



**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)

**Viridian Systems
300 Solon Industrial Parkway
Tallmadge, OH 44278**

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: Viridian Systems Conventional Built-Up-Roof Systems Over Concrete Decks

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

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

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

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

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

This revises NOA No. 08-0714.03 and consists of pages 1 through 57.
The submitted documentation was reviewed by Alex Tigera.



**NOA No.: 09-0722.05
Expiration Date: 08/01/13
Approval Date: 09/09/09
Page 1 of 57**

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Built-Up Roofing
Material: Fiberglass
Deck Type: Concrete
Maximum Design Pressure -237 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> |
|-----------------------------|-------------------|---------------------------|---|
| ElastoShield | 5, 55 gallons | ASTM D 1227 Type III | A polymer modified, asbestos free asphalt roofing emulsion. |
| HK Aluminum Shield | 5, 55 gallons | ASTM D 1227 Type I | Asphalt based, asbestos free non-fibered aluminum coating. |
| HK Aluminum Shield Fibrated | 5, 55 gallons | ASTM D 2824 Type III | Asphalt based, asbestos free aluminized coating. |
| HK ReCoat | 5, 55 gallons | ASTM D 1227 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™ 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. |
| Pika Ply Adhesive | 5, 55 gallon | Proprietary | Asphalt based, asbestos free SBS adhesive. |



| | | | |
|-----------------------------|--------------|------------------------|--|
| 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 ² uncoated polyester ply sheet. |
| BUR Plus™ Polyester Ply 200 | 39.5" x 333' | Proprietary | A 200 gram/m ² uncoated polyester ply sheet. |
| BUR Plus™ Polyester Ply 250 | 39.5" x 333' | Proprietary | A 250 gram/m ² 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 | 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 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 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

| Product Name | Product Description | Manufacturer (With Current NOA) |
|--|--|--|
| Whiteline | Polyisocyanurate foam insulation | Apache Products Co. |
| 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. |
| ISO 95+, GL | Polyisocyanurate foam insulation | Firestone Building Products, Inc. |
| 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 |
| Dens Deck | Silicon treated gypsum | G-P Products |
| Sturdi-Top | Wood fiber insulation board. | G-P Products |
| Hubert Fiberboard | Wood fiber board | Huebert Fiberboard, Inc. |
| H-Shield | Polyisocyanurate foam insulation | Hunter Panels |
| H-Shield WF | Polyisocyanurate/wood fiber composite insulation board | Hunter Panels |
| ENRGY-2, ENRGY-2, Plus, 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 |
| Retro-Fit Board | A high-density perlite roof insulation. | Johns Manville |
| ISORoc | Polyisocyanurate foam / rockwool composite insulation | Johns Manville |
| Structodek, Structodek FS | High Density Wood Fiber insulation board. | Masonite |
| Paroc Cap Board | Rockwool insulation | Partek, Inc. |



APPROVED INSULATIONS:

TABLE 2

| Product Name | Product Description | Manufacturer (With Current NOA) |
|---------------------|--------------------------------------|--|
| Multi-Max, FA | Polyisocyanurate foam insulation | Rmax, Inc. |
| Fiber Base | Asphalt coated wood fiber insulation | Temple Inland Forest Products Corp. |

APPROVED FASTENERS:

TABLE 3

| Fastener Number | Product Name | Product Description | Dimensions | Manufacturer (With Current NOA) |
|------------------------|---------------------------|---|-------------------------|--|
| 1. | #14 Dekfast Fastener | Insulation fastener | | SFS Intec, Inc. |
| 2. | Dekfast Hex Plate | Galvalume AZ50 steel plate | 2 7/8" x 3 1/4" | SFS Intec, Inc. |
| 3. | Dekfast Lock Plate | Polypropylenel plate | 3" x 3 1/4" | SFS Intec, Inc. |
| 4. | #14 Roofgrip Fasteners | Insulation fastener for wood and steel. | | OMG, Inc. |
| 5. | AccuTrac Hextra Fasteners | Insulation fastener for wood, steel and concrete. | | OMG, Inc. |
| 6. | Metal Plate | Galvalume stress plate. | 3" round 3" square | OMG, Inc. |
| 7. | Gearlok Plastic Plate | Polypropylene round plate | 3.2" | OMG, Inc. |
| 8. | UltraFast | Insulation fastener for wood, steel and concrete. | | Johns Manville |
| 9. | UltraFast Metal Plate | Galvalume AZ55 steel plate | 3" square & 3" round | Johns Manville |
| 10. | UltraFast Plastic Plate | High Density Polyolefin round plate | 3" round | Johns Manville |
| 11. | Olympic Fastener #14 | Insulation fastener | | OMG, Inc. |
| 12. | Fluted Nail (Con-Tite) | Insulation fastener | | OMG, Inc. |
| 13. | Olympic Standard | Galvalume AZ50 steel plate | 3" round | OMG, Inc. |
| 14. | Olympic | Polypropylene round plate | 3" round | OMG, Inc. |
| 15. | Olympic G-2 | Galvalume AZ55steel plate | 3.5" round | OMG, Inc. |
| 16. | Rawl Drive/Spike | Insulation fastener for concrete decks | | Powers Fasteners, Inc. |



