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
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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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: SBS Modified Bitumen over Lightweight Concrete 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 revises NOA No. 02-1202.03 and consists of pages 1 through 11.
The submitted documentation was reviewed by Jorge L. Acebo

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: SBS, Modified Bitumen

Deck Type: Lightweight Concrete
Maximum Design Pressure **-75 psf**
Fire Classification: See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT
TABLE 1

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 based 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'(1 ½ 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 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-3G (HP) Cap Sheet	39" x 32.8'(1 sq.)	ASTM D 6163 Type 2 (G)	Heavy-duty fiberglass scrim reinforced SBS modified bitumen membrane surfaced with white granules. Top ply membrane formulated for UL Class 'A'. Applied in hot asphalt or cold adhesive.
PikaPly MS-3G Cap Sheet	39" x 32.8' (1 sq.)	ASTM D 6163 Type 1 (G)	Fiberglass reinforced SBS modified bitumen membrane surface with white 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.

Product	Dimensions	Test Specification	Product Description
Pika Ply 180 (FS)	39" x 48' (1½ sq.)	ASTM D 6164 Type 1 (S)	Polyester reinforced SBS modified bitumen membranes with thermofusible plastic film for torch applied bonding to the topside, used as a base sheet. Applied in hot asphalt or cold adhesive.
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' ($^3/_4$ 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 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' ($^3/_4$ 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' (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.

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.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam II	Isocyanurate Insulation	Atlas Roofing Corp.
ACFoam Composite	Isocyanurate Insulation with perlite facer	Atlas Roofing Corp.
ConPearl	Expanded perlite mineral fiber	Conglas
GAFTEMP High Density Fiberboard	High density wood fiberboard insulation.	GAF Materials Corp.
Dens Deck	Silicon treated gypsum	G-P Products
ENRGY 2, ENERGY 3, PSI-25	Isocyanurate Insulation.	Johns Manville
ENRGY 2 Composite	Polyisocyanurate insulation laminated to perlite.	Johns Manville
ENRGY 2 Plus	Polyisocyanurate insulation laminated to wood fiber.	Johns Manville
Fesco Foam, DuraFoam	Isocyanurate Insulation with perlite facer	Johns Manville
Wood Fiberboard	Regular wood fiber insulation	Generic
High Density Wood Fiberboard	High Density Wood Fiber insulation board.	Generic
Perlite Insulation Board	Perlite Insulation.	Generic
Type X Gypsum	Gypsum Wallboard.	Generic
Structodek, Structodek FS	High Density Wood Fiber insulation board.	Masonite
Fiber Base	Asphalt coated wood fiber insulation	Temple Inland Forest Products Corp.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Twin Loc-Nail	Base sheet fastener with intergraded Plate.	2.7" dia. plate	ES Products, Inc.

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
2.	FM-30, FM-45, FM-60, FM-90 Fasteners	Base ply fastening systems for lightweight concrete decks		ES Products, Inc.
3.	Lightweight Concrete (LWC) CR Base Fastener	Galvanized double spreading leg fastener for securing base sheets to lightweight insulating concrete.		Johns Manville
4.	C-R Base Sheet Disc	Galvanized double spreading leg fastener for securing base sheets to lightweight insulating concrete.		Olympic Mfg. Group
5.	Base-Lok Fasteners	Base sheet fastener for lighweight concrete, cwf and gypsum decks	1.75" long with 3" dia. head	Simplex Nails
6.	Turbo Tube-Lok Fasteners	Base sheet fastener for lighweight concrete, cwf and gypsum decks	1.75" long with 2" dia. head	Simplex Nails
7.	SFS Base-Lok Fasteners	Base sheet fastener for lighweight concrete, cwf and gypsum decks	1.75" long with 3" dia. head	SFS Stadler, Inc.

EVIDENCE SUBMITTED

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corp.	J.I. 0PA2.AM	Wind Uplift Classification	11.29.89
	J.I. 2P2A7.AM	Wind Uplift Classification	11.29.89
	J.I. 1W8A1.AM	Wind Uplift Classification	07.15.93
	J.I. 1Z3A6.AM	Wind Uplift Classification	04.27.95
	J.I. 152A1.AM	Wind Uplift Classification	11.28.84
	J.I. 2D0A0.AM	Wind Uplift Classification	08.15.97
	J.I. 3001334	Wind Uplift Classification	01.25.00
	J.I. 3009814	Class 4470	09.06.02
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
	2716.05.98-1	Wind Uplift	05.11.98
	2738.10.00-1	Wind Uplift	10.20.02
	2109.08.02	Wind Uplift	08.06.02
ITS / Warnock Hersey		ASTM D 5147	05.27.93
IRT of S. Florida, Inc.	990028	TAS 114	09.30.99
Underwriters Laboratories, Inc.	UL Roofing Materials and Systems Directory	File No. R11436 Fire Classification	Published Annually
	03NK36665	ASTM E 108	04/21/04

