adhered in hot asphalt at 25 lbs./sq. or in Pika Ply MB Adhesive at 1.5 – 2.0 gallons/square to sand surfaced base or ply membrane.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -90 psf. (See General Limitation #7.)



**Membrane:** SBS

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. 1.5 in. (38mm) deep, ASTM A653 or A1008 Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced 6 ft. o.c. Side laps are fastened with Traxx/1 fasteners spaced 30 in. o.c.

**System Type D(1):** All layers of insulation and base sheet simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ACFoam-III, ENRGY 3, Multi-Max FA-3, H-Shield Minimum 1.4" thick	N/A	N/A
<u>(Optional) Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Approved High Density Wood Fiberboard, Structodek High Density Fiberboard Minimum 1/2" thick	N/A	N/A
Fesco Board Minimum 3/4" thick	N/A	N/A
DensDeck Minimum 1/4" thick	N/A	N/A
DensDeck DuraGuard Fireguard Type X Gypsum Board Minimum 5/8" 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.

**Base Sheet:** One ply of Secure Ply, Secure Ply (S)\*, Secure Ply X (TG)\*, Pika Ply SS-3P (TG)\* or Pika Ply 250 S (TG)\* fastened to the deck as described below:

\*Requires heat welded ply or cap membrane.

**Fastening #1:** Attach base sheet using SFS Dekfast 14 fasteners with Dekfast 2" Round Barbed Seam Plates spaced 18" o.c. in a 4" wide heat welded or bituminous taped seam.  
*(Meets Maximum Design Pressure of -45 psf; See General Limitation #9.)*



- Fastening #2:** Attach base sheet using SFS Dekfast 14 fasteners with Dekfast Galvalume Steel 3 in. Round Insulation Plates spaced 24" o.c. in the center of the sheet. Laps are heat welded. Fastener rows are stripped in with a 7" wide section of heat welded base sheet membrane.  
*(Meets Maximum Design Pressure of -45 psf; See General Limitation #9.)*
- Fastening #3:** ((Limited to use of Secure Ply X (TG) and Pika Ply 250 S (TG) Membranes only.) Attach base sheet using SFS Dekfast 15 HS Fastener and 70 mm Round Plates spaced 12" o.c. in a 6" wide heat welded lap.  
*(Meets Maximum Design Pressure of -97.5 psf; See General Limitation #7.)*
- Fastening #4:** Attach base sheet using Dekfast 14 fasteners and Dekfast 2" Round Barbed Seam Plates spaced 12" o.c. in a 5" wide heat welded lap.  
*(Meets Maximum Design Pressure of -60 psf; See General Limitation #7.)*
- Ply Sheet: (Optional)** One or more plies of Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply SS-3P (TG)\*, Pika Ply 250 S (TG)\*, heat welded  
\*Requires heat welded cap membrane.
- Membrane:** Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, heat welded.
- Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
- Maximum Design Pressure:** See Fastening Requirements above.



**Membrane:** SBS

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., 1.5 in. (38mm) deep, ASTM A653 or A1008 Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners at supports spaced maximum 6 ft. o.c. Side laps are fastened with Traxx/1 fasteners spaced 24" o.c.

**System Type D(2):** All layers of insulation and base sheet simultaneously attached

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, H-Shield Minimum 1.5" 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.

**Base Sheet:** Secure Ply, Secure Ply X (TG)\* or Secure Ply E (MF) mechanically attached with OMG Polymer Batten Strip-TL and OMG #15 Roofgrip Large Head fasteners, Trufast Recessed Batten Bar or Trufast Recessed Batten Bar and Trufast #15 EHD Fasteners or Dekfast Coiled Batten Strip with Dekfast 15 HS fasteners, spaced 12" o.c. in the min. 5" lap.

\*Requires heat welded ply or cap membrane.

**Ply Sheet: (Optional)** One or more layers of Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)\*, heat welded.

\*Requires heat welded cap membrane.

**Membrane:** Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), heat welded

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -75 psf. (See General Limitation #7.)



**Membrane:** SBS

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Grade 80 Steel decking fastened 6” o.c. with Traxx/5 fasteners to supports spaced maximum 6’ o.c. Deck side laps are fastened 24” o.c. with Traxx/1 fasteners.

