



**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 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 the BCCO and accepted by the Building Code and Product Review Committee 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 BCCO (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. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO 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 South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

### **DESCRIPTION: APP Modified Bitumen over Concrete Decks**

**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 15.

The submitted documentation was reviewed by Frank Zuloaga, RRC



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## ROOFING ASSEMBLY APPROVAL

<b>Category:</b>	Roofing
<b>Sub-Category:</b>	Modified Bitumen
<b>Materials</b>	SBS/APP/TPO
<b>Deck Type:</b>	Concrete
<b>Maximum Design Pressure</b>	-622.5 psf (See Specific System Herein)
<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 SA-3	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a smooth or sanded top surface.
Pika Ply SA-4	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.
Pika Ply MA-4	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface and fire retardant chemistry.
Pika Ply Premium MA-4	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a smooth or sanded top surface and fire retardant chemistry.
Multi-Ply Glass CL	36" x 72"	ASTM D 2178	Tri-laminated polyester / glass / polyester mat coated with asphalt.
Multi-Ply Glass	36" x 72"	ASTM D 2178	Fiberglass sheet coated with asphalt.
HK Glass Ply	36" x 180"	ASTM D 2178	Type IV fiberglass base and/or ply sheet.
Premium Ply	36" x 180"	ASTM D 2178	Type VI fiberglass ply sheet.

**TABLE 2**

### TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS

<u>Product</u>	<u>Product Description</u>	<u>Manufactured (with current NOA)</u>
ACFoam II	Polyisocyanurate foam insulation	Atlas Roofing Corp.
Armor Board Regular Fiberboard	Wood fiber insulation board	Honeywell International, Inc.
Armor Board High Density Fiberboard	Wood fiber insulation board	Honeywell International, Inc.
Standard or Wide Flute Armor R Glass	Glass fiber Insulation board	Honeywell International, Inc.



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<u>Product</u>	<u>Product Description</u>	<u>Manufactured (with current NOA)</u>
ConPerl	Expanded perlite mineral fiber	Conglas
Dens Deck	Water resistant gypsum	G-P Gypsum Corp.
E'NRG'Y-2	Polyisocyanurate foam insulation	Johns Manville Corp.
Esgard Fiberboard Roof Insulator	Regular or asphalt coated wood fiber insulation board	EMCO Ltd.
Standard or Wide Flute Fiberglass Roof Insulation	Glass fiber Insulation board	Johns Manville Corp.
Fesco Board	Expanded perlite mineral fiber	Johns Manville Corp.
Firebond	Type x gypsum	United States Gypsum Co.
Fiber Base HD1	Asphalt emulsion coated wood fiber insulation board	Temple Inland Forest Products Corp.
Fiber Base HD6	Asphalt emulsion coated wood fiber insulation board	Temple Inland Forest Products Corp.
GAFTEMP Fiberboard	Wood fiber insulation board	GAF Materials Corp.
GAFTEMP High Density Fiberboard	Wood fiber insulation board	GAF Materials Corp.
GAFTEMP Permalite	Expanded mineral fiber insulation board	GAF Materials Corp.
H-Shield	Polyisocyanurate foam insulation	Hunter Panels LLC.
H-Shield P	Polyisocyanurate foam insulation	Hunter Panels LLC.
Tapered H-Shield	Polyisocyanurate foam insulation	Hunter Panels LLC.
High Density Fiberboard, Traffic Top Fiberboard	Wood fiber insulation board	The Celotex Corp.
Celotherm	Perlite insulation board	The Celotex Corp.
Fiberboard	Wood fiber insulation board	The Celotex Corp.
Fiberboard Flat Top	Wood fiber insulation board	The Celotex Corp.
Hy-Therm AP Roof Insulation	Polyisocyanurate foam insulation	The Celotex Corp.
Hy-Therm(a) AP Roof Insulation	Polyisocyanurate foam insulation	The Celotex Corp.
Huebert Fiberboard	Wood fiber insulation board	Huebert Fireboard, Inc.
Kop-R Wood Fiber	Polyisocyanurate foam insulation	Koppers Industries, Inc.
Multi-Max FA	Polyisocyanurate foam insulation	Rmax, Inc.
Thermarroof Composite	Polyisocyanurate foam insulation, Top; perlite, ½ in. (13mm), bottom	Rmax, Inc.
Permalite	Expanded perlite insulation board	Building Materials Corp of America
Structodeck	Wood fiber insulation board	Masonite



