



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

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

NOTICE OF ACCEPTANCE (NOA)

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

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by 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 Wood Deck

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 19.
The submitted documentation was reviewed by Frank Zuloaga, RRC.



**NOA No: 01-1116.01
Expiration Date: 12/27/06
Approval Date: 12/27/01
Page 1 of 19**

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	SBS/APP/TPO, Modified Bitumen
Deck Type:	Wood
Maximum Design Pressure	-82.5 psf
Fire Classification:	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 smooth or sanded 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
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	Type IV fiberglass base and/or ply sheet
Premium Ply	36" x 180'	ASTM D 2178 Type VI	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>
Any approved Polyisocyanurate	Polyisocyanurate foam insulation	Generic
Fesco Board	Expanded perlite mineral fiber	Johns Manville Corp.
Dens Deck	Water resistant gypsum	G-P Gypsum Corp.
ENERG'Y-2	Polyisocyanurate foam insulation	Johns Manville Corp.

TABLE 3

APPROVED FASTENERS

<u>Products</u>	<u>Description</u>	<u>Dimensions</u>	<u>Manufacturer (with current NOA)</u>
Dekfast #12, #14 or #15 (with Hex Plates)	Carbon, Steel Senti (black)	Various	Construction Fasteners, Inc.



<u>Products</u>	<u>Description</u>	<u>Dimensions</u>	<u>Manufacturer (with current NOA)</u>
Tru-Fast HD (with MP-3 Plates)	Carbon Steel Tru-Kote Coating or Trimrite Stainless	#14, 1 ½ to 12 in. (3.2 to 30.5cm)	The Tru- Fast Corporation
Insul-Fixx HD (with IFC/IW Plates)	Steel, Tuff-Tite (black or purple)	#14dia. by 12 in.(305mm) max. length	SFS Stadler, Inc.

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.	#11757.12.00-1	12.07.00
	#11757.04.01-1	04.25.01



APPROVED ASSEMBLIES:

Deck Type II:	Wood, Insulated, New Construction
Deck Description:	¹⁹ / ₃₂ " or greater plywood or wood plank, fastened with wood screws fastened at 6" o.c.
System Type A:	All insulation layers are adhered, to a mechanically attached anchor sheet. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

<u>Insulation Base Layer</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
One or more layers of the following: Any approved Polyisocyanurate Minimum: 1" 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 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

<u>Insulation Top Layer</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
Fesco Board Minimum: ¾" thick	N/A	N/A
High Density Wood Fiber Minimum: ½" thick	N/A	N/A
Dens Deck Minimum: ¼" thick	N/A	N/A

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

Anchor Sheet:	One or more plies of Multi-Ply CL fastened to the deck as described below:
Fastening:	Attach base sheet using Buildex Roofgrip Fasteners and Flat Bottom Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.



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

Membrane: One or more plies 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: -60 psf; (See general limitation #7.)



Deck Type 1I: Wood, Insulated, New Construction

Deck Description: ¹⁹/₃₂" or greater plywood or wood plank, fastened with wood screws fastened at 6" o.c.

System Type A(2): All insulation layers are adhered, to a mechanically attached anchor sheet. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

<u>Insulation Base Layer</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
One or more layers of the following: Any approved Polyisocyanurate Minimum: 1" 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 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.		

<u>Insulation Top Layer</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
Fesco Board Minimum: 3/4" thick	N/A	N/A
High Density Wood Fiber Minimum: 1/2" thick	N/A	N/A
Dens Deck Minimum: 1/4" thick	N/A	N/A

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

Anchor Sheet: One or more plies of Certainteed Glasbase, Multi Ply Glass CL, Multi-Ply Glass Firestone MB Base, JM Perma-Ply #28, Tamko Glass Base or GAFGLAS #75 fastened to the deck as described below:

Fastening #1: Attach base sheet using 11 ga. annular ring shank and 1-5/8" diameter tin caps spaced 8" o.c. in a 4" lap and 8" o.c. in two equally spaced staggered rows in the center of the sheet.



Fastening #2: Attach base sheet using Dekfast #14 with Hex Plates or Tru-Fast HD with MP-3 Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

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

Membrane: One or more plies 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.

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



- Deck Type II:** Wood, Insulated, New Construction
- Deck Description:** ¹⁹/₃₂" or greater plywood or wood plank, fastened with wood screws fastened at 6" o.c.
- 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 ft²</u>	<u>Fastener Type</u>
One or more layers of the following: E'NRG'Y-2 Minimum: 1.5 thick	1:1.33	See Any Approved Fasteners in Table 3

Note: Base layer shall be mechanically attached with fasteners and density described. 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).

<u>Insulation Top Layer</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
Fesco Board Minimum: ¾" thick	N/A	N/A
High Density Wood Fiber Minimum: ½" 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 boards used as a top layer shall be installed with the polyisocyanurate face down.

- Base Sheet:** (Optional if using ply sheet in hot asphalt) One or more plies of Multi-Ply Glass CL, Multi-Ply Glass, Modibase, Perma Ply No. 28 or GAFGLAS #75 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 if using base sheet in hot asphalt) One or more plies of Pika Ply SA-3 or Pika Ply SA-4 or one to more plies of HK Glass Ply or Premium Ply adhered to the coverboard in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
- Membrane:** One or more plies 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 Fibrated Aluminum Coating at 1½ gal/sq.

Maximum Design Pressure: -60 psf; (See general limitation #7.)



Deck Type II: Wood, Insulated, New Construction

Deck Description: 19/32" or greater plywood or wood plank, fastened with wood screws fastened at 6" o.c.

