



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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NOTICE OF ACCEPTANCE (NOA)

Performance Roof Systems, Inc. dba SOPREMA Group Company
4800 Dr. Martin Luther King Jr. Blvd.
Kansas City, MO. 64130

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Performance Modified Roof Systems over Steel Decks

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

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

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

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

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

This NOA renews and revises NOA# 20-0127.06 and consists of pages 1 through 27.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 22-0706.05
Expiration Date: 08/23/27
Approval Date: 08/18/22
Page 1 of 27

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	APP Modified Bitumen
Deck Type:	Steel
Maximum Design Pressure	- 172.5 psf
Fire Classification:	See General Limitation #1

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>
Derbigum GP	33'4" x 39.4"; roll weight: 90 lbs.	ASTM D 6223	Modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbigum XPS	33'4" x 39.4"; roll weight: 90 lbs.	ASTM D 6223	Modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbicolor GP	33'4" x 39.4"; roll weight: 100 lbs.	ASTM D 6223	Mineral surfaced modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbicolor XPS	33'4" x 39.4"; roll weight: 100 lbs.	ASTM D 6223	Mineral surfaced modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbigum GP-FR	33'4" x 39.4"; roll weight: 90 lbs.	ASTM D 6223	Fire resistant modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbigum XPS-FR	33'4" x 39.4"; roll weight: 90 lbs.	ASTM D 6223	Fire resistant modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbicolor GP-FR	33'4" x 39.4"; roll weight: 100 lbs.	ASTM D 6223	Mineral surfaced fire-resistant modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbicolor XPS-FR	33'4" x 39.4"; roll weight: 100 lbs.	ASTM D 6223	Mineral surfaced fire-resistant modified bitumen glass fiber and polyester reinforced membrane for torch application or Permastic cold adhesive application.



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>
Derbicolor P-FR	33'4" x 39.4"; roll weight: 90 lbs.	ASTM D 6222	Mineral surfaced fire-resistant APP modified bitumen polyester reinforced membrane for torch application or Permastic cold adhesive application.
Derbibrite	33'4" x 39.4"; roll Weight: 90 lbs.	ASTM D 6223	Modified bitumen membrane reinforced with fiberglass/polyester with acrylic coating.
Derbibase HV	49'6" x 39.4"; roll Weight: 90 lbs.	ASTM D 5147	APP modified bitumen membrane reinforced with polyester mat.
Derbibase	66' x 39.4"; roll weight: 90 lbs.	ASTM D 5147	APP modified bitumen glass fiber base sheet for mechanical attachment or Permastic cold adhesive application.
Derbicolor P	39.4" x 33'; roll weight: 103 lbs.	ASTM D 6222	Mineral surfaced APP polymer modified bitumen, polyester reinforced membrane.
Derbigum P	33' x 39.4"; roll weight: 89 lbs.	ASTM D 6222	APP polymer modified bitumen polyester reinforced membrane.
Derbibase Ultra	49.5' x 39.4"; roll weight: 102 lbs.	ASTM D5147	APP modified bitumen glass fiber base sheet for mechanical attachment of Permastic cold adhesive application.
Derbibase SA	39" x 49' (1.5 sq.)	ASTM D 6163	Self-adhered, sanded surfaced, fiberglass reinforced membranes.
PRS Glass Base	108' x 36"; roll weight: 82 lbs.	ASTM D 4601	Asphalt coated fiberglass base sheet for use in hot-mop, mechanically fastened or Permastic cold adhesive application.
PRS Glass Ply IV	180' x 36"; roll weight: 60 lbs.	ASTM D 2178 Type IV	Asphalt coated fiberglass ply sheet for use in hot-mop, or mechanically fastened or Permastic cold adhesive application.
PRS Glass Ply VI	180' x 36"; roll weight: 60 lbs.	ASTM D 2178 Type IV	Asphalt coated fiberglass ply sheet for use in hot-mop or mechanically fastened or Permastic cold adhesive application.
PRS Modified Base	180' x 36"; roll weight: 82 lbs.	ASTM D 5147	SBS polymer modified bitumen base sheet.
Bitutak MB	33' x 39.4"; roll weight: 89 lbs.	ASTM D 6222	APP polymer modified bitumen polyester reinforced membrane.