APPROVED FASTENERS:

TABLE 3

| Fastener Number | Product Name | Product Description | Dimensions | Manufacturer (With Current NOA) |
|------------------------|---------------------|---|-------------------|--|
| 17. | Rawl Plate | Galvalume AZ55 steel plate | 3" round | Powers Fasteners, Inc. |
| 18. | Insul-Fixx Fastener | Insulation fastener for wood, steel and concrete. | | SFS Intec, Inc. |
| 19. | Insul-Fixx S Plate | Galvalume AZ50 steel plate | 3" round | SFS Intec, Inc. |
| 20. | Insul-Fixx P Plate | Polyethylene plastic plate | 3" round | SFS Intec, Inc. |
| 21. | Tru-Fast Fasteners | Insulation fastener for wood, steel and concrete. | | The Tru-Fast Corp. |
| 22. | Tru-Fast MP-3 | Galvalume AZ50 steel plate | 3" round | The Tru-Fast Corp. |
| 23. | Tru-Fast Plates | Galvalume AZ55 steel plate | 3" round | The Tru-Fast Corp. |
| 24. | 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 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 Weatherizer KV at an application rate of 3 gal/sq, followed by one coat of White Roof Coating Base Coat at an application rate of 1 gal/sq. and one coat of White Roof Coating at an application rate of 1 gal/sq. |
| 11. | One coat of White Roof Coating Base Coat at an application rate of 1.5 gal/sq. and one coat of White Roof Coating at an application rate of 1.5 gal/sq. |
| 12. | One coat of 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 | 3031094 | 03/26/08 |
| | FM 4470 | 3031669 | 12/31/07 |
| | Warnock Hersey | ASTM E 108 | 495-R-0344 |
| 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 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(1): One or more layers of insulation 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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|--|---|--|
| ACFoam II, ENRGY-2, ENRGY-2 Plus, ISOroc, Multi-Max Minimum 1" thick | N/A | N/A |
| <u>Base or Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| BP High Strength, GAFTEMP High Density, High Density Wood Fiberboard, Sturdi-Top, Fiber Base HD1, HD6, Structodeck, Esgard, Fiberboard, GAFTEMP Fiberboard, Huebert Fiberboard Minimum 1/2" thick | N/A | N/A |
| ConPerl, GAFTEMP Permalite, FescoBoard, Perlite Minimum 3/4" thick | N/A | N/A |

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) 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 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: -45 psf; (See General Limitation #9.)



Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(2): One or more layers of insulation adhered with Insta-Stick Roof 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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|--|---|--|
| ACFoam II, ENRGY-2, Iso+GL Minimum 1.5" thick | N/A | N/A |
| <u>Base of Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| Sturdi-Top, Structodek, GAFTEMP Recover Board, Retro-Fit Board Minimum ½" thick | N/A | N/A |

Note: All insulation shall be adhered to the primed or unprimed deck in Insta-Stick Roofing Adhesive applied in ¾"-1" wide beads spaced 12" o.c. Insulation is immediately placed over adhesive and walked-in. Please refer to Roofing Application Standard RAS 117 and insulation adhesive manufacturer's Product Control Notice of Acceptance for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

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 Multi-Ply Glass, Multi-Ply Glass CL, HK Tared Felt or HK Tared 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: -90 psf; (See General Limitation #9.)



Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(3): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

| <u>Base Insulation Layer (Optional)</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|--|---|
| ENRGY-2 Minimum 1.5" thick | N/A | N/A |
| <u>Base or Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| High Density Wood Fiberboard Minimum 1/2" thick | N/A | N/A |
| Dens Deck Minimum 1/4" thick | N/A | N/A |
| GAFTEMP Permalite Minimum 3/4" thick | N/A | N/A |

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) 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 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:

-227 psf; (for minimum ½” thick High Density Wood Fiberboard applied in hot asphalt with or without base insulation.) (See General Limitation #9.)

-237 psf; (for minimum ¼” thick Dens Deck applied in hot asphalt with or base insulation.) (See General Limitation #9.)

-212 psf; (for minimum ¾” thick GAFTEMP Permalite applied in hot asphalt with or without base insulation.) (See General Limitation #9.)



Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(4): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

| <u>Insulation Layer (Optional)</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|------------------------------------|---|--|
| Isoroc Minimum 1.5" thick | N/A | N/A |

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) 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 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: -167 psf; (See General Limitation #9.)



Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type A(5): 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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|--|---|--|
| ACFoam II, H-Shield Maximum 1.5" thick | N/A | N/A |
| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| (Optional) DensDeck Prime Maximum 0.25" thick | N/A | N/A |

Note: Insulation shall be adhered with an approved asphalt or BUR Plus 101, 202, 202A or 303 modified asphalt within the EVT range and at a rate of 25 lbs/100 ft² or Olybond 500 Adhesive Fastener applied in 0.75" – 1" wide beads spaced 12" o.c.. 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: 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 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 3I: Concrete, Insulated

Deck Description: Min. 2500 psi structural concrete or concrete plank

System Type A(6): 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.

Base Insulation Layer

Expanded EPS

Maximum 2" thick

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

N/A

N/A

Top Insulation Layer

DensDeck Prime

Maximum 0.25" thick

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

N/A

N/A

Note: Insulation shall be adhered with Olybond 500 Adhesive Fastener applied in 0.75" – 1" wide beads spaced 12" o.c. 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: 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 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.)



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- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type B(1):** Base layer of insulation mechanically attached, 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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| Whiteline, UltraGard Gold Minimum 1.3" thick | 1, 8, 11, 12, 18 or 21 | 1:2.7 ft ² |
| ENRGY-2, Iso 95+, H-Shield Minimum 1.4" thick | 1, 11, 12 or 16 | 1:4 ft ² |
| Isoroc Minimum 1.5" thick | 1, 11, 12 or 16 | 1:2.7 ft ² |
| Multi-Max Minimum 1.5" thick | 1, 11, 12, 18 or 21 | 1:2.9 ft ² |
| ENRGY 2 Plus Minimum 1.5" thick | 1, 9, 11, 12, 18 or 21 | 1:4 ft ² |
| Fiberglas Minimum 1 ⁵ / ₁₆ " thick | 1, 5, 8, 11, 12, 18 or 21 | 1:2.67 ft ² |
| ConPerl, GAFTEMP Permalite, FescoBoard Perlite Minimum 3/4" thick | 1 | 1:2 ft ² |
| BP High Strength, FM-90 Traffic Top/High Density, GAFTEMP High Density, High Density Wood Fiberboard, Sturdi-Top, Fiber Base HD1, HD6, Structodeck, Esgard, GAFTEMP Fiberboard, Huebert Fiberboard Minimum 1/2" thick | 1, 5, 11, 12 or 21 | 1:4 ft ² |

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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| BP High Strength, FM-90 Traffic Top/High Density, GAFTEMP High Density, High Density Wood Fiberboard, Sturdi-Top, Fiber Base HD1, HD6, Structodeck, Esgard, GAFTEMP Fiberboard, Huebert Fiberboard Minimum 1/2" thick | N/A | N/A |
| ConPerl, GAFTEMP Permalite, FescoBoard Perlite, Paroc Cap Board Minimum 3/4" thick | N/A | N/A |
| Fiberglass Roof Insulation Minimum 1 ⁵ / ₁₆ " thick | N/A | N/A |



Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: (Optional) 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 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: -45 psf; (See General Limitation #9.)



Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type B(2): 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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| AC Foam II, Hy-Therm AP Roof Insulation, Hy-Therm(a) AP Roof Insulation, H-Shield Minimum 1.5" thick | 11, 21 | 1:2 ft ² |
| AC Foam II, Hy-Therm AP Roof Insulation, Hy-Therm(a) AP Roof Insulation, ENRGY3, H-Shield Minimum 2" thick | 11,21 | 1:4 ft ² |

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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|--|---|--|
| ConPerl,GAFTEMP Permalite, Permalite, Fesco Board Minimum 0.75" thick | N/A | N/A |

Note: Apply optional top layer of insulation shall be adhered with approved hot asphalt or 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. 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 3I:** Concrete, Insulated
- Deck Description:** Min. 2500 psi structural concrete or concrete plank
- System Type B(3):** Base layer of insulation mechanically attached, top layer adhered with approved asphalt
- Thermal Barrier:** Minimum 0.5" thick DensDeck Prime loose laid

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer

| | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|---|---|--|
| ENRGY 3, Hy-Therm AP, H-Shield Minimum 1.5" thick | 11, 21 | 1:2 |

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 fastening details.

Top Insulation Layer

| | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|---|---|--|
| ConPerl, GAFTEMP Permalite, Permalite Roof Insulation, Fesco Board, Minimum 0.75" thick | N/A | N/A |
| High Density Fiberboard, GAFTEMP High Density Fiberboard, Roof Insulating Board, Fiber Base HD1, Fiberbase HD6, Structodek Minimum 0.5" thick | N/A | N/A |

Note: Top layer of insulation shall be adhered with BUR Plus 101, 102, 202, 202A, 303 or approved hot asphalt within the EVT range and at a rate of 25 lbs/100 ft². 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 or more plies 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 or GAFGLAS #75, 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, Arrowglass VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Glasply IV, Glasply Premier, PermaPly #28, GAFGLAS Ply 4, GAFGLAS FlexPly 6, 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: 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, 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. with a minimum 4" wide head lap.

Or

Pika Ply Supreme FR (TG), heat welded with a minimum 4" wide head lap.

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 3I:** Concrete, Insulated
- Deck Description:** Min. 2500 psi structural concrete or concrete plank
- System Type B(4):** Base layer of insulation mechanically attached, top layer adhered with approved asphalt
- Thermal Barrier:** Minimum 0.5" thick DensDeck Prime loose laid

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer

| | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|--|---|--|
| ACFoam II, H-Shield Minimum 1.5" thick | 11 | 1:2 |

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 fastening details.

Top Insulation Layer

| | Insulation Fasteners (Table 3) | Fastener Density/ft² |
|--|---|--|
| ACFoam II Minimum 1.5" thick | N/A | N/A |
| Dens Deck Minimum 0.5" thick | N/A | N/A |

Note: Top layer of insulation shall be adhered with Olybond Classic at a rate of 1 gal/sq, allowed to rise 1/8"-1/4" before insulation is applied. 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 or more plies 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 or GAFGLAS #75, 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)** 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, Arrowglass VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Glasply IV, Glasply Premier, PermaPly #28, GAFGLAS Ply 4, GAFGLAS FlexPly 6, 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: 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, 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. with a minimum 4" wide head lap.
Or
Pika Ply Supreme FR (TG), heat welded with a minimum 4" wide head lap.

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 3I:** Concrete, Insulated
- Deck Description:** Min. 2500 psi structural concrete or concrete plank
- System Type B(5):** Base layer of insulation mechanically attached, top layer adhered with approved adhesive
- Thermal Barrier:** Minimum 5/8" thick DensDeck, loose laid

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer

| | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|--|--|---|
| ACFoam II, H-Shield Minimum 1.5" thick | 11 | 1:2 |
| ACFoam II, H-Shield Minimum 2.0" thick | 11 | 1:4 |

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 fastening details.

Middle Insulation Layer

| | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|--|---|
| (Optional) ACFoam II, H-Shield Minimum 1.5" thick | N/A | N/A |

Note: Optional middle layer of insulation shall be adhered with OlyBond 500 in 0.75-1" wide beads spaced maximum 12" o.c. 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.

