



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

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

NOTICE OF ACCEPTANCE (NOA)

**W.P. Hickman Systems, Inc.
30700 Solon Industrial Parkway
Solon, OH 44139**

SCOPE:

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

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

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

DESCRIPTION: SBS Modified Bitumen over Recover

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

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

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

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

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

This NOA renews NOA No. 02-1202.05 and consists of pages 1 through 35.
The submitted documentation was reviewed by Jorge L. Acebo.



**NOA No.: 07-0131.04
Expiration Date: 04/18/12
Approval Date: 04/12/07
Page 1 of 35**

ROOFING ASSEMBLY APPROVAL

Category:	Membrane Roofing System
Sub-Category:	Built-up Roofing
Type:	Modified Bitumen
Sub-Type:	SBS
Deck Type:	Recover
Maximum Design Pressure	-620 psf
Maximum Fire Classification:	See General Limitation #1.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT
TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Pika Ply SS-3G	39" x 32.8' (1 sq.)	ASTM D 6163 Type 1 (S)	Fiberglass reinforced SBS modified bitumen membrane sanded on both sides, used as a base and top ply. Applied in hot asphalt or cold adhesive.
Pika Ply SS-3G (HP)	39" x 32.8' (1 sq.)	ASTM D 6163 Type 2 (S)	Heavy-duty fiberglass reinforced SBS modified bitumen membrane sanded on both sides, used as a base and top ply. Applied in hot asphalt or cold adhesive.
Pika Ply SS-3G (TG)	39" x 32.8' (1sq.)	ASTM D 6163 Type 1 (S)	Fiberglass reinforced SBS modified bitumen membrane covered on both sides with a thermofusible plastic film. Torch applied.
Pika Ply 2.2 (FS)	39" x 49' (1½ sq.)	ASTM D 6163 Type 1 (S)	Glass reinforced SBS modified bitumen membrane with thermofusible plastic film for torch bonding to the topside. Applied in hot asphalt or cold adhesive.
Premium Cap Sheet	39" x 32.8' (1sq.)	ASTM D 6163 Type 1 (G)	Fiberglass reinforced SBS modified bitumen membrane surfaced with colored granules. Top ply membrane formulated for UL Class 'A'. Applied in hot asphalt or cold adhesive.
Pika Ply MS-3G	39" x 32.8' (1sq.)	ASTM D 6163 Type 1 (G)	Fiberglass reinforced SBS modified bitumen membrane surface with colored granules. Top ply membrane formulated for UL Class 'A'. Applied in hot asphalt or cold adhesive.
Pika Ply MS-3G (HP)	39" x 32.8' (1 sq.)	ASTM D 6163 Type 2 (G)	Heavy-duty fiberglass scrim reinforced SBS modified bitumen membrane surfaced with colored granules. Top ply membrane formulated for UL Class 'A'. Applied in hot asphalt or cold adhesive.
Pika Ply MS-4G (TG)	39" x 32.8' (1 sq.)	ASTM D 6163 Type 1 (G)	Fiberglass reinforced, SBS modified bitumen membrane surfaced with colored granules. Top ply membrane formulated for UL Class 'A'. Torch applied.
Pika Ply 180 (FS)	39" x 48' (1½ sq.)	ASTM D 6164 Type 1 (S)	Polyester reinforced SBS modified bitumen membrane with thermofusible plastic film for torch bonding to the topside, used as a base sheet. Applied in hot asphalt or cold adhesive.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Pika Ply SS-3P	39" x 32.8' (1 sq.)	ASTM D 6164 Type 1 (S)	Non-woven polyester reinforced SBS modified bitumen membrane sanded on both sides, used primarily as a base ply. Applied in hot asphalt or cold adhesive.
Performance Ply SS	39" x 35' (1 sq.)	ASTM D 6164 Type 1 (S)	Non-woven polyester reinforced SBS modified bitumen membrane sanded on both sides, used primarily as a base ply. Applied in hot asphalt or cold adhesive.
Pika Ply SS-3P (TG)	39" x 32.8' (1 sq.)	ASTM D 6164 Type 1 (S)	Non-woven polyester reinforced SBS modified bitumen membrane, both sides covered with thermofusible plastic film, primarily used as a base ply. Torch applied
Pika Ply SS-4	39" x 32.8' (1 sq.)	ASTM D 6164 Type 2 (S)	Non-woven polyester reinforced SBS modified bitumen membrane sanded on both sides, used primarily as a base ply. Applied in hot asphalt or cold adhesive.
Pika Ply 350 S	39" x 26' (1 sq.)	ASTM D 6164 Type 2 (S)	Non-woven polyester reinforced SBS modified bitumen membrane sanded on both sides, used primarily as a base ply. Applied in hot asphalt or cold adhesive.
Performance Ply MS FR	39" x 32.8' (1 sq.)	ASTM D 6164 Type 1 (G)	Non-woven polyester reinforced SBS modified bitumen membrane surfaced with colored granules. Top ply membrane formulated for UL Class 'A'. Applied in hot asphalt or cold adhesive.
Pika Ply MS-4 (TG)	39" x 26' (3/4 sq.)	ASTM D 6164 Type 1 (G)	Non-woven polyester reinforced SBS modified bitumen membrane surfaced with colored granules. Torch applied.
Pika Ply 250 GR (TG)	39" x 26' (3/4 sq.)	ASTM D 6164 Type 2 (G)	Non-woven polyester reinforced SBS modified bitumen membrane surfaced with colored granules. Torch applied.
Pika Ply MS-4	39" x 32.8' (1 sq.)	ASTM D 6164	Non-woven polyester reinforced SBS modified bitumen membrane surfaced with colored granules. Top ply membrane formulated for UL Class 'A'. Applied in hot asphalt or cold adhesive.
Pika Ply 250 GR FR (TG)	39" x 26' (3/4 sq.)	ASTM D 6164 Type 2 (G)	Non-woven polyester reinforced SBS modified bitumen membrane surfaced with colored granules. Torch applied
Pika Ply 350 GR	39" x 16' (1/2 sq.)	ASTM D 6164 Type 2 (G)	Non-woven polyester reinforced SBS modified bitumen membrane surfaced with colored granules. Applied in hot asphalt or cold adhesive.
Pika Ply 350 GR FR	39" x 16' (1/2 sq.)	ASTM D 6164 Type 2 (G)	Non-woven polyester reinforced SBS modified bitumen membrane surfaced with colored granules. Top ply membrane formulated for UL Class 'A'. Applied in hot asphalt or cold adhesive.
Pika Ply 350 GR FR (TG)	39" x 16' (1/2 sq.)	ASTM D 6164 Type 2 (G)	Non-woven polyester reinforced SBS modified bitumen membrane surfaced with colored granules. Top ply membrane formulated for UL Class 'A'. Torch applied.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Pika Ply Aluminum	39" x 32.8' (1 sq.)	ASTM D 6298	Fiberglass reinforced modified bitumen waterproof sheeting faced with aluminum foil.
Pika Ply Copper	39" x 32.8' (1 sq.)	ASTM D 6298	Fiberglass reinforced modified bitumen waterproof sheeting faced with copper foil.
Pika Ply Stainless	39" x 32.8' (1 sq.)	ASTM D 6298	Fiberglass reinforced modified bitumen waterproof sheeting faced with stainless steel foil.

APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
ACFoam II	Polyisocyanurate foam insulation	Atlas Energy Products
ACFoam Composite	Composite polyisocyanurate insulation board	Atlas Energy Products
Gypsum	Gypsum board	generic
High Density Wood Fiberboard	Wood fiber insulation board	generic
Perlite Insulation	Perlite insulation board	generic
Dens Deck	Water resistant gypsum board	G-P Gypsum Corp.
ENRGY-2	Polyisocyanurate foam insulation	Johns Manville
ENRGY-2 Plus, Composite, Fesco Foam	Composite Insulation board	Johns Manville
Multi-Max FA	Polyisocyanurate foam insulation	RMax
Thermarroof Composite	Composite Insulation board	RMax

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.	#12, #14 & #15 Dekfast Fastener	Insulation fastener		Construction Fasteners, Inc.
2.	Omega Fastener	Stainless steel insulation fastener		Construction Fasteners, Inc.
3.	Dekfast Hex Plate	Galvalume AZ50 steel plate	2 7/8" x 3 1/4"	Construction Fasteners, Inc.
4.	Dekfast Lock Plate	Polypropylene locking plate.	3" x 3 1/4"	Construction Fasteners, Inc.
5.	Twin Loc-Nails	Base ply fastening systems for lightweight concrete decks		ES Products, Inc.



APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
6.	FM-30, FM-45, FM-60, FM-90 Fasteners	Base ply fastening systems for lightweight concrete decks		ES Products, Inc.
7.	#12, #14 & #15 Roofgrip Fasteners	Insulation fastener for wood, steel and concrete.		ITW Buildex Corp.
8.	AccuTrac Hextra Fasteners	Insulation fastener for wood, steel and concrete.		ITW Buildex Corp.
9.	Polymer Gyptec	Glass reinforced Nylon insulation fastener for gypsum & CWF decks.		ITW Buildex Corp.
10.	Polymer Gyptec Metal Plate	Galvalume stress plate	3" round	ITW Buildex Corp.
11.	Accutrac Plate	Galvalume square stress plate	3" square	ITW Buildex Corp.
12.	Metal Plate	Galvalume stress plate.	3" round 3" square	ITW Buildex Corp.
13.	Gearlok Plastic Plate	Polyolefin round stress plate	3.2" round	ITW Buildex Corp.
14.	Olympic CR Base Ply Fasteners	Base ply fastening assembly		Olympic Mfg. Group, Inc.
15.	NTB Magnum	Glass reinforced Nylon insulation fastener for gypsum & CWF decks with barbs.		Olympic Mfg. Group, Inc.
16.	NTB Plate	Galvalume stress plate	3" round	Olympic Mfg. Group, Inc.
17.	Lite-Deck	Insulation fastener for CWF and Gypsum decks.		Olympic Mfg. Group, Inc.
18.	Lite-Deck Plate	Galvalume stress plate	3" round	Olympic Mfg. Group, Inc.
19.	Olympic Fastener #12, #14 & #15	Insulation fastener.		Olympic Mfg. Group, Inc.
20.	Olympic CD-10	Insulation fastener.		Olympic Mfg. Group, Inc.
21.	Olympic Fluted Nail	Insulation fastener.		Olympic Mfg. Group, Inc.
22.	Olympic Standard	Galvalume AZ50 steel plate	3" round	Olympic Mfg. Group, Inc.
23.	Olympic Plastic	Polypropylene stress plate	3.25" round	Olympic Mfg. Group, Inc.



APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
24.	Powerlite	Insulation fastener.		Powers Fasteners, Inc.
25.	Powerlite	Galvalume stress plate.	3" round	Powers Fasteners, Inc.
26.	Base-Lok Fasteners	Base sheet fastener for lightweight concrete, cwf and gypsum decks	1.75" long with 3" dia. head	Simplex Nails
27.	Turbo Tube-Lok Fasteners	Base sheet fastener for lightweight concrete, cwf and gypsum decks	1.75" long with 2" dia. head	Simplex Nails
28.	SFS Base-Lok Fasteners	Base sheet fastener for lightweight concrete, cwf and gypsum decks	1.75" long with 3" dia. head	SFS Intec, Inc.
29.	Insul-Fixx Fastener	Insulation fastener for wood, steel and concrete.		SFS Intec, Inc.
30.	Isofast Fasteners	Insulation fastener for wood, steel and concrete.		SFS Intec, Inc.
31.	Extra Load Fasteners #15	Fasteners for membrane attachment to steel or concrete decks.		SFS Intec, Inc.
32.	Insul-Fixx S Plate	Galvalume AZ50 steel plate	3" round	SFS Intec, Inc.
33.	Insul-Fixx P Plate	Polyethylene stress plate	3" round	SFS Intec, Inc.
34.	Isofast Plate	Square or oblong galvalume steel plates for use with Isofast fasteners		SFS Intec, Inc.
35.	ES-I Fastening Systems	Insulation fastening assembly with plate.	3" round	SFS Intec, Inc.
36.	Tru-Fast TL Fastener	Insulation fastener fastener for lightweight concrete, CWF and gypsum decks		The Tru-Fast Corp.
37.	Tru-Fast Fastener	Insulation fastener for wood, steel and concrete.		The Tru-Fast Corp.
38.	Tru-Fast HD or EHD	Insulation fastener for wood, steel and concrete.		The Tru-Fast Corp.
39.	Tru-Fast MP-3	Galvalume AZ50 steel plate	3" round	The Tru-Fast Corp.
40.	Tru-Fast Metal	Galvalume AZ55 steel plate	3" round	The Tru-Fast Corp.
41.	Tru-Fast Plastic	Polypropylene plate	3" round	The Tru-Fast Corp.