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>
Resisto Bitutak MB Smooth	33' x 39.4"; roll weight: 89 lbs.	ASTM D 6222	APP polymer modified bitumen polyester reinforced membrane.
Bitutak MB Mineral	39.4" x 33'; roll weight: 103 lbs.	ASTM D 6222	Mineral surfaced APP polymer modified bitumen, polyester reinforced membrane.
Resisto Bitutak MB Mineral	39.4" x 33'; roll weight: 103 lbs.	ASTM D 6222	Mineral surfaced APP polymer modified bitumen, polyester reinforced membrane.
Bitutak Cold	33' x 39.4"; roll weight: 89 lbs.	ASTM D 6222	APP polymer modified bitumen polyester reinforced membrane.
Bitutak Cold Mineral	39.4" x 33'; roll weight: 103 lbs.	ASTM D 6222	Mineral surfaced APP polymer modified bitumen, polyester reinforced membrane.
Permastic	5-gallon pails 55-gallon drums 350-gallon tanks		Asphalt-based adhesive formulated especially for adhering Derbigum and Derbicolor roofing membranes, Derbibase and Derbibase Ultra, glass ply sheets and glass base sheets.

APPROVED INSULATIONS:

TABLE 2

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
ACFoam-II	various	TAS 110	Polyisocyanurate foam insulation	Atlas Roofing Corp.
ACFoam-III	various	TAS 110	Polyisocyanurate foam insulation	Atlas Roofing Corp.
DensDeck, DensDeck Prime	various	TAS 110	Water resistant gypsum board	Georgia-Pacific Gypsum LLC
Derbiboard	various	TAS 110	Polyisocyanurate foam insulation	Derbigum Americas, Inc.
Derbiboard CA	various	TAS 110	Polyisocyanurate foam insulation	Derbigum Americas, Inc.
ENRGY 3	Various	TAS 110	Polyisocyanurate foam insulation	Johns Manville Corp.
FescoBoard	various	TAS 110	High density perlite rigid insulation board	Johns Manville Corp.
ISO 95+ GL	various	TAS 110	Polyisocyanurate/Perlite rigid insulation	Firestone Building Products Company, LLC
H-Shield	various	TAS 110	Polyisocyanurate foam insulation	Hunter Panels, LLC
Ultra-Max, Multi-Max FA-3	various	TAS 110	Polyisocyanurate foam insulation	Rmax Operating, LLC
Retro-Fit Board	Various	TAS 110	Perlite cover board	Johns Manville Corp.
SECUROCK Gypsum-Fiber Roof Board	various	TAS 110	Water resistant gypsum board	USG Corporation
Structodek High Density Fiberboard Roof Insulation	Various	TAS 110	Wood fiber insulation board	Blue Ridge Fiberboard, Inc.
SOPRABOARD	various	TAS 100	Mineral fortified asphaltic cored coverboard	SOPREMA, Inc.