Top Insulation Layer

| | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|--|---|
| Dens Deck Prime Minimum 0.25" thick | N/A | N/A |

Note: Top layer of insulation shall be adhered with OlyBond 500 in 0.75-1" wide beads spaced maximum 12" o.c. 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 or more 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 Base Sheet Adhesive applied at 1.5 gal/sq.



Ply Sheet: One or more 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 2.5-3 gal/sq or Pika Ply Adhesive applied at 1.5 gal/sq.

Membrane: 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 applied at 1.5 gal/sq. with a minimum 4" wide head lap.

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 3I:** Concrete, Insulated
- Deck Description:** Min. 2500 psi structural concrete or concrete plank
- System Type B(6):** Base layer of insulation mechanically attached, top layer adhered with approved adhesive
- Thermal Barrier:** Minimum 0.5" thick DensDeck Prime, loose laid

All General and System Limitations apply.

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---------------------------------------|---|--|
| H-Shield Minimum 1.5" thick | 21 | 1:2 |

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 fastening details.

| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| Structodek High Density Fiberboard Minimum 0.5" thick | N/A | N/A |

Note: Top layer of insulation shall be adhered with Insta-Stik in 0.75-1" wide beads spaced maximum 12" o.c. 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 or more 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 Base Sheet Adhesive applied at 1.5 gal/sq.
- Ply Sheet:** One or more 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 2.5-3 gal/sq or Pika Ply Adhesive applied at 1.5 gal/sq.
- Membrane:** 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 applied at 1.5 gal/sq. with a minimum 4" wide head lap.
- 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 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| ACFoam II, H-Shield Minimum 1.0" thick (Maximum 1.0" thick for Steel Deck) | N/A | N/A |
| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| DensDeck Minimum 0.5" thick | 1, 11, 21 | 1:1.6 ft ² |

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 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 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| Expanded or Extruded EPS (min. 1.0 pcf density) Minimum 1.0" thick – Maximum 4.0" thick | N/A | N/A |
| | | |
| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| DensDeck Minimum 0.5" thick | 1, 11, 21 | 1:1.6 ft ² |

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 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 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(3): 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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| (Optional) ACFoam II, H-Shield Minimum 1.5" thick | N/A | N/A |
| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| ACFoam II, H-Shield Minimum 1.5" thick | 1, 11, 21 | 1:2.6 ft ² |
| ACFoam II, H-Shield Minimum 2" thick | 1, 11, 21 | 1:4 ft ² |

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 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 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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.

| <u>Base Insulation Layer</u> | <u>Insulation Fasteners</u> <u>(Table 3)</u> | <u>Fastener</u> <u>Density/ft²</u> |
|----------------------------------|---|--|
| AC Foam II Minimum 1.5" thick | N/A | N/A |

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

| <u>Top Insulation Layer</u> | <u>Insulation Fasteners</u> <u>(Table 3)</u> | <u>Fastener</u> <u>Density/ft²</u> |
|---|---|--|
| ConPearl, GAFTEMP Permalite, Permalite, Fesco Board Minimum 1" thick | 1, 11, 21 | 1:2 ft ² |

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



Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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.

| <u>Base Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|--|---|--|
| AC Foam II, H-Shield Minimum 1.5" thick | N/A | N/A |

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

| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| Structodek High Density Fiberboard, GAFTEMP High Density Fiberboard Minimum 0.5" thick | 11 | 1:3 ft ² |
| Structodek, Roof Insulating Board, Fiber Base HD1, HD6 Minimum 0.5" thick | 1, 11, 21 | 1:2 ft ² |

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)



Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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>Base Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|--|---|--|
| AC Foam II, H-Shield Minimum 1.5" thick | N/A | N/A |

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

| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| Standard Fiberglas Roof Insulation, FiberGlass Roof Insulation, Wide Flute Fiberglas Roof Insulation, Fiber Glass Roof Insulation (Wide Flute) Minimum 0.5" thick | 1, 11, 21 | 1:3 ft ² |

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)



Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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>Base Insulation Layer</u> | <u>Insulation Fasteners</u> <u>(Table 3)</u> | <u>Fastener</u> <u>Density/ft²</u> |
|--|---|--|
| AC Foam II, H-Shield Minimum 2" thick | 11, 21 | 1:4 ft ² |