**System Type D(3):** All layers of insulation and base sheet simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, H-Shield Minimum 1.5” thick	N/A	N/A
EnergyGuard Isocyanurate Composite, Fesco Board, Approved Perlite Minimum 0.75” thick	N/A	N/A

**Note:** Insulation 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.

**Base Sheet:** One ply of Secure Ply, or Secure Ply E (MF) fastened to the deck as described below:  
\*Requires heat welded ply or cap membrane.

**Fastening:** Attach base sheet using Trufast Recessed Batten Bar with Trufast #14 HD Fasteners or Dekfast Coiled Batten Strip with Trufast #14 HD Fasteners spaced 12” o.c. in the minimum 5” wide lap.

**Ply Sheet:  
(Optional)** One or more plies of Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply SS-3P (TG)\*, Pika Ply 250 S (TG)\*, heat welded  
\*Requires heat welded cap membrane.

**Membrane:** Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design  
Pressure:** -75 psf. (General Limitation #7)



**Membrane:** SBS  
**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Grade 80 Steel decking fastened 6" o.c. with Traxx/5 fasteners to supports spaced maximum 6' o.c. Deck side laps are fastened 24" o.c. with Traxx/1 fasteners.  
**System Type D(4):** All layers of insulation and base sheet simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, H-Shield Minimum 1.5" thick	N/A	N/A
EnergyGuard Isocyanurate Composite, Fesco Board, Approved Perlite Minimum 0.75" thick	N/A	N/A

**Note:** Insulation 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.

**Base Sheet:** One ply of Secure Ply or Secure Ply E (MF) fastened to the deck as described below:

**Fastening:** Attach base sheet using OMG Polymer Batten Strip-TL with OMG #15 Roofgrip Large Head fasteners or Trufast Flat Batten Bar and Trufast #14 HD Fasteners, spaced 12" o.c. in the minimum 5" wide lap.

**Ply Sheet:  
(Optional)** One or more plies of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply SS-3P, Pika Ply SS-4 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base membrane.

**Membrane:** Solarflect, Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. to sand surfaced base or ply membrane.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design  
Pressure:** -75 psf. (General Limitation #7)



**Membrane:** SBS  
**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga., ASTM A1008 Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced 6 ft. o.c. Side laps are fastened with Traxx/1 fasteners spaced 30 in. o.c.  
**System Type D(5):** Membrane fastened over preliminarily secured insulation.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any insulation listed in Table 2, flat or tapered.	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.

**Base Sheet:** Secure Ply, Secure Ply X (TG)\* or Secure Ply E (MF) mechanically attached with OMG Polymer Batten Strip-TL and OMG #15 Roofgrip Large Head fasteners, Trufast Flat Batten Bar and Trufast #15 EHD Fasteners or SFS Dekfast Coiled Batten Bar and Dekfast 15 HS fasteners, spaced 12" o.c. in the min. 5" lap.

\*Requires heat welded ply or cap membrane.

**Ply Sheet:  
(Optional)** One or more layers of Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)\*, heat welded

**Membrane:** Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design  
Pressure:** -97.5 psf. (See General Limitation #7.)





**Membrane:** SBS  
**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga., ASTM A1008 Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced 6 ft. o.c. Side laps are fastened with Traxx/1 fasteners spaced 30 in. o.c.  
**System Type D(6):** Membrane fastened over preliminarily fastened insulation

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any insulation listed in Table 2, flat or tapered.	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.**

**Base Sheet:** Secure Ply or Secure Ply X (TG) mechanically attached with OMG Polymer Batten Strip-TL and OMG #15 Roofgrip Large Head fasteners, Trufast Flat Batten Bar and Trufast #15 EHD Fasteners or SFS Dekfast Coiled Batten Bar and Dekfast 15 HS fasteners, spaced 12" o.c. in the min. 4" heat welded lap.  
 \*Requires heat welded ply or cap membrane.

**Ply Sheet:  
(Optional)** One or more layers of Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)\*, heat welded  
 \*Requires heat welded cap membrane.

**Membrane:** Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design  
Pressure:** -105 psf. (See General Limitation #7.)



**Membrane:** SBS

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18 ga. Steel type 3N steel decking attached to minimum ½” thick, W14 x 43 purlins with an 8” wide top flange spaced maximum 9 ft. o.c. using ¾” puddle welds spaced 8” o.c. (every bottom flute). Two welds per attachment point, spaced 4” apart. Steel deck side laps are attached 24” o.c. with Traxx/1 fasteners.