APPROVED FASTENERS/ADHESIVES:**TABLE 3**

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	#12 Standard Roofgrip & OMG Heavy Duty	Base sheet fastening assembly	Various	OMG, Inc.
2.	Dekfast DF-#12-PH3, Dekfast PLT-H-2-7/8	Insulation fastener/Plate	Various	SFS Group USA, Inc.
3.	Trufast #14 HD Fastener	Insulation fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
4.	OMG OlyBond 500	Insulation adhesive	Various	OMG, Inc.
5.	Insta-Stik Quik Set Insulation Adhesive	Insulation adhesive	Various	The Dow Chemical Company
6.	Pliodeck Insulation Adhesive	Insulation adhesive	Various	Ashland, Inc.
7.	Perlok-O #12 screw	Base sheet fastening assembly	Various	Derbigum Americas, Inc.
8.	Perlok-O #14 screw	Base sheet fastening assembly	Various	Derbigum Americas, Inc.
9.	Perlok-O Plate	3" round stress plate	3" round	Derbigum Americas, Inc.
10.	Perlok-O 3" Ribbed Plate	3" stress plate with ribs	3" round	Derbigum Americas, Inc.
11.	Perlok #12 DP	Fastener	Various	Derbigum Americas, Inc.
12.	Perlok Steel Plate	3" stress plate	3" round	Derbigum Americas, Inc.
13.	Perlok XHD	Insulation fastener	Various	Derbigum Americas, Inc.
14.	Perlok Accutrac Flat Bottom Plate	Insulation plate	3" square	Derbigum Americas, Inc.
15.	Trufast #15 EHD Fastener	Insulation fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
16.	Trufast 3" Metal Insulation Plate	3" stress plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
17.	DUOTACK	Two-part elastomeric urethane foam adhesive	5, 50 gallon pail	SOPREMA, Inc.
18.	DUOTACK 365	Two-part elastomeric urethane foam adhesive	5, 50 gallon pail	SOPREMA, Inc.

APPROVED SURFACING/COATING OPTIONS:

TABLE 4

Chosen components must be applied according to manufacturer's application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

<u>System Number</u>	<u>Manufacturer</u>	<u>Application</u>
1.	Generic	Gravel or slag applied at an application rate of 400 lbs. or 300 lbs., respectively; adhered to the substrate with approved mopping asphalt at an application rate of 60 lbs./sq. \pm 15% or Permastic adhesive at an application rate of 1.5 to 2 gal./sq.
2.	Gardner Asphalt Corp.	APOC #302 Fibered Emulsion Roof Coating applied at an application rate of 3 gal./sq.
3.	Gardner Asphalt Corp.	APOC #400 Sunbrite Aluminum Emulsion Roof Coating applied at an application rate of 1.3 gal./sq.
4.	Karnak Corp.	Karnak #97 AF applied at an application rate of 1.5 gal./sq.

EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Exterior Research & Design, LLC	10720.10.97-1	TAS 114	10/17/97
Factory Mutual Research Corporation	2W3A6.AM	FM 4470	02/21/97
	2Y3A2.AM		
	2B5A5.AM	FM 4470	05/14/97
	1D7A4.AM	FM 4470	11/9/98
	2B5A7.AM	FM 4470	03/1/99
	3007274	FM 4470	02/07/01
	3003642		
	3001472		
	3017037	FM 4470	09/30/05
	ID 01669-267	Product Name Change	10/14/05
	ID 1039-267	Product Name Change	07/08/04
	3024750	FM 4470	06/21/06
	3027878	FM 4470	01/22/07
	3039338	FM 4470	08/18/10
	3046765	FM 4470	02/15/13
	3049890	FM 4470	06/20/14
	3051281	FM 4470	11/14/14
	3059403	FM 4470	06/15/16
	3059931	FM 4470	12/19/16
PRI Construction Materials Technologies	PRS-067-02-01	ASTM D 1876	05/05/17
	PRS-057-02-01	ASTM D 6222	01/24/19
	PRS-066-02-01	ASTM D 6222	01/24/19
	691T0016	ASTM D 6509	09/16/21
	691T0017	ASTM D 6509	09/15/21
	691T0018	ASTM D 6222	10/01/21
	691T0019	ASTM D 6223	11/30/21
	691T0020	ASTM D 6223	10/01/21
	691T0025	ASTM D 6223	04/26/22
	691T0026	ASTM D 6223	04/27/22
	691T0028	ASTM D 6222	04/22/22
Underwriters Laboratories, Inc.	TGFU.R13327	Fire Classification Compliance	08/08/19
Trinity ERD	S45010.02.14	ASTM D 6506	02/07/14

