



**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 Florida Building Code and the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: W.P. Hickman Conventional Built-Up-Roof Systems Over Steel Decks**

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

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

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

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

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

This NOA renews and revises NOA No. 05-0921.21 and consists of pages 1 through 45.  
The submitted documentation was reviewed by Jorge L. Acebo



**NOA No.: 08-0714.04  
Expiration Date: 08/01/13  
Approval Date: 09/18/08  
Page 1 of 45**

## ROOFING ASSEMBLY APPROVAL

**Category:** Roofing  
**Sub-Category:** Built-Up Roofing  
**Material:** Fiberglass  
**Deck Type:** Steel  
**Maximum Design Pressure** -75 psf

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

TABLE 1

| <u>Product</u>              | <u>Dimensions</u>  | <u>Test Specification</u> | <u>Product Description</u>  |
|-----------------------------|--------------------|---------------------------|---|
| Aluminum Shield             | 5, 55 gallons      | ASTM D 1227<br>type I     | An asphalt based, asbestos free, non-fibrated aluminized coating. |
| ElastoShield                | 5, 55 gallons      | ASTM D 1227<br>Type III   | A polymer modified, asbestos free asphalt roofing emulsion.       |
| HK Aluminum Shield          | 5, 55 gallons      | ASTM D 1227<br>Type I     | Asphalt based, asbestos free non-fibered aluminum coating.        |
| HK Aluminum Shield Fibrated | 5, 55 gallons      | ASTM D 2824<br>Type III   | Asphalt based, asbestos free aluminized coating.                  |
| HK ReCoat                   | 5, 55 gallons      | ASTM D 1227<br>Type III   | An asphalt clay, asbestos free roofing emulsion.                  |
| BUR Plus™ 101               | 100 lb. kegs       | ASTM D 312                | Approved, Type III asphalt.                                       |
| BUR Plus™ 102               | 100 lb. kegs       | ASTM D 312                | Approved, Type III asphalt.                                       |
| BUR Plus™ 202               | 40 lb. boxes       | ASTM D 412                | Approved polymer modified asphalt.                                |
| BUR Plus™ 202A              | 42 lb. boxes       | ASTM D 412                | Approved polymer modified asphalt.                                |
| BUR Plus™ 303               | 40 lb. boxes       | ASTM D 412                | Approved modified SEBS asphalt.                                   |
| BUR Plus™ 404               | 40 lb. boxes       | ASTM D 312                | Approved, heavy modified SEBS asphalt.                            |
| BUR Plus™ 505               | 50 lb. boxes       | ASTM D 450                | Approved, modified coal tar pitch adhesive.                       |
| BUR Plus™ 606               | 42 lb. boxes       | Proprietary               | Approved polymer modified asphalt.                                |
| HK Tar Plus                 | 200 lb. kegs       | ASTM D 450                | Approved coal tar pitch.  |
| Multi-Ply Adhesive          | 5, 55 gallon       | Proprietary               | Asphalt based, asbestos free SEBS adhesive.                       |
| Multi-Ply Adhesive-SEBS     | 5, 55 gallon pails | proprietary               | Asphalt based, asbestos free SEBS modified adhesive.              |
| Pika Ply Adhesive           | 5, 55 gallon       | Proprietary               | Asphalt based, asbestos free SBS adhesive.                        |



|                             |                         |                     |  |
|-----------------------------|-------------------------|---------------------|--|
| Hickman Base Sheet Adhesive | 5, 55 gallon            | Proprietary         | Asphalt/Urethane moisture-cure adhesive.   |
| HK Tarred Felt              | 39.5" x 333'            | ASTM D 2626         | Organic roofing felt saturated with coal tar.  |
| HK Tarred Glass             | 39.5" x 333'            | ASTM D 4990         | Fiberglass sheet impregnated with coal tar.  |
| BUR Plus™ Polyester Ply     | 39.5" x 333'            | Proprietary         | A 170 gram/m <sup>2</sup> uncoated polyester ply sheet.                              |
| BUR Plus™ Polyester Ply 200 | 39.5" x 333'            | Proprietary         | A 200 gram/m <sup>2</sup> uncoated polyester ply sheet.                              |
| BUR Plus™ Polyester Ply 250 | 39.5" x 333'            | Proprietary         | A 250 gram/m <sup>2</sup> uncoated polyester ply sheet.                              |
| Multi-Ply Glass CL          | 36" x 72';              | ASTM D 4601         | Tri-laminated polyester/glass/polyester mat coated with asphalt.                     |
| Multi-Ply Glass CL /W       | 39 3/8" x 99' x 45 mils | ASTM D 5147         | SBS modified fiberglass reinforced base sheet.                                       |
| Multi-Ply Glass             | 36" x 108'              | ASTM D 4601         | 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.  |
| Performance Ply             | 39.5" x 72'             | Proprietary         | Polyester reinforced asphalt saturated ply sheet.                                    |
| Pika Ply Supreme FR         | 39" x 32.8'             | ASTM D 5147         | SBS/SIS/ES/SEBS, composite reinforced, granule surfaced cap sheet.                   |
| Pika Ply Supreme FR (HR)    | 39" x 32.8'             | ASTM D 5147         | SEB/SIS/ES/SEBS, composite reinforced, highly reflective granule surfaced cap sheet. |
| Pika Ply Supreme FR (TG)    | 39" x 32.8'             | ASTM D 5147         | SEB/SIS/ES/SEBS, composite reinforced, granule surfaced heat welded cap sheet.       |
| Pika Ply Supreme FR Smooth  | 39" x 32.8'             | ASTM D 5147         | SBS/SIS/ES/SEBS, composite reinforced, smooth surfaced ply or cap sheet.             |
| Pika Ply HI-TEC 60          | 39" x 67'               | ASTM D 5147         | Fiberglass/polyester reinforced asphalt saturated base/ply sheet.                    |
| Pika Ply HI-TEC 60 Type II  | 39" x 67'               | ASTM D 5147         | Fiberglass/polyester reinforced asphalt saturated base/ply sheet.                    |
| Pika Ply HI-TEC 80          | 39" x 49'               | ASTM D5147          | SBS, composite reinforced, smooth surface ply or cap sheet.                          |
| Pika Ply HI-TEC Granule     | 39" x 32.8'             | ASTM D5147          | SBS, composite reinforced, granule surfaced cap sheet.                               |