**System Type D(7):** Membrane attached over preliminary fastened insulation.

**All General and System Limitations apply**

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any insulation listed in Table 2, flat or tapered.	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.**

**Base Sheet:** One ply of Secure Ply X (TG)\* fastened through the insulation to the structural deck using SFS Dekfast 15 HS fasteners and 70-mm round plates spaced 16” o.c. in a 5” wide lap and 16” o.c. in one center row. The side lap fastener row is encapsulated in the heat welded lap and the center row is stripped-in with an 8” wide strip of heat welded membrane.

\*Requires heat welded ply or cap membrane.

**Ply Sheet:  
(Optional)** One or more plies of Pika Ply SS-3G (TG)\*, Pika Ply Base (TG)\*, Pika Ply SS-3P (TG)\*, Pika Ply 250 S (TG)\*, heat welded

\*Requires heat welded cap membrane.

**Membrane:** Pika Ply MS-4G (TG), Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), Pika Ply Aluminum, heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design  
Pressure:** -112.5 psf. (See General Limitation #7.)



**Membrane:** SBS  
**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. ASTM A1008 Grade 80 steel deck fastened 6" o.c. with Traxx/5 fasteners to supports spaced 6 ft. o.c. Side laps are fastened with Traxx/1 fasteners spaced 30 in. o.c.  
**System Type D(8):** Membrane fastened over preliminarily secured insulation

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any insulation listed in Table 2, flat or tapered.	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.**

**Base Sheet:** Secure Ply or Secure Ply X (TG) mechanically attached with OMG Polymer Batten Strip-TL and OMG #15 Roofgrip Large Head fasteners, Trufast Flat Batten Bar and Trufast #15 EHD Fasteners or SFS Dekfast Coiled Batten Bar and Dekfast 15 HS fasteners, spaced 6" o.c. in every other minimum 4" heat welded lap. Intermediate, non-fastened laps are 3" wide and heat welded.

\*Requires heat welded ply or cap membrane.

**Ply Sheet:  
(Optional)** One or more layers of Pika Ply SS-3P (TG)\*, Pika Ply 180 (SF) 3.5, Secure Ply, Pika Ply 250 S (TG)\*, heat welded.

\*Requires heat welded cap membrane.

**Membrane:** Solarflect (TG), Pika Ply MS-4 (TG), Pika Ply 250 GR FR (TG), heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design  
Pressure:** -120 psf. (See General Limitation #7.)



**Membrane:** SBS

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Grade 33 Steel decking fastened maximum 6" o.c. with two Traxx/5 fasteners and 0.75" diameter washers to supports spaced maximum 6' o.c. Deck side laps are fastened maximum 12" o.c. with Traxx/1 fasteners.

**System Type D(9):** All layers of insulation and base sheet simultaneously attached.

**All General and System Limitations apply.**

**Thermal Barrier: (Optional)** Minimum 5/8" thick SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime or DensDeck DuraGuard, pre-secured with a maximum contributory area of 1:4 ft<sup>2</sup>

**Vapor Barrier: (Optional)** One or more layers of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 2.2 (FS), Pika Ply 180 (FS) adhered in hot asphalt at 25 lbs./sq. or applied in Pika Ply MB Adhesive at a rate of 1.5 gal./sq.

Or

Pika Ply SS-3G (TG), Pika Ply Base (TG), Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, Pika Ply SS-3P (TG), Pika Ply 250 S (TG), heat welded.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, Multi-Max 3 Minimum 1.5" thick	N/A	N/A

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime, DensDeck DuraGuard Minimum 0.5" thick	1, 8, 10, 11	1:4 ft <sup>2</sup>

**Note:** Insulation 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.

**Primer: (Optional)** Coverboard is primed with an approved ASTM D41 asphalt primer at a rate of 100-150 ft<sup>2</sup>/gal.