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies:</u>	<u>Date</u>
FM Approval Deck Limitation	RoofNav Listing	B(2), B(4), B(5), D(2), D(3), D(4), D(5)	01/01/13

APPROVED ASSEMBLIES

Membrane Type:	APP
Deck Type 2I:	Steel, Insulated
Deck Description:	18-22 ga., 33 ksi steel.
System Type B(1):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt, Permastic.

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>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.5" thick	1, 2, 3	1:3ft²
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.3" thick	1, 2, 3	1:3ft²

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III, Ultra-Max Minimum 1.5" thick	N/A	N/A
FescoBoard Minimum ¾" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A
SOPRABOARD Minimum ⅛" thick	N/A	N/A

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

Base Sheet:	<p>One ply of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP adhered to the insulated substrate with a full mopping of approved mopping asphalt at an application rate of 25 lb./sq. \pm 15%</p> <p>Or</p> <p>One ply of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP torch-applied*.</p> <p>*Torch applications not applicable with polyisocyanurate foam insulation.</p>
Ply Sheet:	(Optional) One or two plies of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP adhered to the substrate with a full mopping of approved mopping asphalt at an application rate of 25 lb./sq. \pm 15% or Permastic adhesive at an application rate of 1.5 to 2gal/sq. or Derbibase SA, self-adhered.
Membrane:	Derbigum GP, Derbicolor GP, Derbigum XPS, Derbicolor XPS, Derbigum GP-FR, Derbicolor GP-FR, Derbicolor P-FR, Derbigum XPS-FR, Derbicolor XPS-FR, Derbigum P, Derbicolor P, Derbicolor P-FR, Bitutak MB, Resisto Bitutak MB Smooth, Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold or Bitutak Cold Mineral torch applied or adhered with Permastic adhesive to base and/or ply sheet at an application rate of 1.5 to 2gal/sq.
Surfacing: (Optional)	Apply any coating listed in Table 4, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)

Membrane Type:	APP
Deck Type 2I:	Steel, Insulated
Deck Description:	Minimum 22ga. Grade 33 steel deck attached to supports spaced 6 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. along each intermediate support. Deck side laps secured 24" o.c. with Traxx/1 fasteners. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table
System Type B(2):	Base layer of insulation mechanically fastened, top layer adhered with Insta-Stik Quik Set Insulation 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>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III, Ultra-Max Minimum 1.5" thick	1, 2, 3	1:1.45t ²
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.3" thick	1, 2, 3	1:1.45t ²

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.5" thick	N/A	N/A
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.3" thick	N/A	N/A
FescoBoard Minimum ¾" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A
SOPRABOARD Minimum ⅛" thick	N/A	N/A



Note: Apply top layer of insulation secured to the base layer of insulation with ¾” to 1” beads of Insta-Stik Quik Set Insulation Adhesive Roofing Adhesive in 12” on center rows.

Base Sheet:	One ply of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP adhered to the insulated substrate with a full mopping of approved mopping asphalt at an application rate of 25 lb./sq. ± 15% Or One ply of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP torch-applied*. *Torch applications not applicable with polyisocyanurate foam insulation.
Ply Sheet:	(Optional) One or two plies of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP adhered to the substrate with a full mopping of approved mopping asphalt at an application rate of 25 lb./sq. ± 15% or Permastic adhesive at an application rate of 1.5 to 2gal/sq. or Derbibase SA, self-adhered.
Membrane:	Derbigum GP, Derbicolor GP, Derbigum XPS, Derbicolor XPS, Derbigum GP-FR, Derbicolor GP-FR, Derbicolor P-FR, Derbigum XPS-FR, Derbicolor XPS-FR, Derbigum P, Derbicolor P, Derbicolor P-FR, Bitutak MB, Resisto Bitutak MB Smooth, Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold or Bitutak Cold Mineral torch applied or adhered with Permastic adhesive to base and/or ply sheet at an application rate of 1.5 to 2gal/sq.
Surfacing: (Optional)	Apply any coating listed in Table 4, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-60 psf. (See General Limitation #7)