EVIDENCE SUBMITTED

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corporation	J.I. 1Z3A6.AM	Wind Uplift Classification	04.27.95
	J.I. 2D0A0.AM	Wind Uplift Classification	08.15.97
	FM Approval Guide	Uplift Classifications	Published Annually
	J.I. 3009814	Class 4470	09.06.02
	3002351	Class 4470	02.28.03
Underwriters Laboratories, Inc.	UL Roofing Materials and Systems Directory	File No. R11436 Fire Classification	Published Annually
Dynatech Engineering Corp. Exterior Research & Design, LLC	2491-04.95	Wind Uplift	01.04.95
	2003.02.97-1	Wind Uplift	02.15.97
	2003-2.04.97-1	Wind Uplift	04.15.97
	2002.07.97-1	Wind Uplift	08.15.97
	2738.10.00-1	Wind Uplift	10.20.02
	2109.08.02	Wind Uplift	08.06.02
IRT of S. Florida, Inc.	990028	TAS 114	09.30.99
IRT of S. Florida, Inc.	02-017	TAS 114	04.16.02
IRT of S. Florida, Inc.	02-022	TAS 114	07.07.02



APPROVED ASSEMBLIES:

Deck Type 71: Recover

Deck Description: Wood/Steel/Concrete/Lightweight Concrete/Cementitious Wood Fiber/Gypsum

System Type A(1): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
AC Foam II, ENRGY-2 Minimum 1.5" thick	N/A	N/A
Base or Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Toprox Minimum 1" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
BP High Strength, FM-90 Traffic Top/High Density, EnergyGuard High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek Minimum ½" thick	N/A	N/A
EnergyGuard Perlite, Fesco Board Minimum ¾" thick	N/A	N/A
Dens Deck Minimum ¼" thick	N/A	N/A
Fireguard, type X gypsum Minimum 5/8" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved asphalt within the EVT range and at a rate of 20-40-lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used, as a top layer shall be placed with the polyisocyanurate side facing down.

Anchor Sheet: One ply of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Weather Ply, Pika Ply SS-2, GAFGLAS #75, Vaporbar, or Johns Manville Glasbase fastened to the deck as described below:



- Fastening #1: **(Wood, steel, concrete)** Attach anchor sheet using CF #14 Dekfast with Hex Plates or Insul-Fixx or HD Insul-Fixx spaced 9" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet.
- Fastening #1: **(Gypsum)** Attach anchor sheet using 1.8" long Twin Loc-Nails spaced 9" o.c. in a 2" lap and 18" o.c. in two staggered rows in the center of the sheet.
- Fastening #3: **(Lightweight concrete, cementitious wood fiber, gypsum)** Attach anchor sheet using Tri-Lok fasteners spaced 10" o.c. in a 4" lap and 10" o.c. in two staggered rows in the center of the sheet.
- Base Sheet: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, Johns Manville Perma Ply 28, JM Glasply IV or Glasply Premier adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Ply Sheet: (Optional, required if no base sheet used) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
or
One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.
- Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
or
Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Surfacing: (Optional) Install one of the following:
1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.
- Maximum Design Pressure: -45 psf; (See General Limitation #9.)



Deck Type 7I: Recover

Deck Description: Wood/Steel/Concrete/Lightweight Concrete/Cementitious Wood Fiber/Gypsum

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

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
AC Foam II, ENRGY 2, PSI 25 Minimum 1.5" thick	N/A	N/A
Base or Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Toprox Minimum 1" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
BP High Strength, FM-90 Traffic Top/High Density, EnergyGuard High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek Minimum 1/2" thick	N/A	N/A
EnergyGuard Perlite, Fesco Board Minimum 3/4" thick	N/A	N/A
Dens Deck Minimum 1/4" thick	N/A	N/A
Fireguard, type X gypsum Minimum 5/8" thick	N/A	N/A

Note: Existing roof shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of vapor barrier or insulation. All insulation shall be adhered to the deck in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² or in Henry III Insulbond at 2.0-2.5 gallons/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, Johns Manville Perma Ply 28, JM Glasply IV or Glasply Premier adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional, required if no base sheet used) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
or
One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.



Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
or
Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Optional) Install one of the following:
1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

Maximum Design Pressure:

-420 psf;	(for min. 1.5" thick Approved polyisocyanurate in asphalt followed by min. ¾" thick Fesco Board in asphalt <u>over concrete deck.</u>) (See General Limitation #9.)
-345 psf;	(for min. 1.5" thick Approved polyisocyanurate in asphalt followed by min. ½" thick High Density Fiberboard or ¾" thick GAFTEMP Permalite in asphalt <u>over concrete deck.</u>) (See General Limitation #9.)
-177 psf;	(for min. 1.5" thick Approved polyisocyanurate in asphalt followed by min. ¼" thick Georgia Pacific Dens Deck in asphalt <u>over concrete deck.</u>) (See General Limitation #9.)
-237 psf;	(for min. ¼" thick Georgia Pacific Dens Deck in asphalt only <u>over concrete deck.</u>) (See General Limitation #9.)
-60 psf;	(for all other applications and deck types) (See General Limitation #9.)



Deck Type 7I: Recover

Deck Description: Wood/Steel/Concrete/Lightweight Concrete/Cementitious Wood Fiber/Gypsum

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

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
AC Foam II, ENRGY-2 Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
BP High Strength, FM-90 Traffic Top/High Density, EnergyGuard High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek Minimum 1/2" thick	N/A	N/A
Dens Deck Minimum 1/4" thick	N/A	N/A

Note: Existing roof shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, Johns Manville Perma Ply 28, JM Glasply IV or Glasply Premier adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional, required if no base sheet used) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
or
One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.

Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
or
Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



Surfacing:

(Optional) Install one of the following:

1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

Maximum Design

Pressure:

-127.5 psf; (See General Limitation #9.)



Deck Type 7I: Recover
Deck Description: Wood/Steel/Concrete/Lightweight Concrete/Cementitious Wood Fiber/Gypsum
System Type A(4): One or more layers of insulation adhered with approved asphalt or adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
AC Foam II, ENRGY-2 Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Dens Deck Minimum 1/4" thick	N/A	N/A

Note: Existing roof surface shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of vapor barrier or insulation. All insulation shall be adhered to the vapor barrier or primed deck in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² or Weather-Tite Insulation Adhesive applied in continuous 3/4" to 1" wide ribbons at a maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, Johns Manville Perma Ply 28, JM Glasply IV or Glasply Premier adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional, required if no base sheet used) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
 or
 One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.

Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
 or
 Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



Surfacing:

(Optional) Install one of the following:

1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

Maximum Design
Pressure:

-60 psf; (See General Limitation #9.)



Deck Type 7I: Recover
Deck Description: Wood/Steel/Concrete/Lightweight Concrete/Cementitious Wood Fiber/Gypsum
System Type A(5): One or more layers of insulation adhered with approved asphalt or adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
AC Foam II Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Dens Deck Minimum ¼" thick	N/A	N/A

Note: Existing roof surface shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of vapor barrier or insulation. All insulation shall be adhered to the vapor barrier or primed deck in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² or Insta-Stik Adhesive applied in continuous ¾" to 1" wide ribbons at a maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, Johns Manville Perma Ply 28, JM Glasply IV or Glasply Premier adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional, required if no base sheet used) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
 or
 One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.

Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
 or
 Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



Surfacing:

(Optional) Install one of the following:

1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

Maximum Design
Pressure:

-90 psf; (See General Limitation #9.)



Deck Type 7I: Recover

Deck Description: Wood/Steel/Concrete/Lightweight Concrete/Cementitious Wood Fiber/Gypsum

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

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
AC Foam II, ENRGY 2 Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Dens Deck Minimum ¼" thick	N/A	N/A
High Density Wood Fiberboard Minimum ½" thick	N/A	N/A

Note: Existing roof surface shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of vapor barrier or insulation. All insulation shall be adhered to the vapor barrier or primed deck in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft² or Weather-Tite Insulation Adhesive applied in continuous ¾" to 1" wide ribbons at a maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, Johns Manville Perma Ply 28, JM Glasply IV or Glasply Premier adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional, required if no base sheet used) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
or
One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.



Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
or
Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Optional) Install one of the following:
1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

Maximum Design Pressure:
-105 psf; (for ½" thick High Density Wood Fiberboard)
(See General Limitation #9.)
-127.5 psf; (for ¼" thick Dens Deck) (See General Limitation #9.)



Deck Type 7I: Recover
Deck Description: Wood/Steel/Concrete/Lightweight Concrete/Cementitious Wood Fiber/Gypsum
System Type B(1): 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.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ENRGY-2, PSI-25 Minimum 1.4" thick	1, 2, 7, 8, 9, 15, 17, 19, 20, 21, 24, 29, 30, 35, 36 or 37	1:2.67 ft ²
AC Foam II, Multi-Max FA Minimum 1.5" thick	1, 2, 7, 8, 19, 20, 21, 29, 30, 35 or 37	1:2 ft ²
ACFoam II, ENRGY 2, PSI-25, Multi-Max FA Minimum 2" thick	1, 2, 7, 8, 9, 15, 17, 19, 20, 21, 24, 29, 30, 35, 36 or 37	1:4 ft ²
ACFoam Composite, ENRGY-2 Composite, ENRGY-2 Plus, Thermo roof Composite Minimum 1.5" thick	1, 2, 7, 8, 9, 15, 17, 19, 20, 21, 24, 29, 30, 35, 36 or 37	1:4 ft ²
Toprox Minimum 1" thick	19	1:2.4 ft ²
Dens Deck Minimum ¼" thick	2, 17, 19, 20, 21 or 29	1:4 ft ²
Fireguard Minimum 5/8" thick	2, 17, 19, 20, 21 or 29	1:4 ft ²
EnergyGuard Perlite, Fesco Board Minimum ¾" thick	1 or 2	1:2 ft ²

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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements set forth in applicable Building Code. (See Roofing Application Standard RAS 117 for fastening details).

Middle Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft²
EPS Board - For use between Dens Deck or Fireguard base layer and Approved wood fiber top layer only. Minimum 1" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
BP High Strength, FM-90 Traffic Top/High Density, EnergyGuard High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek Minimum ½" thick	N/A	N/A



EnergyGuard Perlite, Fesco Board		
Minimum ¾" thick	N/A	N/A
Dens Deck		
Minimum ¼" thick	N/A	N/A
Fireguard, type X gypsum		
Minimum 5/8" thick	N/A	N/A
Toprox		
Minimum 1" 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 ft². 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: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, Johns Manville Perma Ply 28, JM Glasply IV or Glasply Premier adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional, required if no base sheet used) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
or
One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.

Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
or
Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Optional) Install one of the following:
1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

Maximum Design Pressure: -52.5 psf; (See General Limitation #9.)



Deck Type 7I: Recover
Deck Description: Wood/Steel/Concrete/Lightweight Concrete/Cementitious Wood Fiber/Gypsum
System Type B(2): 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.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
AC Foam II, ENRGY-2, PSI-25 Minimum 1.4" thick	1, 2, 7, 8, 19, 20, 21, 29, 30, 35 or 37	1:1.33 ft ²

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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements set forth in applicable Building Code. (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
BP High Strength, FM-90 Traffic Top/High Density, EnergyGuard High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek Minimum ½" thick	N/A	N/A
EnergyGuard Perlite, 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 ft². 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: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, Johns Manville Perma Ply 28, JM Glasply IV or Glasply Premier adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.



Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
or

Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Optional) Install one of the following:

1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

Maximum Design Pressure:

-67.5 psf (For perlite) (See General Limitation #7)

-75 psf (For High Density Wood Fiberboard) (See General Limitation #7)



Deck Type 71: Recover
Deck Description: wood/steel/concrete
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.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
AC Foam II, ENRGY 2, PSI-25, Multi-Max FA Minimum 1.4" thick	N/A	N/A
Dens Deck Minimum ¼" thick	N/A	N/A
Fireguard, type X gypsum Minimum 5/8" thick	N/A	N/A
Toprox Minimum 1" thick	N/A	N/A
EnergyGuard Perlite, Fesco Board Minimum ¾" thick	N/A	N/A