**Table 3**

**APPROVED FASTENERS:**

<u>Product</u>	<u>Description</u>	<u>Dimensions</u>	<u>Manufacturer</u>
Dekfast #12, #14 or #15	Carbon Steel, Senti (black)	Various	Construction Fasteners, Inc. (with current NOA)
Omega	Stainless Steel, carbon steel tip, Senti (gray)	#14dia. by 8 in. (203mm) max length	Construction Fasteners, Inc. (with current NOA)
HWH Dekfast	Carbon Steel, Senti (black)	#12 dia. by 3.75 in. (95mm) max length	Construction Fasteners, Inc. (with current NOA)

**EVIDENCE SUBMITTED:**

<u>Test Agency/Identifier</u>	<u>Report No.</u>	<u>Date</u>
Factory Mutual Research Corporation	J.I. 2W7A7.AM	08.04.94
	J.I. 3001334	02.15.00
	J.I. 3000857	01.12.00
	J.I. 3004091	01.12.00
Exterior Research & Design, LLC.	#11752.09.99-1	02.08.00
	#11772.08.00-1	08.14.00



**APPROVED ASSEMBLIES:**

**Deck Type 3I:** Concrete Decks, Insulated, New Construction or Reroof

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type A:** All layers of insulation adhered with approved asphalt. Base sheet adhered to insulation.

All General and System limitations apply.

<u>Insulation Base Layer</u>	<u>Fastener Density ft<sup>2</sup></u>	<u>Fasteners Type</u>
One or more layers of any of the following insulations: <b>E'NRG'Y-2, ACfoam-II</b> Minimum: 1.5" thick	N/A	N/A
<u>Insulation Top Layer</u>	<u>Fastener Density ft<sup>2</sup></u>	<u>Fasteners Type</u>
One or more layers of any of the following insulations: <b>Fesco Board</b> Minimum: ¾" thick	N/A	N/A
<b>High Density Wood Fiberboard</b> Minimum: ½" thick	N/A	N/A
<b>Dens Deck</b> Minimum: ¼" thick	N/A	N/A

**Note:** Concrete deck 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 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 used as a top layer shall be placed with the Polyisocyanurate side facing down.

**Base Sheet:** (Optional if using 1 to 3 plies of ply sheet noted below) One ply of Multi-Ply Glass CL or Multi-Ply Glass 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 ply of Multi-Ply Glass CL or Multi-Ply Glass or one to three plies of HK Glass Ply Premium or Premium Ply adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Membrane:** One ply of Pika Ply SA-3, Pika Ply SA-4, Pika Ply MA-4 or Pika Ply Premium MA-4 torch applied.

**Surfacing:** (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq., respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.



3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

**Maximum Design  
Pressure:**

**-290 psf (for Fesco Board) (See General Limitation #9)**

**-557.5 psf (for High Density Wood Fiberboard) (See General Limitation #9)**

**-622.5 psf (for Dens Deck) (See General Limitation #9)**



**Deck Type 3I:** Concrete Decks, Insulated, New Construction or Reroof

**Deck Description:** 2500 psi structural concrete or concrete plank

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

All General and System Limitations apply.

<u>Insulation Base Layer</u>	<u>Fastener Density ft<sup>2</sup></u>	<u>Fasteners Type</u>
One or more layers of the following:		
H-Shield, H-Shield P		
Minimum: 1.5" thick	1:4	See Approved Fasteners 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 RAS 117 for fastening details.

<u>Insulation Top Layer</u>	<u>Fastener Density ft<sup>2</sup></u>	<u>Fastener Type</u>
Celotherm, ConPerl, GAFTEMP Permalite, Permalite or Fesco Board		
Minimum: 3/4" 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 ft<sup>2</sup>. Refer to RAS 117 for insulation attachment. Composite insulation boards used, as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** (Optional if using 1 to 3 plies of ply sheet noted below) One ply of Multi-Ply Glass CL or Multi-Ply Glass 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 ply of Multi-Ply Glass CL or Multi-Ply Glass or one to three plies of HK Glass ply or Premium Ply adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Membrane:** One ply of Pika Ply SA-3, Pika Ply SA-4, Pika Ply MA-4 or pika Ply Premium MA-4 torch applied

**Surfacing:** (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq., respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

**Maximum Design Pressure:** -45 psf; (See general limitation #9.)



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**Deck Type 3I:** Concrete Decks, Insulated, New Construction or Reroof

**Deck Description:** 2500 psi structural concrete or concrete plank

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

All General and System Limitations apply.