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

| <u>Top Insulation Layer</u> | <u>Insulation Fasteners</u> <u>(Table 3)</u> | <u>Fastener</u> <u>Density/ft²</u> |
|--|---|--|
| Structodeck High Density Fiberboard, GAFTEMP High Density Fiberboard Minimum 0.5" thick | 11 | 1:3 ft ² |
| Structodeck, Roof Insulating Board, Fber Base HD1, HD6 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 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: (Optional)
 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 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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.

| <u>Top Insulation Layer</u> | <u>Insulation Fasteners</u> <u>(Table 3)</u> | <u>Fastener</u> <u>Density/ft²</u> |
|---|---|--|
| ConPearl, GAFTEMP Permalite, Permalite, Fesco Board Minimum 1" thick | 1, 11, 21 | 1:2 ft ² |

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)



Deck Type 3I: Concrete Decks, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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.

| <u>Top Insulation Layer</u> | <u>Insulation Fasteners</u> (Table 3) | <u>Fastener</u> <u>Density/ft²</u> |
|---|--|--|
| Standard or Standard Fiberglas Roof Insulation, Wide Flute Fiberglas Roof Insulation, Fiber Glass Roof Insulation (Wide Flute), Fiber Glass Roof Insulation Minimum 15/16" thick | 1, 11, 21 | 1:3 ft ² |

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)



Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| ACFoam II, H-Shield Minimum 2.0" thick | N/A | N/A |

Note: Top layer of insulation is adhered to loose laid base layer with Insulation Adhesive SF applied in 0.75"-1.5" wide beads spaced maximum 12" o.c.

| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---------------------------------|---|--|
| SECUROCK Minimum 0.25" thick | 11, 21 | 1:1.33 ft ² |

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 with a minimum 4" wide head lap..



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 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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.

| <u>Base Insulation Layer</u> | <u>Insulation Fasteners</u> <u>(Table 3)</u> | <u>Fastener</u> <u>Density/ft²</u> |
|---|---|--|
| ACFoam II, ENRGY 3, Hy-Therm AP, H-Shield Minimum 1.5" thick | N/A | N/A |
| <u>Top Insulation Layer</u> | <u>Insulation Fasteners</u> <u>(Table 3)</u> | <u>Fastener</u> <u>Density/ft²</u> |
| DensDeck Prime Minimum 0.5" thick | 21 | 1:1.33 |
| Minimum 0.5" thick | 21 | 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 layers 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. with a minimum 4" wide head lap.

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 ft²)
 -157.5 psf (DensDeck Prime attached at 1:1 ft²)
 (See General Limitation #7)



Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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.

| <u>Base Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| ACFoam II, ENRGY 3, Hy-Therm AP, H-Shield Minimum 1.5" thick | N/A | N/A |
| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| SECUROCK Minimum 0.5" thick | 21 | 1:1.33 |
| Minimum 0.5" thick | 21 | 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 layers 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. with a minimum 4" wide head lap.

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 ft²)
 -172.5 psf (SECUROCK attached at 1:1 ft²)
 (See General Limitation #7)



Deck Type 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| ACFoam II, H-Shield Minimum 1.5" thick | N/A | N/A |
| Any approved EPS (min 1 pcf) over a loose laid .5" thick Dens Deck Thermal Barrier Minimum 1.0" thick | N/A | N/A |
| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| DensDeck Prime Minimum 0.5" thick | 11, 21 (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 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. with a minimum 4" wide head lap.

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 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(14): All layers of insulation simultaneously attached

Thermal Barrier: (Optional) Minimum 0.5" thick DensDeck Prime, loose laid

All General and System Limitations apply.

One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|--|---|--|
| ACFoam II. H-Shield Minimum 1.5" thick | N/A | N/A |
| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| Structodek High Density Wood Fiberboard, GAFTEMP High Density Fiberboard Minimum 0.5" thick | 11 | 1:3 ft ² |
| Roof Insulating Board, Structodek, Fiber Base HD1, Fiber Base HD6 Minimum 0.5" thick | 11, 21 | 1:2 ft ² |

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 or more plies 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 or GAFGLAS #75, 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, Arrowglass VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Glasply IV, Glasply Premier, PermaPly #28, GAFGLAS Ply 4, GAFGLAS FlexPly 6, 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: 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, 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. with a minimum 4” wide head lap.