|                          |             |                        |  |
|--------------------------|-------------|------------------------|--|
| Arrowglas IV             | 36" x 180'  | ASTM D 2178<br>Type IV | Type IV fiberglass base and/or ply sheet                         |
| Arrowbase                | 36" x 108'  | ASTM D 4601            | Fiberglass sheet coated with asphalt.                            |
| Modified Arrowbase       | 36" x 72'   | ASTM D 4601            | Tri-laminated polyester/glass/polyester mat coated with asphalt. |
| Pika Ply SS-3P           | 39" x 32.8' | ASTM D 5147            | Polyester reinforced, smooth surface ply/cap sheet.              |
| Pika Ply SS-4            | 39" x 32.8' | ASTM D 5147            | Polyester reinforced, smooth surface ply/cap sheet.              |
| Pika Ply 350S            | 39" x 25'   | ASTM D 5147            | Polyester reinforced, smooth surface cap sheet.                  |
| Pika Ply MS-3G           | 39" x 32.8' | ASTM D 5147            | Fiberglass reinforced, fire retardant, granule cap sheet.        |
| Pika Ply 250 GR          | 39" x 32.8' | ASTM D 5147            | Polyester reinforced, fire retardant, granule cap sheet.         |
| Pika Ply MS-4            | 39" x 32.8' | ASTM D 5147            | Polyester reinforced, fire retardant, granule cap sheet.         |
| Performance Ply MS<br>FR | 39" x 33'   | ASTM D 5147            | Polyester reinforced, fire retardant, granule cap sheet.         |
| Performance Ply SS       | 39" x 35'   | ASTM D 5147            | Polyester reinforced, smooth surface ply/cap sheet.              |
| Premium Cap Sheet        | 39" x 32.8' | ASTM D 5147            | Fiberglass reinforced, granule cap sheet.                        |



**APPROVED INSULATIONS:**

**TABLE 2**

| <b>Product Name</b>                               | <b>Product Description</b>                               | <b>Manufacturer<br/>(With Current NOA)</b> |
|---|--|--|
| ACFoam II   | Polyisocyanurate foam insulation                         | Atlas Energy Products                      |
| ConPearl  | Expanded perlite mineral fiber                           | Conglas                                    |
| Esgard Fiberboard                                 | Wood fiber board   | EMCO Ltd.                                  |
| BP High Strength Fiberboard                       | High Density Wood fiber Board                            | EMCO Ltd.                                  |
| GAF Permalite                                     | Expanded mineral fiber                                   | GAF Mat'l. Corp.                           |
| GAF Fiberboard                                    | Wood fiber board   | GAF Mat'l. Corp.                           |
| GAFTEMP High Density Fiberboard                   | High density wood fiberboard insulation.                 | GAF Mat'l. Corp.                           |
| Wood Fiberboard                                   | Regular wood fiber insulation                            | Generic                                    |
| High Density Wood Fiberboard                      | High Density Wood fiber Board                            | generic                                    |
| Perlite Insulation                                | Perlite insulation board                                 | generic                                    |
| Hubert Fiberboard                                 | Wood fiber board   | Huebert Fiberboard, Inc.                   |
| ENRGY-1, ENRGY-2, Plus,<br>UltraGard Gold, PSI-25 | Polyisocyanurate foam insulation                         | Johns Manville                             |
| FiberGlass Roof Insulation                        | Glass fiber/Mineral fiber insulation                     | Johns Manville                             |
| Fesco Board                                       | Expanded mineral fiber insulation                        | Johns Manville                             |
| ISORoc  | Polyisocyanurate foam / rockwool<br>composite insulation | Johns Manville                             |
| Structodek, Structodek FS                         | High Density Wood Fiber insulation<br>board.             | Masonite                                   |
| Paroc Cap Board                                   | Rockwool insulation                                      | Partek, Inc.                               |
| Multi-Max, FA                                     | Polyisocyanurate foam insulation                         | Rmax, Inc.                                 |
| Fiber Base  | Asphalt coated wood fiber insulation                     | Temple Inland Forest<br>Products Corp.     |



**APPROVED FASTENERS:**

**TABLE 3**

| <b>Fastener Number</b> | <b>Product Name</b>        | <b>Product Description</b>                   | <b>Dimensions</b>       | <b>Manufacturer (With Current NOA)</b> |
|------------------------|----------------------------|--|-------------------------|--|
| 1.                     | #12 & #14 Dekfast Fastener | Insulation fastener                          |                         | Construction Fasteners, Inc.           |
| 2.                     | Dekfast Hex Plate          | Galvalume AZ50 steel plate                   | 2 7/8" x 3 1/4"         | Construction Fasteners, Inc.           |
| 3.                     | Dekfast Lock Plate         | Polypropylenel plate                         | 3" x 3 1/4"             | Construction Fasteners, Inc.           |
| 4.                     | #12 Roofgrip Fasteners     | Insulation fastener for wood and steel.      |                         | ITW Buildex Corp.                      |
| 5.                     | AccuTrac Hextra Fasteners  | Insulation fastener for wood and steel       |                         | ITW Buildex Corp.                      |
| 6.                     | Metal Plate                | Galvalume stress plate.                      | 3" round<br>3" square   | ITW Buildex Corp.                      |
| 7.                     | Gearlok Plastic Plate      | Polypropylene round plate                    | 3.2"                    | ITW Buildex Corp.                      |
| 8.                     | UltraFast                  | Insulation fastener for wood and steel.      |                         | Johns Manville                         |
| 9.                     | UltraFast Metal Plate      | Galvalume AZ55 steel plate                   | 3" square &<br>3" round | Johns Manville                         |
| 10.                    | UltraFast Plastic Plate    | High Density Polyolefin round plate          | 3" round                | Johns Manville                         |
| 11.                    | Olympic Fastener #12 & #14 | Insulation fastener                          |                         | Olympic Mfg. Group, Inc.               |
| 12.                    | Olympic Standard           | Galvalume AZ50 steel plate                   | 3" round                | Olympic Mfg. Group, Inc.               |
| 13.                    | Olympic                    | Polypropylene round plate                    | 3" round                | Olympic Mfg. Group, Inc.               |
| 14.                    | Olympic G-2                | Galvalume AZ55steel plate                    | 3.5" round              | Olympic Mfg. Group, Inc.               |
| 15.                    | Insul-Fixx Fastener        | Insulation fastener for steel and wood decks |                         | SFS Stadler, Inc.                      |
| 16.                    | Insul-Fixx S Plate         | Galvalume AZ50 steel plate                   | 3" round                | SFS Stadler, Inc.                      |
| 17.                    | Tru-Fast Fasteners         | Insulation fastener for wood and steel decks |                         | The Tru-Fast Corp.                     |
| 18.                    | Tru-Fast MP-3              | Galvalume AZ50 steel plate                   | 3" round                | The Tru-Fast Corp.                     |
| 19.                    | Tru-Fast Plates            | Galvalume AZ55 steel plate                   | 3" round                | The Tru-Fast Corp.                     |
| 20.                    | Tru-Fast Plates            | Polyethylene plastic plate                   | 3" round                | The Tru-Fast Corp.                     |