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

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ACFoam Composite, ENRGY-2 Composite, ENRGY 2 Plus, Thermarroof Composite Minimum 1.5" thick	1, 2, 7, 8, 19, 20, 21, 29, 30, 35 or 37	1:4 ft ²
Toprox Minimum 1" thick	19	1:2.4 ft ²
EnergyGuard Perlite, Fesco Board Minimum ¾" thick	1, 2, 7, 8, 19, 20, 21, 29, 30, 35 or 37	1:2 ft ²
Esgard, High Density Fiberboard, EnergyGuard Fiberboard, Huebert Fiberboard Minimum 1" thick	1, 2, 7, 8, 19, 20, 21, 29, 30, 35 or 37	1:4 ft ²
Dens Deck Minimum ¼" thick	3, 19, 20, 21 or 29	1:4 ft ²
Fireguard Minimum 5/8" thick	3, 19, 20, 21 or 29	1:4 ft ²

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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.



- Base Sheet: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, Johns Manville Perma Ply 28, JM Glasply IV or Glasply Premier adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Ply Sheet: (Optional, required if no base sheet used) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
or
One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.
- Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
or
Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Surfacing: (Optional) Install one of the following:
1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.
- Maximum Design Pressure: -52.5 psf (See General Limitation #9)



Deck Type 7I: Recover
Deck Description: wood/steel/concrete
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.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
AC Foam II, ENRGY 2, PSI-25, Multi-Max FA Minimum 1.5" thick	N/A	N/A

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

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
High Density Fiberboard Minimum 1" thick	1, 2, 7, 8, 19, 20, 21, 29, 30, 35 or 37	1:2 ft ²

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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, Johns Manville Perma Ply 28, JM Glasply IV or Glasply Premier adhered in CIM 162 Adhesive applied at a rate of 1.5 gal./sq.

Ply Sheet: (Optional, required if no base sheet used) One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or Type IV or Type VI ply sheets adhered in CIM 162 Adhesive applied at a rate of 1.5 gal./sq.

Membrane: Pika Ply SS-3G, Pika Ply SS-3G (HP), Pika Ply SS-3P, Performance Ply SS, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 250 GR, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 250 GR FR, Pika Ply 350 GR FR, Pika Ply MS-3G (HP) or adhered in CIM 162 Adhesive applied at a rate of 1.5 gal./sq.

Surfacing: (Optional) Install one of the following:
 1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
 2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

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



Deck Type 7I: Recover
Deck Description: wood/steel/concrete
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.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
AC Foam II, ENRGY 2, PSI-25, Multi-Max FA Minimum 1.5" thick	N/A	N/A

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

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
High Density Wood Fiberboard Minimum ½" thick	9	1:1.3 ft ²
Dens Deck Minimum ¼" thick	9	1:2 ft ²

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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, Johns Manville Perma Ply 28, JM Glasply IV or Glasply Premier adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional, required if no base sheet used) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
 or
 One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.

Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
 or
 Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



Surfacing:

(Optional) Install one of the following:

1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

Maximum Design

Pressure:

-45 psf (See General Limitation #7)



Deck Type 7I: Recover

Deck Description: Wood/Steel/Concrete/Lightweight Concrete/Cementitious Wood Fiber/Gypsum

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.

Base Insulation Layer

AC Foam II, ENRGY 2, PSI-25, Multi-Max FA
Minimum 1.4" thick

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

N/A

N/A

Base or Top Insulation Layer

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Toprox

Minimum 1" thick

N/A

N/A

Top Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

BP High Strength, FM-90 Traffic Top/High Density, EnergyGuard High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek
Minimum ½" thick

N/A

N/A

EnergyGuard Perlite, Fesco Board

Minimum ¾" thick

N/A

N/A

Dens Deck

Minimum ¼" thick

N/A

N/A

Fireguard, type X gypsum

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 dimensions greater than 4ft., and four fasteners for any insulation board having no dimensions 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 Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75 or JM Perma Ply 28 fastened to the deck as described below:

Fastening #1: (*wood, steel, concrete*) Attach base sheet using #14 Dekfast with Hex Plates or Insulfixx S or HD Insulfixx S spaced 9" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet.

Fastening #2: (*Lightweight concrete, cementitious wood fiber, gypsum*) Attach base sheet using TPR fasteners with Insulfixx Plates spaced 9" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet.

Note: Base sheet fasteners shall be tested for withdrawal resistance in compliance with TAS 105 to confirm compliance with the wind load requirements of applicable Building Code.