Or

Surfacing: Pika Ply Supreme FR (TG), heat welded with a minimum 4” wide head lap.
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 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(15): All layers of insulation simultaneously attached

All General and System Limitations apply.

Thermal Barrier: Minimum 0.5” thick DensDeck Prime, loose laid
 One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|--|---|--|
| ACFoam II, Hy-Therm AP, H-Shield Minimum 1.5” thick | N/A | N/A |
| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| Dens Deck, Dens Deck Prime Minimum 0.25” thick | 11 | 1:4 ft ² |

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 or more plies 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 or GAFGLAS #75, 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, Arrowglass VI, Performance Ply, BUR Plus Polyester Ply, BUR Plus Polyester Ply 200, BUR Plus Polyester Ply 250, Glasply IV, Glasply Premier, PermaPly #28, GAFGLAS Ply 4, GAFGLAS FlexPly 6, 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: 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, 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. with a minimum 4” wide head lap.

Or

Pika Ply Supreme FR (TG), heat welded with a minimum 4” wide head lap.



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 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(16): All layers of insulation simultaneously attached

All General and System Limitations apply.

Thermal Barrier: Minimum 0.5" thick DensDeck Prime, loose laid
 One or more layers of any of the following insulations.

| <u>Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|--|---|--|
| ACFoam II, H-Shield Minimum 1.5" thick | 11, 21 | 1:4 ft ² |
| Hy-Therm AP Minimum 1.5" thick | 11, 21 | 1:2.9 ft ² |

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 or more plies of Multi-Ply Glass CL, Performance Ply, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 25 lbs./sq.

Membrane: Two to three plies of Multi-Ply Glass, Multi-Ply Glass CL, Pika Ply SS-2 or Performance Ply adhered with Multi-Ply Adhesive at 2.5-3.0 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 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(17): All layers of insulation simultaneously attached

All General and System Limitations apply.

Thermal Barrier: Minimum 5/8" thick DensDeck, loose laid
 One or more layers of any of the following insulations.

| <u>Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| ACFoam II, H-Shield Minimum 1.5" thick | 11, 21 | 1:2.6 ft ² |
| ACFoam II, H-Shield Minimum 2.0" thick | 11, 21 | 1:4 ft ² |

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 or more 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 Base Sheet Adhesive applied at 1.5 gal/sq.

Ply Sheet: One or more 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 2.5-3 gal/sq or Pika Ply Adhesive applied at 1.5 gal/sq.

Membrane: 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 applied at 1.5 gal/sq. with a minimum 4" wide head lap.

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 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(18): All layers of insulation simultaneously attached

All General and System Limitations apply.

Thermal Barrier: Minimum 0.5" thick DensDeck Prime, loose laid
 One or more layers of any of the following insulations.

| <u>Base Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| ACFoam II, H-Shield Minimum 1.5" thick | N/A | N/A |
| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| Dens Deck Prime Minimum 0.5" thick | 11, 21 (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 or more 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 Base Sheet Adhesive applied at 1.5 gal/sq.

Ply Sheet: One or more 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 2.5-3 gal/sq or Pika Ply Adhesive applied at 1.5 gal/sq.

Membrane: 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 applied at 1.5 gal/sq. with a minimum 4" wide head lap.

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 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type C(19): 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 (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| ACFoam II, H-Shield Minimum 1.5" thick | N/A | N/A |
| <u>Top Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
| SECUROCK Minimum 0.5" thick | 17 | 1:1 ft ² |

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. with a minimum 4" wide head lap.

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 3I: Concrete, Insulated
Deck Description: Min. 2500 psi structural concrete or concrete plank
System Type D: All layers of insulation and base sheet simultaneously attached

All General and System Limitations apply.

Thermal Barrier: (Optional)
 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>Base Insulation Layer</u> | <u>Insulation Fasteners (Table 3)</u> | <u>Fastener Density/ft²</u> |
|---|---|--|
| ACFoam II, H-Shield 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. with a minimum 4" wide head lap.

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)



Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F: (Optional) Base sheet adhered with approved asphalt.

All General and System Limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of anchor sheet.

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 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 or 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.)



CONCRETE DECK SYSTEM LIMITATIONS:

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

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.: 09-0722.05
Expiration Date: 08/01/13
Approval Date: 09/09/09
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