## APPROVED SURFACING/COATING OPTIONS:

TABLE 4

| System Number | Application  |
|---------------|--|
| 1.            | 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved asphalt at a rate of 40 lb./sq. or in a flood coat of BUR Plus 505 or HK Tar Plus at a rate of 75 lbs./sq.  |
| 2.            | 400 lb./sq. gravel or 300 lb./sq. slag in Multi-Ply Adhesive or Multi-Ply Adhesive SEBS at a rate of 4-5 gal./sq.  |
| 3.            | 60 lbs. of roofing granules embedded in Multi-Ply Adhesive at a rate of 3-4 gal./sq.   |
| 4.            | ElastoShield or HK ReCoat at a rate of 5 gal./sq. followed by HK Aluminum Shield at a rate of 0.75gal./sq.   |
| 5.            | HK Aluminum Shield Fibrated at a rate of 1.5-2.0 gal./sq.  |
| 6.            | Gravel or slag at 400 lbs. or 300 lbs./sq., respectively, adhered with approved asphalt at an application rate of 60 lbs./sq.  |
| 7.            | Gravel at 400 lbs./sq., adhered with Hickman Weatherizer KV at an application rate of 3-4 gal./sq., or Multi-Ply Adhesive or Pika Ply Adhesive at an application rate of 4-5 gal/sq.   |
| 8.            | Gravel at 400 lbs./sq., adhered with Tarshield WB at an application rate of 4-5 gal./sq.   |
| 9.            | Gravel at 500 lbs/sq., adhered in HK Tarshield at a rate of 5-7 gal/sq.  |
| 10.           | One coat of Hickman Weatherizer KV at an application rate of 3 gal/sq, followed by one coat of Hickman White Roof Coating Base Coat at an application rate of 1 gal/sq. and one coat of Hickman White Roof Coating at an application rate of 1 gal/sq. |
| 11.           | One coat of Hickman White Roof Coating Base Coat at an application rate of 1.5 gal/sq. and one coat of Hickman White Roof Coating at an application rate of 1.5 gal/sq.  |
| 12.           | One coat of Hickman Weatherizer KV at an application rate of 3 gal/sq., followed by one coat of HK Aluminum Shield Fibrated at an application rate of 2-2.5 gal/sq.  |
| 13.           | HK Aluminum Shield Fibrated at an application rate of 2-2.5 gal/sq.  |
| 14.           | One coat of HK Aluminum Shield Fibrated at an application rate of 2-2.5 gal/sq., followed by one coat of HK Aluminum Shield at an application rate of 0.25 gal/sq.   |



**EVIDENCE SUBMITTED:**

| <u>Test Agency</u>              | <u>Test Identifier</u> | <u>Test Name/Report</u> | <u>Date</u> |
|---------------------------------|------------------------|-------------------------|-------------|
| Factory Mutual                  | FMRC 4470              | J.I. 1V9A3.AM           | 11/07/92    |
|                                 | FMRC 4470              | J.I. 0W7A4.AM           | 02/09/93    |
|                                 | FMRC 4470              | J.I. 0X2A0.AM           | 03/30/93    |
|                                 | FMRC 4470              | J.I. 0P3A6.AM           | 01/15/88    |
|                                 | FMRC 4470              | J.I. 1R4A2.AM           | 03/14/90    |
|                                 | FMRC 4470              | J.I. 1R6A2.AM           | 04/21/91    |
|                                 | FMRC 4470              | J.I. 1T7A2.AM           | 02/28/92    |
|                                 | FMRC 4470              | J.I. 1T7A1.AM           | 01/10/92    |
|                                 | FMRC 4470              | J.I. 0X0A9.AM           | 03/25/94    |
|                                 | FMRC 4470              | J.I. 0W6A2.AM           | 02/05/93    |
|                                 | FMRC 4470              | J.I. 0X7A4.AM           | 08/26/93    |
|                                 | FMRC 4470              | J.I. 3Y4A1.AM           | 09/20/95    |
|                                 | FMRC 4470              | J.I. 4D9A5.AM           | 01/15/99    |
|                                 | FMRC 4470              | J.I. 1D7A4.AM           | 11/09/98    |
|                                 | FM 4470                | 3017068                 | 03/24/05    |
|                                 | FM 4470                | 3020937                 | 06/22/05    |
|                                 | FM 4470                | 3026965                 | 02/02/07    |
| FM 4470                         | 3031669                | 12/31/07                |             |
| Warnock Hersey                  | ASTM E 108             | 495-R-0344              | 01/01/90    |
|                                 | ASTM E 108             | 495-R-0400              | 01/01/90    |
|                                 | ASTM E 108             | 495-R-0430              | 01/01/90    |
|                                 | ASTM E 108             | 495-R-0447              | 01/01/90    |
|                                 | ASTM E 108             | 495-R-0526              | 01/01/90    |
|                                 | ASTM E 108             | 495-R-0400A             | 01/01/90    |
| Exterior Research & Design, LLC | TAS 114(J)             | #4473.10.97-1           | 11/17/97    |



**APPROVED ASSEMBLIES:**

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Steel

**System Type A(1):** One or more layers of insulation adhered with approved adhesive or asphalt.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u>  | <u>Insulation Fasteners</u><br><u>(Table 3)</u> | <u>Fastener</u><br><u>Density/ft<sup>2</sup></u> |
|---|---|--|
| <b>Structodek High Density Fiberboard, GAFTEMP High Density Fiberboard, Roof Insulating Board, Fiber Base HD1, HD6, Stuctodek, Esgard 1", Structodek Premium Fiberboard, GAFTEMP Fiberboard, Huebert Fiberboard</b><br>Maximum 1" thick | N/A   | N/A  |
| <b>ConPerl, GAFTEMP Permalite Roof Insulation, Fesco Board</b><br>Maximum 1" thick  | N/A   | N/A  |

**Note:** All insulation shall be adhered to the existing BUR with a full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup> or Insta-Stik applied in continuous 3/4" to 1" wide ribbons at a maximum spacing of 12" o.c., or full coating of SPRAY N' GRIP. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** (Optional)  
One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Ply Sheet:** (Optional, required if no base sheet used)  
One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.



