MIAMI-DADE

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
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 Wood Decks

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

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

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

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

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

This NOA renews NOA No. 02-0128.01 and consists of pages 1 through 15.
The submitted documentation was reviewed by Jorge L. Acebo.

PRODUCT CONTROL ACCEPTED

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Material:	SBS
Deck Type:	Wood
Maximum Design Pressure	**-45 psf**
Fire Classification:	See General Limitation #1

TABLE 1
TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specification	Product Description
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' (1 sq.)	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' (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'. Applied in hot asphalt or cold adhesive.
Pika Ply MS-3G	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'. 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.

Product	Dimensions	Test Specification	Product Description
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' (¾ 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' (¾ 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' (¾ 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 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 250 GR FR (TG)	39" x 26' (¾ 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' (½ 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' (½ 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.

Product	Dimensions	Test Specification	Product Description
Pika Ply 350 GR FR (TG)	39" x 16' (½ 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.
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.

TABLE 2

APPROVED INSULATIONS:

Product	Dimensions	Test Specification	Product Description	Manufacturer
ACFoam II	Various	TAS 110	Polyisocyanurate foam insulation	Atlas Energy Products (With current NOA)
E'NRG'Y-2	Various	TAS 110	Polyisocyanurate foam insulation	Johns Manville Corp. (With current NOA)
High Density Wood Fiberboard	Various	TAS 110	Wood fiber insulation board	Generic (With current NOA)
Perlite Insulation	Various	TAS 110	Perlite insulation board	Generic (With current NOA)
ACFoam Composite	Various	TAS 110	Composite polyisocyanurate insulation board	Atlas (With current NOA)
Fesco Foam	Various	TAS 110	Composite polyisocyanurate insulation board	Johns Manville Corp. (With current NOA)
E'NRG'Y-2 Composite	Various	TAS 110	Composite polyisocyanurate insulation board	Johns Manville Corp. (With current NOA)
E'NRG'Y-2 Plus	Various	TAS 110	Composite polyisocyanurate insulation board	Johns Manville Corp. (With current NOA)
Dens-Deck	Various	TAS 110	Gypsum insulation board	Georgia-Pacific (With current NOA)

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Dekfast #12 (with plate)	Carbon Steel, Sentri (Black)	Various	Construction Fasteners

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
2.	Omega S/P	Carbon steel, carbon steel tip, Sentri (gray)	#14 dia. By 8 in. (203mm) max length	Construction Fasteners
3.	Insul-Fixx #12 (With plate)	Steel, Tuff-Tite (black or purple)	Various	SFS Stadler Inc.
4.	System ES-1 (With plate)	Steel, Tuff-Tite (black or purple)	Various	SFS Stadler Inc.
5.	Tru-Fast DP (With plate)	Carbon steel Tru-Kote Coating	Various	The Tru-Fast Corp.
6.	CR-10 (With plate)	Carbon Steel or Answers Coating (black)	Various	Olympic Fasteners
7.	AccuTrac Hextra (With plate)	Carbon steel, SPEX (black) or Climaseal (blue)	#12 dia. By 8 in. (203mm) max length	ITW Buildex Corp.
8.	Roofgrip #12 (With plate)	Carbon steel, SPEX (black, blue, gray) or Climaseal (blue, red)	Various	ITW Buildex Corp.

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corporation	J.I. 1Z3A6.AM	Wind Uplift Classification	04.27.95
	J.I. 1W8A1.AM	Wind Uplift Classification	07.15.93
	J.I. 2D0A0.AM	Wind Uplift Classification	08.15.97
	FM Approval Guide	Uplift Classifications	Published Annually
Underwriters Laboratories, Inc.	UL Roofing Materials and Systems Directory	File No. R11436 Fire Classification	Published Annually
Dynatech Engineering Corp.	10.94.27	Wind Uplift	10.27.94
	2491-04.95	Wind Uplift	01.04.95
Exterior Research & Design, LLC.	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
ITS / Warnock Hersey		ASTM D 5147 Physical Property Testing	05.27.93
Exterior Research & Design, LLC.	2738-10.00-1	Wind Uplift	10.20.00
IRT of S. Florida	990028	Wind Uplift	09.30.99

APPROVED ASSEMBLIES:

Deck Type 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank

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

All General and System Limitations apply.