System Type C(1): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

<u>Insulation Base Layer</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
One or more layers of the following: ENRG'Y 2 Minimum: 1.5" thick	1:1.33	See Any Approved Fasteners 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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: None

Ply Sheet: One or more plies of Pika Ply SA-3 smooth torch applied.

Membrane: One or more plies 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.)



Deck Type 1I: Wood, Insulated, New Construction

Deck Description: $1\frac{9}{32}$ " or greater plywood or wood plank, fastened with wood screws fastened at 6" o.c.

System Type C(2): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

One or more layers of the following:

<u>Insulation Base Layer</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
Any approved Polyisocyanurate Minimum: 1.5" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. 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. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<u>Insulation Top Layer</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
High Density Wood Fiber Minimum: $\frac{1}{2}$ " thick	1:1.33	See Any Approved Fasteners in Table 3
Dens Deck Minimum: $\frac{1}{4}$ " thick	1:1.33	See Any Approved Fasteners 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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional if using ply sheet in hot asphalt) One or more plies of Multi-Ply Glass Cl, Multi-Ply Glass, Modibase, Perma Ply No. 28 or GAFGLAS #75 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 if using base sheet in hot asphalt) One or more plies of Pika Ply SA-3, Pika Ply SA-4 torch applied or one ply of Multi-Ply Glass CL, Multi-Ply Glass, Modibase, Perma Ply No. 28, or one to more plies of HK Glass Ply or Premium Ply adhered to the coverboard 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: **-82.5 psf;** (See General limitation #7.)



Deck Type 1I: Wood, Insulated, New Construction

Deck Description: ¹⁹/₃₂" or greater plywood or wood plank, fastened with wood screws fastened at 6" o.c.

System Type D(1): All insulation layers are adhered, to a mechanically attached base sheet. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

<u>Insulation Base Layer</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
One or more layers of the following: Any approved Polyisocyanurate Minimum: 1" thick	N/A	N/A
<u>Insulation Top Layer</u> <u>(Optional)</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
Fesco Board Minimum: ¾" thick	N/A	N/A
High Density Wood Fiber Minimum: ½" thick	N/A	N/A
Dens Deck Minimum: ¼" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum 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.

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

Fastening: Attach base sheet using Buildex Roofgrip Fasteners and Flat Bottom Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One or more plies of Pika Ply SA-3 or Pika Ply SA-4 torch applied or one ply of Modibase, Perma Ply No. 28, or one or more plies of HK Glass Ply or Premium Ply adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One or more plies 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: **-60 psf;** (See General limitation #7.)



Deck Type 1I: Wood, Insulated, New Construction

Deck Description: ¹⁹/₃₂" or greater plywood or wood plank, fastened with wood screws fastened at 6" o.c.

System Type D(2): All insulation layers are adhered, to a mechanically attached base sheet. Membrane is subsequently adhered to insulation.

All General and System Limitations apply.

<u>Insulation Base Layer</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
One or more layers of the following: Any approved Polyisocyanurate Minimum: 1" thick	N/A	N/A
<u>Insulation Top Layer</u> <u>(Optional)</u>	<u>Fastener Density ft²</u>	<u>Fastener Type</u>
Fesco Board Minimum: ¾" thick	N/A	N/A
High Density Wood Fiber Minimum: ½" thick	N/A	N/A
Dens Deck Minimum: ¼" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum 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.

Base Sheet: One or more plies of Certainteed Glasbase, Multi-Ply Glass CL, Multi-Ply Glass, Firestone MB Base, JM Perma-Ply #28, Tamko Glass Base or GAFGLAS #75 fastened to the deck as described below:

Fastening Attach base sheet using Dekfast #14 with Hex Plates or Tru-Fast HD with MP-3 Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One or more plies of Pika Ply SA-3 or Pika Ply SA-4 torch applied or one ply of Modibase, Perma Ply No. 28, or one or more plies of HK Glass Ply or Premium Ply adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One or more plies 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: -52.5 psf; (See General limitation #7.)



Deck Type II: Wood, Non-Insulated, New Construction

Deck Description: $\frac{19}{32}$ " or greater plywood or wood plank, fastened with wood screws fastened at 6" o.c.

System Type E(3): Base sheet is mechanically attached to roof deck.

All General and System Limitations apply.

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

Fastening: Attach base sheet using Buildex Roofgrip Fasteners and Flat Bottom Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

Ply Sheet: (Optional) One or more plies of Pika Ply SA-3, Pika Ply SA-4 torch applied or one ply of Modibase, Perma Ply No. 28 or one or more plies of HK Glass Ply or Premium Ply adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One or more plies of Pika Ply SA-3, Pika Ply SA-4, Pika Ply MA-4, 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: -60 psf; (See General limitation #7.)



Deck Type 1I: Wood, Non-Insulated, New Construction

Deck Description: ¹⁹/₃₂" or greater plywood or wood plank, fastened with wood screws fastened at 6" o.c.

System Type E(4): Base sheet is mechanically attached to roof deck.

All General and System Limitations apply.

Base Sheet: One or more plies of Certaineed Glasbase, Multi-Ply Glass CL, Multi-Ply Glass, Firestone MB Base, JM Perma-Ply #28, Tamko Glass Base or GAFGLAS #75 fastened to the deck as described below:

Fastening #1: Attach base sheet using 11 ga. annular ring shank and 1-5/8" diameter tin caps spaced 8" o.c. in a 4" lap and 8" o.c. in two equally spaced staggered rows in the center of the sheet.

Fastening #2: Attach base sheet using Dekfast #14 with Hex Plates or Tru-Fast HD with MP-3 Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the center of the sheet.

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

Membrane: One or more plies 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: -60 psf, (See General Limitation #7)



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 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



NOA No: 01-1116.01
Expiration Date: 12/27/06
Approval Date: 12/27/01
Page 19 of 19