**Base Sheet:** Pika Ply SS-3P (TG), Pika Ply 250 S (TG), Secure Ply, Secure Ply (F), Secure Ply (S), Secure Ply X (TG) or Secure Ply E (MF) fastened as specified below:



- Fastening #1:** Heat weld base membrane to the coverboard with minimum 3” laps. Mechanically attach heat welded base sheet with Dekfast 14 or Dekfast 15 HS fasteners and Dekfast 2” Round Barbed Seam Plates, Dekfast 14 or Dekfast 15 HS fasteners with Dekfast IF-2-SB, Dekfast Galvalume Steel Round 2-3/8” 20 ga. Barbed plates, Trufast #15 EHD Fasteners with Trufast 2” Barbed Metal Seam Plates or Trufast 2.4” Barbed Seam Plates or Dekfast 2-3/8” Round Barbed Seam Plates spaced maximum 12” o.c. through the side laps and two equally spaced staggered rows in the field of the membrane.  
*(Maximum Design Pressures –165 psf; See General Limitation #7.)*
- Fastening #2** Mechanically attach base sheet with Dekfast 14 or Dekfast 15 HS fasteners and Dekfast 2” Round Barbed Seam Plates, Dekfast 14 or Dekfast 15 HS fasteners with Dekfast IF-2-SB, Dekfast Galvalume Steel Round 2-3/8” 20 ga. Barbed plates, Trufast #15 EHD Fasteners with Trufast 2” Barbed Metal Stress Plates or Trufast 2.4” Barbed Seam Plates or Dekfast 2-3/8” Round Barbed Seam Plates, spaced maximum 12” o.c. through the minimum 3” wide side lap and two equally spaced staggered rows in the field of the membrane.  
*(Maximum Design Pressures –150 psf; See General Limitation #7.)*
- Ply Sheet:** Pika Ply SS-3G (TG), Pika Ply Base (TG), Pika Ply SS-3P (TG), Pika Ply 250 S (TG), heat welded.
- Membrane:** Pika Ply MS-4G (TG), Pika Ply Aluminum, Solarflect (TG), Sopralene Flam, 180 FR GR, Pika Ply 250 GR FR (TG), heat welded.
- Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
- Maximum Design Pressure:** See Fastening Options Above



**Membrane:** SBS

**Deck Type 2I:** Steel Insulated

**Deck Description:** 18-22 ga. Grade 33 Steel decking fastened maximum 6" o.c. with two Traxx/5 fasteners and 0.75" diameter washers to supports spaced maximum 6' o.c. Deck side laps are fastened maximum 12" o.c. with Traxx/1 fasteners.

**System Type D(10):** All layers of insulation and base sheet simultaneously attached.

**All General and System Limitations apply.**

**Thermal Barrier: (Optional)** Minimum 5/8" thick SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime or DensDeck DuraGuard, pre-secured with a maximum contributory area of 1:4 ft<sup>2</sup>

**Vapor Barrier: (Optional)** One or more layers of Pika Ply SS-3G, Pika Ply 180 (S), Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 2.2 (FS), Pika Ply 180 (FS) adhered in hot asphalt at 25 lbs./sq. or applied in Pika Ply MB Adhesive at a rate of 1.5 gal./sq.  
Or  
Pika Ply SS-3G (TG), Pika Ply Base (TG), Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, Pika Ply SS-3P (TG), Pika Ply 250 S (TG), heat welded.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, Multi-Max 3 Minimum 1.5" thick	N/A	N/A

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime, DensDeck DuraGuard Minimum 0.5" thick	1, 17, 9 or 10	1:4 ft <sup>2</sup>

**Note: Insulation 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.**

**Primer: (Optional)** Coverboard is primed with an approved ASTM D41 asphalt primer at a rate of 100-150 ft<sup>2</sup>/gal.