Insulation Base Layer	Fastener Density ft^2	Fastener Type
One or more layers of the following:		
AC Foam II Minimum: 1.5" thick	N/A	N/A
E'NRG'Y-2 Minimum: 1.4" thick	N/A	N/A

Insulation Base or Top Layer	Fastener Density ft^2	Fastener Type
One or more layers of the following:		
Toprox Minimum: 1" thick	N/A	N/A

Insulation Top Layer	Fastener Density ft^2	Fastener Type
BP High Strength, FM-90 Traffic Top/High Density, GAFTEMP High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek Minimum: ½" thick	N/A	N/A
Celotherm, Conperl, GAFTEMP Permalite, 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 hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Anchor Sheet: One ply of Multi-Ply Glass CL, Multi-Ply Glass, Weather Ply, Performance Ply or Pika Ply SS-2 fastened to the deck as described below:

Fastening: Attach anchor sheet using approved roofing nails and tin caps spaced 9" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet.

Base Sheet: (Optional) One or two plies of Multi-ply Glass CL, Multi-Ply Glass, Weather Ply, Performance Ply or Pika Ply SS-2 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 ply 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 or HK Glass Ply 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) or Pika Ply SS-3P (TG) torch applied.

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 torch applied.
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 to an approved non-granule surfaced membrane. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.

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 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank

System Type B: Base layer of insulation mechanically attached, optional top layer adhered with approved asphalt.

All General and System Limitations apply.

Insulation Base Layer	Fastener Density ft²	Fastener Type
One or more layers of the following:		
AC Foam II Minimum: 1.5" Thick	1:2	See any approved fastener in table 3
E'NRG'Y-2, PSI-25 Minimum: 1.4" thick	1:2.67	See any approved fastener in table 3
ACFoam II, E'NRG'Y-2, PSI-25 Minimum: 2" thick	1:4	See any approved fastener in table 3
ACFoam Composite, E'NRG'Y-2 Composite, E'NRG'Y-2 Plus Minimum: 1.5" thick	1:4	See any approved fastener in table 3
Toprox Minimum: 1" thick	1:2.4	See any approved fastener in table 3
Dens Deck Minimum: ¼" thick	1:4	See any approved fastener in table 3
Fireguard Minimum: $^{5}/_{8}$" thick	1:4	See any approved fastener in table 3
Celotherm, Conperl, GAFTEMP Permalite, Fesco Board Minimum: ¾" thick	1:2	See any approved fastener in table 3

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.

Insulation Top Layer	Fastener Density ft²	Fastener Type
EPS Board – For use between Dens Deck and Fireguard base layer and Approved wood fiber top layer only. Minimum: 1" thick	N/A	N/A

Insulation (Optional) Middle Layer	Fastener Density ft²	Fastener Type
BP High Strength, FM-90 Traffic Top/High Density, GAFTEMP High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek		
Minimum: ½" thick	N/A	N/A
Celotherm, Conperl, GAFTEMP Permalite, 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: Optional top layer of insulation shall be adhered with 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. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side face down.

Base Sheet: (Optional) One or two plies of Multi-Ply Glass CL, Multi-Ply Glass, Weather Ply, Performance Ply or Pika Ply SS-2 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 ply 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 or HK Glass Ply 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) or Pika Ply SS-3P (TG) torch applied.

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 torch applied
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 to an approved non-granule surfaced membrane. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.

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 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank

System Type C: All layers of insulation simultaneously attached.

All General and System Limitations apply.

Insulation Base Layer	Fastener Density ft^2	Fastener Type
One or more layers of the following:		
AC Foam II, E'NRG'Y-2, PSI-25, Toprox Minimum: 1" 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 layers shall be simultaneously fastened; see top layer below for fasteners and density.