- Membrane:** (Optional, Required if less than three plies of previous membranes used)  
One ply of Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.  
Or  
One ply of Pika Ply Supreme FR (TG), heat welded.
- Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.
- Maximum Design Pressure:** -45.0 psf (See General Limitation #9)



**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Steel  
**System Type A(2):** One or more layers of insulation adhered with approved adhesive or asphalt

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Insulation Layer</u>              | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--------------------------------------|---|--|
| <b>ACFoam II</b><br>Maximum 1" thick | N/A                                       | N/A  |
| <b>DensDeck</b><br>Maximum 1" thick  | N/A                                       | N/A  |

**Note: Insulation shall be adhered with Olybond Adhesive Fastener applied at 1 gal/sq. and walked in. 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)  
 One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Ply Sheet:** One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Membrane:** (Optional, Required if less than two plies of previous membranes used)  
 One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.  
 Or  
 One ply of Pika Ply Supreme FR (TG), heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

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



**Deck Type 2I:** Steel, Insulated  
**Deck Description:** Min. 22 ga. steel  
**System Type B(1):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ACFoam II</b><br>Minimum 1.5" thick                                       | 1, 4 or 11                                       | 1:4 ft <sup>2</sup>                               |
| <b>ISORoc</b><br>Minimum 1.5" thick  | 1, 4, 11 or 17                                   | 1:2.67 ft <sup>2</sup>                            |
| <b>Multi-Max</b><br>Minimum 1.5" thick                                       | 1, 4, 5, 11, 15 or 17                            | 1:2.9 ft <sup>2</sup>                             |
| <b>ENRGY 2 Plus</b><br>Minimum 1.5" thick                                    | 1, 4, 5, 11, 15 or 17                            | 1:4 ft <sup>2</sup>                               |
| <b>ENRGY-2</b><br>Minimum 1.4" thick   | 1, 4, 11 or 17                                   | 1:3 ft <sup>2</sup>                               |
| <b>Fiberglas</b><br>Minimum 1 <sup>5</sup> / <sub>16</sub> " thick           | 1, 4, 5, 8, 11, 15 or 17                         | 1:2.67 ft <sup>2</sup>                            |
| <b>ConPerl, GAFTEMP Permalite, FescoBoard, Perlite</b><br>Minimum 3/4" thick | 1, 4, 11 or 17                                   | 1:2 ft <sup>2</sup>                               |

**Note:** Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastener details).

| <b><u>Top Insulation Layer (Optional)</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>BP High Strength, GAFTEMP High Density, High Density Wood Fiberboard, Sturdi-Top, Fiber Base HD1, HD6, Structodeck, Esgard, Wood Fiberboard, GAFTEMP Fiberboard, Huebert Fiberboard</b><br>Minimum 1/2" thick | N/A  | N/A   |
| <b>ConPerl, GAFTEMP Permalite, FescoBoard, Perlite, Paroc Cap Board</b><br>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>. 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) One ply of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply or an approved ASTM D 4601 base sheet adhered with approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.; or, one ply of Performance Ply, Multi-Ply Glass, or Multi-Ply Glass CL adhered with BUR Plus 505 or HK Tar Plus at a rate of 20-40 lbs./sq.; or, one ply of Performance Ply, Multi-Ply Glass, Multi-Ply Glass CL, adhered with Multi-Ply Adhesive at a rate of 2.5 to 3 gal./sq.

**Ply Sheet:** Two or more plies of Premium Ply, HK Glass Ply, BUR Plus Polyester Ply, Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, or an approved ASTM D 2178 ply sheet, in any combination, adhered to any of the base sheets noted above with approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.; or, two or more plies of Pika Ply SS-2, Multi-Ply Glass, Multi-Ply Glass CL, HK Tarred Felt or HK Tarred Glass, in any combination, adhered to Performance Ply, Multi-Ply Glass, or Multi-Ply Glass CL base sheets with BUR Plus 505 or HK Tar Plus at a rate of 20-40 lbs./sq.; or, two or more plies of Pika Ply SS-2, Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, in any combination, adhered to Pika Ply SS-2, Multi-Ply Glass, Multi-Ply Glass CL, Multi-Ply Glass CL/W, Performance Ply or Weather Ply base sheets with Multi-Ply Adhesive at a rate of 2.5 to 3 gal./sq.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

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



**Deck Type 2I:** Steel, Insulated

**Deck Description:** Min. 22 ga. steel deck welded 6 inches o.c. to structural steel supports spaced at a maximum 5-ft o.c.

**System Type B(2):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u>    | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---------------------------------|---|--|
| ACFoam II<br>Minimum 1.5" thick | 11  | 1:1.33 ft <sup>2</sup>                     |

**Note:** Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastener details).

| <u>Top Insulation Layer (Optional)</u>           | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| High Density Wood Fiberboard<br>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 ft<sup>2</sup>. 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) One ply of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply or an approved ASTM D 4601 base sheet adhered with approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.; or, one ply of Performance Ply, Multi-Ply Glass, or Multi-Ply Glass CL adhered with BUR Plus 505 or HK Tar Plus at a rate of 20-40 lbs./sq.; or, one ply of Performance Ply, Multi-Ply Glass, Multi-Ply Glass CL, adhered with Multi-Ply Adhesive at a rate of 2.5 to 3 gal./sq.

**Ply Sheet:** Two or more plies of Premium Ply, HK Glass Ply, BUR Plus Polyester Ply, Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, or an approved ASTM D 2178 ply sheet, in any combination, adhered to any of the base sheets noted above with approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.; or, two or more plies of Pika Ply SS-2, Multi-Ply Glass, Multi-Ply Glass CL, HK Tarred Felt or HK Tarred Glass, in any combination, adhered to Performance Ply, Multi-Ply Glass, or Multi-Ply Glass CL base sheets with BUR Plus 505 or HK Tar Plus at a rate of 20-40 lbs./sq.; or, two or more plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, in any combination, adhered to Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply base sheets with Multi-Ply Adhesive at a rate of 2.5 to 3 gal./sq.



**Surfacing:**

Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes.

Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications

Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design**

**Pressure:**

-75 psf; (See General Limitation #7.)



- Deck Type 2I:** Steel, Insulated
- Deck Description:** 18-22 ga. Steel
- System Type B(3):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt or adhesive.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u>               | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| AC Foam II, H-Shield<br>Minimum 1.5" thick | 11  | 1:2 ft <sup>2</sup>                        |
| AC Foam II, H-Shield<br>Minimum 2.0" thick | 11  | 1:4 ft <sup>2</sup>                        |

**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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements set forth in applicable Building Code. (See Roofing Application Standard RAS 117 for fastening details).

| <u>Top Insulation Layer</u>                           | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---|---|--|
| (Optional) AC Foam II, H-Shield<br>Minimum 1.5" thick | N/A                                       | N/A  |
| DensDeck Prime<br>Minimum 0.25" thick                 | N/A                                       | N/A  |

**Note:** Top layer of insulation shall be adhered with OlyBond 500 Adhesive Fastener in 0.75-1" wide beads spaced 12" o.c. and walked in or in approved hot asphalt applied within the EVT range and at a rate of 25 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** One layer of Multi Ply Glass, Multi Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, Arrowbase or Modified Arrowbase, adhered in Hickman Base Sheet Adhesive at a rate of 1.5 gal/sq.

