



**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)**

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**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 LWC**

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

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

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

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

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

This NOA consists of pages 1 through 9.  
The submitted documentation was reviewed by Frank Zuloaga, RRC



**NOA No.: 02-0208.02  
Expiration Date: 04/18/07  
Approval Date: 04/18/02  
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## ROOFING SYSTEM APPROVAL

<b>Category:</b>	Roofing
<b>Sub-Category:</b>	SBS, Modified Bitumen
<b>Deck Type:</b>	Lightweight Concrete
<b>Maximum Design Pressure</b>	<b>-52.5 psf</b>
<b>Fire Classification:</b>	See General Limitation #1

**TABLE 1**

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT

<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 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-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 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.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
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.
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.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
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**

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

**EVIDENCE SUBMITTED**

<u>Test Agency/Identifier</u>	<u>Report No.</u>	<u>Date</u>
Factory Mutual Research Corporation	J.I. 0PA2.AM	11.29.89
	J.I. 2P2A7.AM	11.29.89
	J.I. 1W8A1.AM	07.15.93
	J.I. 1Z3A6.AM	04.27.95
	J.I. 152A1.AM	11.28.84
	J.I. 2D0A0.AM	08.15.97
	J.I. 3001445	02.05.99
	J.I. 10.94.27	10.27.94
Dynatech Engineering Corp.	2491-04.95	01.04.95
	2003.02.97-1	02.15.97
Exterior Research & Design, LLC.	2003-2.04.97-1	04.15.97
	2002.07.97-1	08.15.97
		05.27.93
ITS / Warnock Hersey		



**APPROVED ASSEMBLIES:**

- Deck Type 4I:** Lightweight Concrete, Insulated, New Construction or Reroof
- Deck Description:** Cellular or Aggregate Lightweight Concrete
- System Type A:** Anchor sheet mechanically fastened; one or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

<u>Insulation Base Layer</u>	<u>Fastener Density ft<sup>2</sup></u>	<u>Fastener Type</u>
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One or more layers of the following:

<b>AC Foam II</b> Minimum: 1.5" thick	N/A	N/A
<b>E'NRG'Y-2</b> Minimum: 1.4" thick	N/A	N/A

<u>Insulation Base or Top Layer</u>	<u>Fastener Density ft<sup>2</sup></u>	<u>Fastener Type</u>
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One or more layers of the following:

<b>Toprox</b> Minimum: 1" thick	N/A	N/A
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<u>Insulation Top Layer</u>	<u>Fastener Density ft<sup>2</sup></u>	<u>Fastener Type</u>
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<b>BP High Strength, FM-90 Traffic Top/High Density, GAFTEMP High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek</b> Minimum: 1/2" thick	N/A	N/A
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<b>Celotherm, Conperl, GAFTEMP Permalite, Fesco Board</b> Minimum: 3/4" thick	N/A	N/A
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<b>Dens Deck</b> Minimum: 1/4" thick	N/A	N/A
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<b>Fireguard, type X gypsum</b> Minimum: 5/8" thick	N/A	N/A
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**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<sup>2</sup>. 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 face 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 #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.
- 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.
- 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:** –52.5 psf; (See General Limitation #7)



**Deck Type 4:** Lightweight Concrete, New Construction or Reroof

**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 or Pika Ply SS-2 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.

**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.

**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:** -52.5 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 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



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