Insulation Top Layer	Fastener Density ft^2	Fastener Type
AC Foam II Minimum: 1.5" thick	1:2	See any approved fastener in table 3
E'NRG'Y-2, PSI-25 Minimum: 1.4" thick	1:2.67	See any approved fastener in table 3
ACFoam II, E'NRG'Y-2, PSI-25 Minimum: 2" thick	1:4	See any approved fastener in table 3
ACFoam Composite, E'NRG'Y-2 Composite, E'NRG'Y-2 Plus Minimum: 1.5" thick	1:4	See any approved fastener in table 3
Toprox Minimum: 1" thick	1:2.4	See any approved fastener in table 3
Celotherm, Conperl, GAFTEMP Permalite, Fesco Board Minimum: ¾" thick	1:2	See any approved fastener in table 3
Esgard, High Density Fiberboard, GAFTEMP Fiberboard, Huebert Fiberboard Minimum: 1" thick	1:4	See any approved fastener in table 3
Dens Deck Minimum: ¼" thick	1:4	See any approved fastener in table 3

Fireguard Minimum: $^5/_8$" thick	1:4	See any approved fastener in table 3

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. (See Roofing Application Standard RAS 117 for fastening details.)

Base Sheet: (Optional) One or two plies of Multi-Ply Glass CL, Multi-Ply Glass, Weather Ply, Performance Ply or Pika Ply SS-2 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 ply of Pika Ply SS-3G, Pika Ply SS-3P, Pika Ply SS-4 or Pika Ply 350 S, Performance Ply SS, Pika Ply SS-3G (HP), Pika Ply 2.2 (FS) Pika Ply 180 (FS), Premium Ply or HK Glass Ply 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) or Pika Ply SS-3P (TG) torch applied.

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 torch applied
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 to an approved non-granule surfaced membrane. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.

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 1I: Wood, Insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank

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

All General and System Limitations apply.

Insulation Base Layer	Fastener Density ft^2	Fastener Type
One or more layers of the following:		
AC Foam II, E'NRG'Y-2 Minimum: 1.5" thick	N/A	N/A
E'NRG'Y-2 Minimum: 1.4" thick	N/A	N/A

Insulation Base or Top Layer	Fastener Density ft^2	Fastener Type
One or more layers of the following:		
Toprox Minimum: 1" thick	N/A	N/A

Insulation (Optional)Top Layer	Fastener Density ft^2	Fastener Type
BP High Strength, FM-90 Traffic Top/High Density, GAFTEMP High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek Minimum: ½" thick	N/A	N/A
Celotherm, Conperl, GAFTEMP Permalite, 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 layers of insulation 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 fastener per board shall be increased maintaining the same fastener density. See Roofing Application Standard RAS 117 for fastening details.

Base Sheet: One ply of Multi-Ply Glass CL, Multi-Ply Glass, Weather Ply, Performance Ply or Pika Ply SS-2 fastened to the deck as described below:

Fastening: Attach base sheet using #14 Dekfast with Hex Plates or Insul-Fixx spaced 9" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet.

Ply Sheet: (Optional) One ply 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 or HK Glass Ply 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) or Pika Ply SS-3P (TG) torch applied.

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 Copper, Pika Ply Stainless or Pika Ply Aluminum torch applied
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 to an approved non-granule surfaced membrane. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.

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 1: Wood, Non-insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank decks

System Type E (1): Base sheet mechanically fastened.

All General and System Limitations apply.

Barrier: (Optional) Roctex Rocroof, loose laid

Base Sheet: One or two plies of Multi-Ply Glass CL, Multi-Ply Glass, Weather Ply, Performance Ply or Pika Ply SS-2 fastened to the deck using approved roofing nails and tin caps spaced 9" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet.

Ply Sheet: One ply 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 or HK Glass Ply 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 torch applied
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 to an approved non-granule surfaced membrane. Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications.

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.)

WOOD DECK SYSTEM LIMITATIONS:

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

GENERAL LIMITATIONS:

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

END OF THIS ACCEPTANCE