**Ply Sheet:** One to three plies of Multi Ply Glass, Multi Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, Arrowbase or Modified Arrowbase, adhered in Multi-Ply Adhesive at a rate of 2.5-3 gal/sq. or Pika Ply Adhesive at a rate of 1.5 gal/sq.



**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR, Pika Ply Supreme FR (HR), Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350S, Pika Ply MS-3G, Pika Ply 250 GR, Pika Ply MS-4, Performance Ply MS FR, Premium Cap Sheet or Performance Ply SS, adhered in Multi-Ply Adhesive at a rate of 2.5-3 gal/sq. or Pika Ply Adhesive at a rate of 1.5 gal/sq.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -45.0 psf (See General Limitation #9)



**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Steel

**System Type B(4):** Base layer of insulation mechanically fastened, top layer adhered with approved asphalt or adhesive.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

**Base Insulation Layer**

|   | <b><u>Insulation Fasteners</u></b><br><b><u>(Table 3)</u></b> | <b><u>Fastener</u></b><br><b><u>Density/ft<sup>2</sup></u></b> |
|---|---|--|
| AC Foam II, Hy-Therm AP, Hy-Therm(a) AP<br>Minimum 1.5" thick | 11, 17  | 1:2 ft <sup>2</sup>  |
| AC Foam II, Hy-Therm AP, Hy-Therm(a) AP<br>Minimum 2.0" thick | 11, 17  | 1:4 ft <sup>2</sup>  |

**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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements set forth in applicable Building Code. (See Roofing Application Standard RAS 117 for fastening details).

**Top Insulation Layer**

|   | <b><u>Insulation Fasteners</u></b><br><b><u>(Table 3)</u></b> | <b><u>Fastener</u></b><br><b><u>Density/ft<sup>2</sup></u></b> |
|---|---|--|
| ConPerl, GAFTEMP Permalite, Permalite Roof Insulation, Fesco Board<br>Minimum 0.75" thick | N/A   | N/A  |

**Note:** Top layer of insulation shall be adhered with OlyBond 500 Adhesive Fastener in 0.75-1" wide beads spaced 12" o.c. and walked in or in approved hot asphalt applied within the EVT range and at a rate of 25 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** (Optional)  
One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.



**Ply Sheet:** (Optional, required if no base sheet used)  
One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.  
Or  
One ply of Pika Ply Supreme FR (TG), heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -45.0 psf (See General Limitation #9)



**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Steel

**System Type B(5):** Base layer of insulation mechanically fastened, top layer adhered with approved asphalt or adhesive.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>   | <b><u>Insulation Fasteners</u></b><br><b><u>(Table 3)</u></b> | <b><u>Fastener</u></b><br><b><u>Density/ft<sup>2</sup></u></b> |
|---|---|--|
| <b>ENRGY3</b><br>Minimum 1.5" thick   | 11, 17  | 1:2 ft <sup>2</sup>  |
| <b>Hy-Therm AP, Hy-Therm(a) AP (not allowed with wood fiber coverboards on steel)</b><br>Minimum 1.5" thick | 11, 17  | 1:2 ft <sup>2</sup>  |
| <b>ENRGY3</b><br>Minimum 2" thick   | 11, 17  | 1:4 ft <sup>2</sup>  |
| <b>Hy-Therm AP, Hy-Therm(a) AP (not allowed with wood fiber coverboards on steel)</b><br>Minimum 2" thick   | 11, 17  | 1:4 ft <sup>2</sup>  |

**Note:** Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastener details).

| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners</u></b><br><b><u>(Table 3)</u></b> | <b><u>Fastener</u></b><br><b><u>Density/ft<sup>2</sup></u></b> |
|---|---|--|
| <b>ConPerl, GAFTEMP Permalite, Permalite, Fesco Board</b><br>Minimum 0.75" thick  | N/A   | N/A  |
| <b>Structodek, Strucktodeck High Density Fiberboard, GAFTEMP High Density Fiberboard, Roof Insulating Board, Fiberbase HD1, HD6</b><br>Minimum 0.5" thick | N/A   | N/A  |

**Note:** Top layer of insulation shall be adhered with approved asphalt or with BUR Plus 101, 102, 202, 202A, 303 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. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** (Optional)  
One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.



**Ply Sheet:** (Optional, required if no base sheet used)  
One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.  
Or  
One ply of Pika Ply Supreme FR (TG), heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -45.0 psf (See General Limitation #9)



**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Steel

**System Type B(6):** Base layer of insulation mechanically fastened, top layer adhered with approved asphalt or adhesive.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u>  | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|-------------------------------|---|--|
| ACFoam II<br>Minimum 2" thick | 17  | 1:1.6 ft <sup>2</sup>                      |

**Note:** Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastener details).

| <u>Top Insulation Layer</u>                               | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---|---|--|
| Structodeck High Density Fiberboard<br>Minimum 0.5" thick | N/A                                       | N/A  |

**Note:** 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>. 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)  
One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Ply Sheet:** (Optional, required if no base sheet used)  
One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.



**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
One ply of Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.  
Or  
One ply of Pika Ply Supreme FR (TG), heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -75.0 psf (See General Limitation #7)



**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Steel

**System Type B(7):** Base layer of insulation mechanically fastened, top layer adhered with approved asphalt or adhesive.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u>  | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|-------------------------------|---|--|
| ACFoam II<br>Minimum 2" thick | 11  | 1:1.6 ft <sup>2</sup>                      |

**Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastener details).**

| <u>Top Insulation Layer</u>     | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---------------------------------|---|--|
| ACFoam II<br>Minimum 2" thick   | N/A                                       | N/A  |
| DensDeck<br>Minimum 0.25" thick | N/A                                       | N/A  |

**Note: 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> or in a full coating of OlyBond Adhesive Fastener at a rate of 1 gal/sq. 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)  
One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Ply Sheet:** (Optional, required if no base sheet used)  
One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.



**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
One ply of Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.  
Or  
One ply of Pika Ply Supreme FR (TG), heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -75.0 psf (See General Limitation #7)



**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Steel  
**System Type C(1):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u>   | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>ACFoam II, H-Shield</b><br>Minimum 1.0" thick (Maximum 1.0" thick for Steel Deck) | N/A                                       | N/A  |
| <u>Top Insulation Layer</u>  | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
| <b>DensDeck</b><br>Minimum 0.5" thick  | 11, 17                                    | 1:1.6 ft <sup>2</sup>                      |

**Note: Top layer of insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastener details). Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.**

**Base Sheet:** One layer of Multi Ply Glass, Multi Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, Arrowbase or Modified Arrowbase, adhered in Hickman Base Sheet Adhesive at a rate of 1.5 gal/sq.