<u>Insulation Layer</u>	<u>Fastener Density ft<sup>2</sup></u>	<u>Fastener Type</u>
One or more layers of the following:		
<b>Fiberbond</b> Minimum: 5/8" thick	N/A	N/A
<b>Armor Board Regular Fiberboard, Armor Board High Density Fiberboard, Esgard Fiberboard Roof Insulator, Fiberboard, High Density Fiberboard, Traffic Top Fiberboard, High Density Roof Fiberboard, GAFTEMP Fiberboard, GAFTEMP High Density Fiberboard, Huebert Fiberboard, Kop-R Wood Fiber, Fiber Base HD1, Fiber Base HD6, Structodek</b> Minimum: 1/2" thick	N/A	N/A
<b>Celotherm, ConPerl, GAFTEMP Permalite, Permalite or Fesco Board</b> Minimum: 3/4" thick	N/A	N/A
<b>ACFoam II, Hy-Therm AP Roof Insulation, Hy-Therm(a) AP Roof Insulation, Multi-Max FA, H-Shield, Tapered H-Shield, Thermarroof Composite.</b> Minimum: 1.5" thick	N/A	N/A
<b>Standard or Wide Flute Armor-R Glass, Standard or Wide Flute Fiberglas Roof Insulation, Standard or Wide Flute Fiber Glass Roof Insulation</b> Minimum: 15/16" thick	N/A	N/A

**Note:** Top layer shall have preliminary attachment, prior to installation of the base sheet, at an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density.

**Base Sheet:** One ply of Multi-Ply Glass CL or Multi-Ply Glass fastened to the deck as described below:

**Fastening:** Attach base sheet using CF Dekfast Hex Plates or Dekfast Autaset Plates with #14 Dekfast fasteners spaced 12" o.c. in a 4" lap and 18" o.c. in two equally spaced staggered rows in the center of the sheet.

**Ply Sheet:** (Optional) One ply of Multi-Ply Glass CL or Multi-Ply Glass or one to three plies of HK Glass Ply or Premium Ply adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Membrane:** One ply of Pika Ply SA-3, Pika Ply SA-4, Pika Ply MA-4 or Pika Ply Premium MA-4 torch applied.

**Surfacing:** (Optional) Install one of the following to obtain required fire classification.  
1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq., respectively, in a flood coat of approved asphalt at 60 lbs./sq.



2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibrated Aluminum Coating at 1½ gal/sq.

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



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**Deck Type 2I:** Concrete Decks, Insulated, New Construction or Reroof

**Deck Description:** 2500 psi structural concrete or concrete plank

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

All General and System Limitations apply.

<u>Insulation Layer</u>	<u>Fastener Density ft<sup>2</sup></u>	<u>Fastener Type</u>
One or more layers of the following: <b>H-Shield, H-Shield-P, ACFoam II</b> Minimum: 1.5" thick	N/A	N/A
<b>Fesco Board</b> Minimum: ¾" thick	N/A	N/A
<b>Fiberboard, Flat Top Fiberboard, Esgard Fiberboard Roof Insulator, High Density Fiberboard, Huebert Fiberboard, Structodek, Fiberboard Roof Insulation, High Density Fiberboard Roof Insulation</b> Minimum: 1" thick	N/A	N/A

**Note:** Top layer shall have preliminary attachment, prior to installation of the base sheet, at an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density.

**Base Sheet:** One ply of Pika Ply SA-3 or Pika Ply SA-4 mechanically fastened to the deck as described below:

**Fastening #1:** Attach base sheet using CF Dekfast 2 ½" HS Membrane Plates and #14 Dekfast fasteners spaced 18" o.c. side laps at a maximum of 37" apart with a minimum 5" wide side lap. The side lap is either torch or hot air welded closed.

**Fastening #2:** Attach base sheet using CF Dekfast 2 ½" HS Membrane Plates and #14 Dekfast fasteners spaced 12" o.c. in a minimum 6" wide side laps. The side lap is either torch or hot air welded closed.

**Ply Sheet:** None.

**Membrane:** One ply of Pika Ply SA-3, Pika Ply SA-4, Pika Ply MA-4 or Pika Ply Premium MA-4 torch applied.

**Surfacing:** (Optional) Install one of the following to obtain required fire classification.  
 1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq., respectively, in a flood coat of approved asphalt at 60 lbs./sq.  
 2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.



3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

**Maximum Design Pressure:**                    **-82.5 psf (See General Limitation #7.)**



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**Deck Type 3:** Concrete Decks, Non-insulated, New Construction or Reroof

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type E(1):** Base sheet mechanically attached.