- Ply Sheet: (Optional, required if no base sheet used) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
or
One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.
- Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
or
Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Surfacing: (Optional) Install one of the following:
1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.
- Maximum Design Pressure: -60 psf; (See General Limitation #9.)



Deck Type 7: Recover
Deck Description: Wood/Steel/Concrete/Lightweight Concrete/Cementitious Wood Fiber/Gypsum
System Type E(1): Base sheet mechanically fastened.

All General and System Limitations apply.

Barrier: (Optional) Roctex Rocroof, loose laid

Base Sheet: One ply of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75 or JM Perma Ply 28 fastened to the deck as described below:

Fastening #1: (*wood, steel, concrete*) Attach base sheet using #14 Dekfast with Hex Plates or Insulfixx S or HD Insulfixx S spaced 9" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet.

Fastening #2: (*Lightweight concrete, cementitious wood fiber, gypsum*) Attach base sheet using TPR fasteners with SFS Insulfixx S Plates spaced 9" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet.

Fastening #3: (*lightweight concrete, cementitious wood fiber, gypsum*) Attach base sheet using Twin Loc-Nails spaced 9" o.c. in a 2" lap and 18" o.c. in two staggered rows in the center of the sheet.

Fastening #4: (*lightweight concrete, cementitious wood fiber, gypsum*) Attach base sheet using Simplex Turbo Tube-Lok fasteners spaced 9" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet.

Note: Base sheet fasteners shall be tested for withdrawal resistance in compliance with TAS 105 to confirm compliance with the wind load requirements of applicable Building Code.

Ply Sheet: (Optional) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
or
One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.

Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
or
Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Optional) Install one of the following:
1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

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



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Deck Type 7: Recover
Deck Description: Lightweight Concrete/Gypsum
System Type E(2): Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75 or GAFGLAS Stratavent, Flex-I-Glas Base, All weather/Empire, Parabase Plus or Vapor Chan fastened to the deck as described below:
Fastening: Attach base sheet using ES Products Twin Loc-nails spaced 9" o.c. in a 4" lap and 9" o.c. in two staggered rows in the center of the sheet.

Note: Base sheet fasteners shall be tested for withdrawal resistance in compliance with TAS 105 to confirm compliance with the wind load requirements of applicable Building Code.

Ply Sheet: (Optional) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
or
One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.

Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
or
Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Optional) Install one of the following:
1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

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



Deck Type 7: Recover
Deck Description: Lightweight Concrete/Gypsum
System Type E(3): Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, or Vapor Chan fastened to the deck as described below:
Fastening: Attach base sheet using ES Products Twin Loc-nails spaced 9" o.c. in a 4" lap and 9" o.c. in two staggered rows in the center of the sheet.

Note: Base sheet fasteners shall be tested for withdrawal resistance in compliance with TAS 105 to confirm compliance with the wind load requirements of applicable Building Code.

Ply Sheet: One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.

Membrane: Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Optional) Install one of the following:
1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

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



Deck Type 7: Recover
Deck Description: Wood/Steel/Concrete/Lightweight Concrete/Cementitious Wood Fiber/Gypsum
System Type F: Base sheet adhered to primed substrate.

All General and System Limitations apply.

Base Sheet: (Optional) One or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply SS-2, GAFGLAS #75, JM Perma Ply 28, JM Glasply IV or Glasply Premier adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional) One or more plies of Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) heat welded
or
One or more plies of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS), Pika Ply 180 (FS), Premium Ply, HK Glass Ply or 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.

Membrane: Pika Ply 350 GR FR (TG), Pika Ply 250 GR FR (TG), Pika Ply 250 GR (TG), Pika Ply MS-4 (TG), Pika Ply MS-4G (TG), Pika Ply Copper, Pika Ply Stainless or Pika Ply Aluminum heat welded
or
Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350 S, Premium Cap Sheet, Pika Ply MS-3G, Pika Ply 350 GR, Pika Ply MS-4, Performance Ply MS FR, Pika Ply 350 GR FR, Performance Ply SS, Pika Ply MS-3G (HP) or Pika Ply SS-3G (HP) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Optional) Install one of the following:
1. Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.
2. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.

Maximum Design Pressure: -620 psf; (for concrete decks only) (See System Limitation #9)
-60 psf; (for all other deck types) (See System Limitation #9)



RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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