**Ply Sheet:** One to three plies of Multi Ply Glass, Multi Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, Arrowbase or Modified Arrowbase, adhered in Multi-Ply Adhesive at a rate of 2.5-3 gal/sq. or Pika Ply Adhesive at a rate of 1.5 gal/sq.

**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
 One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR, Pika Ply Supreme FR (HR), Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350S, Pika Ply MS-3G, Pika Ply 250 GR, Pika Ply MS-4, Performance Ply MS FR, Premium Cap Sheet or Performance Ply SS, adhered in Multi-Ply Adhesive at a rate of 2.5-3 gal/sq. or Pika Ply Adhesive at a rate of 1.5 gal/sq.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -45 psf (See General Limitation #7.)



**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Steel  
**System Type C(2):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

**Thermal Barrier:** Min. 0.5" thick DensDeck, loose laid.

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u>  | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---|---|--|
| <b>Expanded or Extruded EPS (min. 1.0 pcf density)</b><br>Minimum 1.0" thick – Maximum 4.0" thick | N/A                                       | N/A  |
| <u>Top Insulation Layer</u>   | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
| <b>DensDeck</b><br>Minimum 0.5" thick   | 11, 17                                    | 1:1.6 ft <sup>2</sup>                      |

**Note: Top layer of insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastener details). Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.**

**Base Sheet:** One layer of Multi Ply Glass, Multi Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, Arrowbase or Modified Arrowbase, adhered in Hickman Base Sheet Adhesive at a rate of 1.5 gal/sq.

**Ply Sheet:** One to three plies of Multi Ply Glass, Multi Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, Arrowbase or Modified Arrowbase, adhered in Multi-Ply Adhesive at a rate of 2.5-3 gal/sq. or Pika Ply Adhesive at a rate of 1.5 gal/sq.

**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
 One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR, Pika Ply Supreme FR (HR), Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350S, Pika Ply MS-3G, Pika Ply 250 GR, Pika Ply MS-4, Performance Ply MS FR, Premium Cap Sheet or Performance Ply SS, adhered in Multi-Ply Adhesive at a rate of 2.5-3 gal/sq. or Pika Ply Adhesive at a rate of 1.5 gal/sq.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -45 psf (See General Limitation #7.)



**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Steel  
**System Type C(3):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u>   | <u>Insulation Fasteners</u><br><u>(Table 3)</u> | <u>Fastener</u><br><u>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>ConPerl, GAFTEMP Permalite, Fescoboard</b><br>Minimum 0.75" thick | N/A   | N/A  |
| <b>DensDeck</b><br>Minimum 0.625" thick                              | N/A   | N/A  |
| <u>Top Insulation Layer</u>  | <u>Insulation Fasteners</u><br><u>(Table 3)</u> | <u>Fastener</u><br><u>Density/ft<sup>2</sup></u> |
| <b>ACFoam II, H-Shield</b><br>Minimum 1.5" thick                     | 1, 11, 17                                       | 1:2.6 ft <sup>2</sup>                            |
| <b>ACFoam II, H-Shield</b><br>Minimum 2" thick                       | 1, 11, 17                                       | 1:4 ft <sup>2</sup>                              |

**Note: Top layer of insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastener details). Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.**

**Base Sheet:** One layer of Multi Ply Glass, Multi Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, Arrowbase or Modified Arrowbase, adhered in Hickman Base Sheet Adhesive at a rate of 1.5 gal/sq.

**Ply Sheet:** One to three plies of Multi Ply Glass, Multi Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, Arrowbase or Modified Arrowbase, adhered in Multi-Ply Adhesive at a rate of 2.5-3 gal/sq. or Pika Ply Adhesive at a rate of 1.5 gal/sq.

**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
 One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR, Pika Ply Supreme FR (HR), Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350S, Pika Ply MS-3G, Pika Ply 250 GR, Pika Ply MS-4, Performance Ply MS FR, Premium Cap Sheet or Performance Ply SS, adhered in Multi-Ply Adhesive at a rate of 2.5-3 gal/sq. or Pika Ply Adhesive at a rate of 1.5 gal/sq.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

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



**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Steel

**System Type C(4):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>   | <b><u>Insulation Fasteners</u></b><br><b><u>(Table 3)</u></b> | <b><u>Fastener</u></b><br><b><u>Density/ft<sup>2</sup></u></b> |
|---|---|--|
| <b>ACFoam II</b><br>Max 1.0" thick  | N/A   | N/A  |
| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners</u></b><br><b><u>(Table 3)</u></b> | <b><u>Fastener</u></b><br><b><u>Density/ft<sup>2</sup></u></b> |
| <b>ConPerl, GAFTEMP Permalite, Permalite Roof Insulation, Fesco Board</b><br>Minimum 1.0" thick   | 1, 11, 17   | 1:2 ft <sup>2</sup>  |
| <b>Structodek High Density Wood Fiberboard, GAFTEMP High Density Wood Fiberboard</b><br>Minimum 0.5" thick  | 11  | 1:3 ft <sup>2</sup>  |
| <b>Roof Insulating Board, Structodek, Fiber Base HD1, HD6</b><br>Minimum 0.5" thick   | 1, 11, 17   | 1:2 ft <sup>2</sup>  |
| <b>Standard Fiberglas Roof Insulation, Fiber Glass Roof Insulation, Wide Flute Fiberglas Roof Insulation, Fiber Glass Roof Insulation (Wide Flute)</b><br>Minimum 0.9375" thick |   | 1:3 ft <sup>2</sup>  |

**Note:** Top layer of insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastener details). Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** (Optional)  
One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.