**All General and System Limitations apply.**

**Base Sheet:** One ply of Multi-Ply Glass CL or Multi-Ply Glass fastened to the deck as described below:

**Fastening:** Attach base sheet using CF Dekfast Hex Plates or Dekfast Autoset Plates with #14 Dekfast fasteners spaced 12" o.c. in a 4" lap and 18" o.c. in two equally spaced staggered rows in the center of the sheet.

**Ply Sheet:** (Optional) One ply of Multi-Ply Glass CL or Multi-Ply Glass or one to three plies of HK Glass Ply or Premium Ply adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 2040 lbs./sq.

**Membrane:** One ply of Pika Ply SA-3, Pika Ply SA-4, Pika MA-4 or Pika Ply Premium MA-4 torch applied.

**Surfacing:** (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq., respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

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



**Deck Type 3:** Concrete Decks, Non-insulated, New Construction or Reroof

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type E(2):** Base sheet mechanically attached.

**All General and System Limitations apply.**

**Base Sheet:** One ply of Pika Ply SA-3 or Pika Ply SA-4 mechanically fastened to the deck as described below:

**Fastening #1** Attach base sheet using CF Dekfast 2½” HS Membrane Plates and #14 Dekfast fasteners spaced 18” o.c. side laps at a maximum of 37” part with a minimum 5” wide side lap. The side lap is either torch or hot air welded closed.

**Fastening #2:** Attach base sheet using CF Dekfast 2½” HS Membrane Plates and #14 Dekfast fasteners spaced 12” o.c. in a minimum 6” wide side lap. The side lap is either torch or hot air welded closed.

**Ply Sheet:** None

**Membrane:** One ply of One Ply of Pika ply SA-3, Pika Ply SA-4, Pika Ply MA-4 or Pika Ply Premium MA-4 torch applied.

**Surfacing:** (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq., respectively, in a flood coat of approved asphalt at 60 lb./sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

**Maximum Design Pressure:** -82.5 psf (See General Limitation #7.)



**Deck Type 3:** Concrete Decks, Non-Insulated, New Construction or Reroof

**Deck Description:** 2500 psi structural concrete or concrete plank

**System Type F (1):** Optional base sheet fully adhered with approved asphalt

**All General and System Limitations apply.**

**Note:** Concrete deck 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 within the EVT range and at a rate of 20-40-lbs./100 ft<sup>2</sup>. Please refer to RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layer 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 if using 1 to 3 plies of ply sheet noted below) One ply of the Multi-Ply Glass CL or Multi-Ply Glass 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 ply of Multi-Ply Glass CL or Multi-Ply Glass or one to three plies of HK Glass Ply or Premium Ply adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

**Membrane:** One ply of Pika Ply SA-3, Pika Ply SA-4, Pika Ply MA-4 or Pika Ply Premium MA-4 torch applied.

**Surfacing:** (Optional) Install one of the following to obtain required fire classification.

1. Gravel or slag at 400 lbs./sq. or 300 lbs./sq., respectively, in a flood coat of approved asphalt at 60 lbs./sq.
2. Karnak 97 Fibrated Aluminum Asphalt Roof Coating or Asbestos Free Aluminum Roof Coating at 1½ gal/sq.
3. Kokem Products Sunguard Acrylic Roof Coating at 1 gal/sq.
4. Monsey Endure Aluminum Roof Coating, Weather Check or Pro-Grade Aluminum Roof Coating at 1½ gal/sq.
5. Grundy al MB Aluminum Roof Coating at 1-2 gal/sq.
6. Fields F350 Heat Shield Aluminum Coating or F630 Heat Shield Fibered Aluminum Coating at 1½ gal/sq.

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



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## CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine 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.

## 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 insulation 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 TAS No. 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 Engineer or Architect may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Miami-Dade TAS No. 105 and calculations in compliance with Miami-Dade RAS No. 117.
- 7 Perimeter and corner areas shall comply with the enhanced uplift pressure of these areas, as calculated in compliance with Chapter 23 of the South Florida Building Code. Fastener densities shall be increase for both insulation and base sheet as calculated in compliance with Miami-Dade RAS No. 117. **(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 Miami-Dade RAS No. 111 and the wind load requirements of Chapter 23 of the South Florida Building Code.
- 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



NOA No.: 00-1114.14  
Expiration Date: 12/27/06  
Approval Date: 12/27/01  
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