APPROVED ASSEMBLIES

Membrane Type: SBS

Deck Type 41: Lightweight Concrete, Insulated

Deck Description: Cellular or Aggregate Lightweight Concrete

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

All General and System limitations apply.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
AC Foam II, ENRGY 2, PSI 25		
Minimum 1.4" thick	**N/A**	**N/A**
Minimum 1.5" thick	**N/A**	**N/A**

Base or Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Toprox		
Minimum 1" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
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**
Fireguard, type X gypsum		
Minimum $^5/_8$" thick	**N/A**	**N/A**
Conperl, GAFTEMP Permalite, Fesco Board		
Minimum ¾" thick	**N/A**	**N/A**
Dens Deck		
Minimum ¼" 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, Pika Ply SS-2, GAFGLAS #75 or GAFGLAS Stratavent Nailable fastened to the deck as described below:

Fastening #1:	Attach anchor sheet using Olympic CR Base Ply Fasteners or ES FM-90 spaced 7" o.c. in a 4" lap and 7" o.c. in two staggered rows in the center of the sheet. ***(Maximum Design Pressure: –52.5 psf, See General Limitation #7.)***
Fastening #2:	Attach anchor sheet using Simplex or SFS Stadler Base-Lok fasteners spaced 9" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet. ***(Maximum Design Pressure: –52.5 psf, See General Limitation #7.)***
Fastening #3:	Attach anchor 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. ***(Maximum Design Pressure: –45 psf, See General Limitation #9.)***
Base Sheet:	(Optional) One or more 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) or one or more plies of Premium Ply, HK Glass Ply, ASTM D 2178 Type IV or 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, 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), Pika Ply MS-3G Cap Sheet, Pika Ply MS-3G (HP) Cap Sheet 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. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq. 2. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.
Maximum Design Pressure:	See Fastening Options Above

Membrane Type: SBS

Deck Type 4: Lightweight Concrete, Non-Insulated

Deck Description: Cellular or Aggregate Lightweight Concrete

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

All General and System Limitations apply.

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

Fastening #1: Attach base sheet using Olympic CR Base Ply Fasteners or ES FM-90 spaced 7" o.c. in a 4" lap and 7" o.c. in two staggered rows in the center of the sheet. ***(Maximum Design Pressure: –52.5 psf, See General Limitation #7.)***

Fastening #2: Attach base sheet using Simplex or SFS Stadler Base-Lok fasteners spaced 9" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet. ***(Maximum Design Pressure: –52.5 psf, See General Limitation #7.)***

Fastening #3: 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. ***(Maximum Design Pressure: –45 psf, See General Limitation #9.)***

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) or one or more plies of Premium Ply, HK Glass Ply, ASTM D 2178 Type IV or 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, 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), Pika Ply MS-3G Cap Sheet, Pika Ply MS-3G (HP) Cap Sheet 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. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.
2. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.

Maximum Design Pressure: See Fastening Options Above

Membrane Type: SBS

Deck Type 4: Lightweight Concrete, Non-Insulated

Deck Description: Cellular or Aggregate Lightweight Concrete, 300 psi

System Type E(2): Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of Multi-Ply Glass CL, Multi-Ply Glass, Performance Ply, Pika Ply SS-2, GAFGLAS #75, GAFGLAS Stratavent Nailable, 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.

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) or one or more plies of Premium Ply, HK Glass Ply, ASTM D 2178 Type IV or 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, 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), Pika Ply MS-3G Cap Sheet, Pika Ply MS-3G (HP) Cap Sheet 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. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.
2. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.

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

Membrane Type: SBS

Deck Type 4: Lightweight Concrete, Non-Insulated

Deck Description: Cellular or Aggregate Lightweight Concrete, 300 psi

System Type E(3): Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of 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.

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) or one or more plies of Premium Ply, HK Glass Ply, ASTM D 2178 Type IV or 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, or Pika Ply SS-3G (TG) or Pika Ply SS-3P (TG) torch applied.

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), Pika Ply MS-3G Cap Sheet, Pika Ply MS-3G (HP) Cap Sheet 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. Karnak 97 aluminum roof coating applied at an application rate of 1½ gal./sq.
2. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.

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

LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 250 psi.

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.)**

END OF THIS ACCEPTANCE