**Base Sheet:** Pika Ply 180 (SF) 3.5, fastened as specified below:



- Fastening #1:** Heat weld base sheet to coverboard with minimum 3” wide side lap. Mechanically attach heat welded base sheet with Dekfast 14 or Dekfast 15 HS fasteners and Dekfast 2” Round Barbed Seam Plates, Dekfast 14 or Dekfast 15 HS fasteners with Dekfast IF-2-SB, Dekfast Galvalume Steel Round 2-3/8” 20 ga. Barbed plates, Trufast#15 EHD Fasteners with Trufast 2” Barbed Metal Seam Plates or Trufast 2.4” Barbed Seam Plates or Dekfast 2-3/8” Round Barbed Seam Plates, spaced maximum 12” o.c. through the side laps and two equally spaced staggered rows in the field of the membrane.  
*(Maximum Design Pressures –165 psf; See General Limitation #7.)*
- Fastening #2** Mechanically attach heat welded base sheet with Dekfast 14 or Dekfast 15 HS fasteners and Dekfast 2” Round Barbed Seam Plates, Dekfast 14 or Dekfast 15 HS fasteners with Dekfast IF-2-SB, Dekfast Galvalume Steel Round 2-3/8” 20 ga. Barbed plates, Trufast #15 EHD Fasteners with Trufast 2” Barbed Metal Seam Plates or Trufast 2.4” Barbed Seam Plates or Dekfast 2-3/8” Round Barbed Seam Plates, spaced maximum 12” o.c. through the minimum 3” wide side lap and two equally spaced staggered rows in the field of the membrane.  
*(Maximum Design Pressures –150 psf; See General Limitation #7.)*
- Ply Sheet:** Pika Ply 180 (FS), Pika Ply 2.2 (FS), adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Membrane:** Pika Ply MS-4G (TG), Pika Ply Aluminum, Solarflect (TG), Sopralene Flam, 180 FR GR, Pika Ply 250 GR FR (TG), heat welded with minimum 3” wide side lap.
- Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
- Maximum Design Pressure:** See Fastening Options Above



**Membrane:** SBS

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Grade 33 Steel decking fastened maximum 6" o.c. with two Traxx/5 fasteners and 0.75" diameter washers to supports spaced maximum 6' o.c. Deck side laps are fastened maximum 12" o.c. with Traxx/1 fasteners.

**System Type D(11):** All layers of insulation and base sheet simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ISO 95+ GL, H-Shield, ENRGY 3, Multi-Max 3 Minimum 1.5" thick	N/A	N/A

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime, DensDeck DuraGuard Minimum 0.5" thick	1, 17, 9, 10	1:4 ft <sup>2</sup>

**Note: Insulation 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.**

**Primer:** Coverboard is primed with an approved ASTM D41 asphalt primer at a rate of 100-150 ft<sup>2</sup>/gal.  
**(Optional)**

**Base Sheet:** Pika Ply 180 (SF) 3.5, Secure Ply (F)\*, Secure Ply (S)\*, Secure Ply X (TG)\* or Secure Ply\* , heat welded to coverboard.  
\*Requires heat welded cap membrane.

**Fastening #1:** Heat weld base sheet to coverboard with minimum 3" wide side lap. Mechanically attach heat welded base sheet with Dekfast 14 or Dekfast 15 HS fasteners and Dekfast 2" Round Barbed Seam Plates, Dekfast 14 or Dekfast 15 HS fasteners with Dekfast IF-2-SB, Dekfast Galvalume Steel Round 2-3/8" 20 ga. Barbed plates, Trufast #15 EHD Fasteners with Trufast 2" Barbed Metal Stress Plates or Trufast 2.4" Barbed Seam Plates or Dekfast 2-3/8" Round Barbed Seam Plates, spaced maximum 12" o.c. through the side laps and two equally spaced staggered rows in the field of the membrane.  
*(Maximum Design Pressures –165 psf; See General Limitation #7.)*





- Fastening #2** Mechanically attach base sheet with Dekfast 14 or Dekfast 15 HS fasteners and Dekfast 2” Round Barbed Seam Plates, Dekfast 14 or Dekfast 15 HS fasteners with Dekfast IF-2-SB, Dekfast Galvalume Steel Round 2-3/8” 20 ga. Barbed plates, Trufast #15 EHD Fasteners with Trufast 2” Barbed Metal Stress Plates or Trufast 2.4” Barbed Seam Plates or Dekfast 2-3/8” Round Barbed Seam Plates, spaced maximum 12” o.c. through the minimum 3” wide side lap and two equally spaced staggered rows in the field of the membrane.  
*(Maximum Design Pressures –150 psf; See General Limitation #7.)*
- Ply Sheet:** Pika Ply 180 (SF), Pika Ply 180 (SF) 3.5, heat welded  
Or  
Pika Ply 180 (S), Pika Ply SS-3G, Pika Ply SS-3P or Pika Ply SS-4 adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Membrane:** Premium Cap Sheet, Performance Ply MS FR, Pika Ply MS-4, Solarflect, adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating listed in Table 4 above, or any Miami-Dade approved coating system.
- Maximum Design Pressure:** See Fastening Options Above



## **STEEL DECK SYSTEM LIMITATIONS:**

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.



## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap 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 to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

**END OF THIS ACCEPTANCE**