**Ply Sheet:** (Optional, required if no base sheet used)  
One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
One ply of Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.  
Or  
One ply of Pika Ply Supreme FR (TG), heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -45.0 psf (See General Limitation #9)



**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Steel

**System Type C(5):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>   | <b><u>Insulation Fasteners</u><br/><b>(Table 3)</b></b> | <b><u>Fastener</u><br/><b>Density/ft<sup>2</sup></b></b> |
|---------------------------------------|---|--|
| <b>AC Foam II</b><br>Minimum 2" thick | 11, 17  | 1:4 ft <sup>2</sup>                                      |

**Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.**

| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners</u><br/><b>(Table 3)</b></b> | <b><u>Fastener</u><br/><b>Density/ft<sup>2</sup></b></b> |
|---|---|--|
| <b>Structodeck High Density Fiberboard, GAFTEMP High Density Fiberboard</b><br>Minimum 0.5" thick | 11  | 1:3 ft <sup>2</sup>                                      |
| <b>Structodeck, Roof Insulating Board, Fber Base HD1, HD6</b><br>Minimum 0.5" thick               | N/A   | N/A  |

**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.**

**Top layer of insulation may be adhered with 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. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.**

**Base Sheet:** (Optional)  
One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.



- Ply Sheet:** (Optional, required if no base sheet used)  
One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.
- Membrane:** (Optional, Required if less than three plies of previous membranes used)  
One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.  
Or  
One ply of Pika Ply Supreme FR (TG), heat welded.
- Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.
- Maximum Design Pressure:** -45.0 psf (See General Limitation #9)



**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Steel  
**System Type C(6):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Top Insulation Layer</u>   | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---|---|--|
| ConPearl, GAFTEMP Permalite, Permalite, Fesco Board<br>Minimum 1" thick | 1, 11, 17                                 | 1:2 ft <sup>2</sup>                        |

**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)  
 One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Ply Sheet:** (Optional, required if no base sheet used)  
 One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
 One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.  
 Or  
 One ply of Pika Ply Supreme FR (TG), heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -45.0 psf (See General Limitation #9)



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**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Steel  
**System Type C(7):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Top Insulation Layer</u>  | <u>Insulation Fasteners</u><br><u>(Table 3)</u> | <u>Fastener</u><br><u>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>Standard or Standard Fiberglas Roof Insulation, Wide Flute Fiberglas Roof Insulation, Fiber Glass Roof Insulation (Wide Flute), Fiber Glass Roof Insulation</b><br>Minimum 15/16" thick | 1, 11, 17                                       | 1:3 ft <sup>2</sup>                              |

**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)  
 One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Ply Sheet:** (Optional, required if no base sheet used)  
 One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
 One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.  
 Or  
 One ply of Pika Ply Supreme FR (TG), heat welded.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -45.0 psf (See General Limitation #9)



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**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Steel

**System Type C(8):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

**Base Insulation Layer**

**ACFoam II, Hy-Therm AP, Hy-Therm(a) AP**  
Minimum 1.5" thick

**Insulation Fasteners**  
**(Table 3)**

**Fastener**  
**Density/ft<sup>2</sup>**

N/A

N/A

**Top Insulation Layer**

**DensDeck Prime**  
Minimum 0.5" thick

**Insulation Fasteners**  
**(Table 3)**

**Fastener**  
**Density/ft<sup>2</sup>**

11

1:1.6 ft<sup>2</sup>

**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)

One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Ply Sheet:** (Optional, required if no base sheet used)

One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.



**Membrane:**

(Optional, Required if less than three plies of previous membranes used)  
One ply of Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

Or

One ply of Pika Ply Supreme FR (TG), heat welded.

**Surfacing:**

Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes.

Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications

Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design**

**Pressure:**

-67.5 psf (See General Limitation #7)



**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. Steel

**System Type C(9):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

**Base Insulation Layer**

**ACFoam II, Hy-Therm AP, Hy-Therm(a) AP**  
Minimum 1.5" thick

**Insulation Fasteners**  
**(Table 3)**

**Fastener**  
**Density/ft<sup>2</sup>**

N/A

N/A

**Top Insulation Layer**

**DensDeck, DensDeck Prime**  
Minimum 0.25" thick

**Insulation Fasteners**  
**(Table 3)**

**Fastener**  
**Density/ft<sup>2</sup>**

11

1:4 ft<sup>2</sup>

**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)  
One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Ply Sheet:** (Optional, required if no base sheet used)  
One or more plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.



- Membrane:** (Optional, Required if less than three plies of previous membranes used)  
One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR or Pika Ply Supreme FR (HR), adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, BUR Plus 202A or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.  
Or  
One ply of Pika Ply Supreme FR (TG), heat welded.
- Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.
- Maximum Design Pressure:** -45 psf (See General Limitation #7)



- Deck Type 2I:** Steel, Insulated
- Deck Description:** 18-22 ga. Steel deck, 1.5" deep wide rib, secured to supports spaced maximum 72" o.c. with 2 Traxx 5 fasteners and 0.75" washers spaced 6" o.c.
- System Type C(10):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u>                     | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>ACFoam II, H-Shield</b><br>Minimum 2.0" thick | N/A                                       | N/A  |

**Note:** Top layer of insulation is adhered to loose laid base layer with Hickman Adhesive SF applied in 0.75"-1" wide beads spaced maximum 12" o.c.

| <u>Top Insulation Layer</u>            | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>SECUROCK</b><br>Minimum 0.25" thick | 11, 17                                    | 1:1.33 ft <sup>2</sup>                     |

**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) One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.
- Ply Sheet:** (Optional, required if no base sheet used)  
One to three plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.
- Membrane:** (Optional, Required if less than three plies of previous membranes used)  
One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.
- Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -97.5 psf (See General Limitation #7)



**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Steel with supports spaced maximum 6' o.c.  
**System Type C(11):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

**Base Insulation Layer**

**ACFoam II, ENRGY 3, Hy-Therm AP**  
 Minimum 1.5" thick

**Insulation Fasteners**  
**(Table 3)**

**Fastener**  
**Density/ft<sup>2</sup>**

N/A

N/A

**Top Insulation Layer**

**DensDeck Prime**  
 Minimum 0.5" thick  
 Minimum 0.5" thick

**Insulation Fasteners**  
**(Table 3)**

**Fastener**  
**Density/ft<sup>2</sup>**

17

1:1.33

17

1:1

**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) One ply of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, GAFGLASS #75, adhered in a full mopping of approved asphalt within the EVT range and at a rate of 25 lbs./sq.

**Ply Sheet:** One to four plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply Arrowglass VI, Performance Ply, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt within the EVT range and at a rate of 25 lbs./sq.

**Membrane:** (Optional, Required if less than two plies of previous membranes used)  
 Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply HI-TEC 80 Plus, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR, Pika Ply Supreme FR (HR), Performance Ply MS FR, Pika Ply MS-4, adhered in a full mopping of approved asphalt within the EVT range and at a rate of 25 lbs./sq.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -112.5 psf (DensDeck Prime attached at 1:1.33 ft<sup>2</sup>)  
 -157.5 psf (DensDeck Prime attached at 1:1 ft<sup>2</sup>)  
 (See General Limitation #7)



**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Steel with supports spaced maximum 6' o.c.  
**System Type C(12):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

**Base Insulation Layer**

**ACFoam II, ENRGY 3, Hy-Therm AP**  
 Minimum 1.5" thick

**Insulation Fasteners**  
**(Table 3)**

**Fastener**  
**Density/ft<sup>2</sup>**

N/A

N/A

**Top Insulation Layer**

**SECUROCK**  
 Minimum 0.5" thick  
 Minimum 0.5" thick

**Insulation Fasteners**  
**(Table 3)**

**Fastener**  
**Density/ft<sup>2</sup>**

17

1:1.33

17

1:1

**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) One ply of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, GAFGLASS #75, adhered in a full mopping of approved asphalt within the EVT range and at a rate of 25 lbs./sq.

**Ply Sheet:** One to four plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply Arrowglass VI, Performance Ply, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt within the EVT range and at a rate of 25 lbs./sq.

**Membrane:** (Optional, Required if less than two plies of previous membranes used)  
 Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply HI-TEC 80 Plus, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR, Pika Ply Supreme FR (HR), Performance Ply MS FR, Pika Ply MS-4, adhered in a full mopping of approved asphalt within the EVT range and at a rate of 25 lbs./sq.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -157.5 psf (SECUROCK attached at 1:1.33 ft<sup>2</sup>)  
 -172.5 psf (SECUROCK attached at 1:1 ft<sup>2</sup>)  
 (See General Limitation #7)



**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Steel  
**System Type C(13):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u>  | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---|---|--|
| <b>ACFoam II, H-Shield</b><br>Minimum 1.5" thick  | N/A                                       | N/A  |
| <b>Any approved EPS (min 1 pcf) over a loose laid .5" thick Dens Deck Thermal Barrier</b><br>Minimum 1.0" thick | N/A                                       | N/A  |
| <u>Top Insulation Layer</u>   | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
| <b>DensDeck Prime</b><br>Minimum 0.5" thick   | 11, 17 (min #14)                          | 1:1.6                                      |

**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:** One ply of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, Arrowbase or Modified Arrowbase, adhered in Hickman Base Sheet Adhesive applied at 1.5 gal/sq.

**Ply Sheet:** One ply of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, Arrowbase or Modified Arrowbase, adhered in Multi-Ply Adhesive at 2.5-3 gal/sq or Pika Ply Adhesive at 1.5 gal/sq.

**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, Pika Ply Supreme FR Smooth, Pika Ply Supreme FR, Pika Ply Supreme FR (HR), Pika Ply SS-3P, Pika Ply SS-4, Pika Ply 350S, Pika Ply MS-3G, Pika Ply 250 GR, Pika Ply MS-4, Performance Ply MS FR, Premium Cap Sheet or Performance Ply SS, adhered in Multi-Ply Adhesive at 2.5-3 gal/sq or Pika Ply Adhesive at 1.5 gal/sq.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
Surfacing is Required for smooth or sanded surfaced field cap membranes.  
Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -45.0 psf (See General Limitation #7)



**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. (ASTM 1008 SS Grade 80 or ASTM A653 Grade 80) Steel, secured to supports spaced maximum 72" o.c. with 2 Traxx 5 fasteners and 0.75" washers spaced 6" o.c.

**System Type C(14):** All layers of insulation simultaneously attached.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

**Base Insulation Layer**

**ACFoam II, H-Shield**  
Minimum 1.5" thick

**Insulation Fasteners**  
**(Table 3)**

**Fastener**  
**Density/ft<sup>2</sup>**

N/A

N/A

**Top Insulation Layer**

**SECUROCK**  
Minimum 0.5" thick

**Insulation Fasteners**  
**(Table 3)**

**Fastener**  
**Density/ft<sup>2</sup>**

17

1:1 ft<sup>2</sup>

**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)

One layer of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a Multi-Ply Adhesive S.F. at a rate of 1.5-2 gal/sq.

**Ply Sheet:** (Optional, required if no base sheet used)

One to three plies of Multi-Ply Glass, Multi-Ply Glass CL, Performance Ply, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, adhered in a Multi-Ply Adhesive S.F. at a rate of 1.5-2 gal/sq.

**Membrane:** (Optional, Required if less than three plies of previous membranes used)

One ply or Pika Ply SS-3P, Pika Ply HI-TEC 80, Pika Ply MS-3G, Premium Cap Sheet, Pika Ply MS-4, Pika Ply HI-TEC Granule, Performance Ply MS FR or Pika Ply SS-4, adhered in a Multi-Ply Adhesive S.F. at a rate of 1.5-2 gal/sq.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.

Surfacing is Required for smooth or sanded surfaced field cap membranes.

Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications

Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -150 psf (See General Limitation #7)



**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. Steel, secured to supports spaced maximum 72" o.c. with 2 Traxx 5 fasteners and 0.75" washers spaced 6" o.c.  
**System Type D:** All layers of insulation and base sheet simultaneously attached

**All General and System Limitations apply.**

**Thermal Barrier:** One or more layers of minimum 0.75" thick ConPerl, GAFTEMP Permalite or Fesco Board, loose laid  
 Or  
 One or more layers of minimum 5/8" thick DensDeck, loose laid

| <u>Insulation Layer</u>                   | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---|---|--|
| ACFoam II, H-Shield<br>Minimum 2.0" thick | N/A                                       | N/A  |

**Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. 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.**

**Base Sheet:** Performance Ply, mechanically attached with Tru-Fast BB-18 Batten Bars and Tru-Fast EHD fasteners spaced maximum 12" o.c. in the minimum 3.5" wide lap, and center of the membrane. The batten bar ends are lapped minimum 6".

**Ply Sheet:** One to three plies of Pika Ply HI-TEC 80, Pika Ply HI-TEC 60, Pika Ply HI-TEC 60 Type II, HK Glass Ply IV, Arrowglas IV, Premium Ply, Arrowglas VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Multi-Ply Glass or Multi-Ply Glass CL, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Membrane:** (Optional, Required if less than three plies of previous membranes used)  
 One ply or Pika Ply HI-TEC Granule, Pika Ply HI-TEC 80, adhered in a full mopping of approved asphalt, BUR Plus 101, BUR Plus 102, BUR Plus 202, or BUR Plus 303 applied within the EVT range and at a rate of 25 lbs./sq.

**Surfacing:** Surfacing is Optional on granular surfaced field cap membranes.  
 Surfacing is Required for smooth or sanded surfaced field cap membranes.  
 Refer to Underwriters Laboratories or Intertek Testing Services listings for applicable fire classifications  
 Apply any coating system listed in Table 4 above, or any Miami-Dade approved coating system.

**Maximum Design Pressure:** -120.0 psf (See General Limitation #7)



## STEEL 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 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.

## 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.: 08-0714.04  
Expiration Date: 08/01/13  
Approval Date: 09/18/08  
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