Membrane Type:	APP
Deck Type 2I:	Steel, Insulated
Deck Description:	18-22 ga.33ksi. steel
System Type B(3):	Base layer of insulation mechanically fastened, top layer adhered with OMG OlyBond 500 or DUOTACK or DUOTACK 365 at a continuous rate of 0.5-0.75-inch wide ribbons 12" o.c.

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>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III, Ultra-Max Minimum 1.5" thick	1, 2, 3	1:3ft ²
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.3" thick	1, 2, 3	1:3ft ²

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.5" thick	N/A	N/A
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.3" thick	N/A	N/A
FescoBoard Minimum ¾" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A
SOPRABOARD Minimum ⅛" thick	N/A	N/A

Note: Apply top layer of insulation adhered to the mechanically attached base layer of insulation with OMG OlyBond 500 adhesive applied at the rate of 1 gallon per square, DUOTACK or DUOTACK 365 at a continuous rate of 0.5-0.75-inch wide ribbons, 12-inch o.c.



Base Sheet:	<p>One ply of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP adhered to the insulated substrate with a full mopping of approved mopping asphalt at an application rate of 25 lb./sq. \pm 15%</p> <p>Or</p> <p>One ply of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP torch-applied*.</p> <p>*Torch applications not applicable with polyisocyanurate foam insulation</p>
Ply Sheet:	(Optional) One or two plies of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP adhered to the substrate with a full mopping of approved mopping asphalt at an application rate of 25 lb./sq. \pm 15% or Permastic adhesive at an application rate of 1.5 to 2gal/sq. or Derbibase SA, self-adhered.
Membrane:	Derbigum GP, Derbicolor GP, Derbigum XPS, Derbicolor XPS, Derbigum GP-FR, Derbicolor GP-FR, Derbicolor P-FR, Derbigum XPS-FR, Derbicolor XPS-FR, Derbigum P, Derbicolor P, Derbicolor P-FR, Bitutak MB, Resisto Bitutak MB Smooth, Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold or Bitutak Cold Mineral torch applied or adhered with Permastic adhesive to base and/or ply sheet at an application rate of 1.5 to 2gal/sq.
Surfacing: (Optional)	Apply any coating listed in Table 4, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)

Membrane Type: APP

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22ga. ASTM A1008 SS Grade 80 steel deck attached to structural supports spaced 6ft. o.c. with TRAXX/5 fasteners 6 in. o.c. at each bearing point. Deck side laps secured 24 in. o.c. with TRAXX/1 fasteners.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table

System Type B(4): Insulation layers mechanically fastened.

All General and System limitations apply.

One or more layers of any of the following insulations.

<u>Insulation Layers</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III, Ultra-Max Minimum 1.5" thick	1, 2, 3	1:1.33ft ²
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.3" thick	1, 2, 3	1:1.33ft ²
DensDeck Prime Minimum ½" thick	1, 2, 3	1:1.33ft ²

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

Base Sheet: One ply of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP adhered to the insulated substrate with a full mopping of approved mopping asphalt at an application rate of 25 lb./sq. ± 15% or Permastic adhesive at an application rate of 1.5 to 2gal./sq.

Ply Sheet: (Optional) One or two plies of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP adhered to the substrate with a full mopping of approved mopping asphalt at an application rate of 25 lb./sq. ± 15% or Permastic adhesive at an application rate of 1.5 to 2gal./sq. or Derbibase SA, self-adhered.

Membrane: Derbigum GP, Derbicolor GP, Derbigum XPS, Derbicolor XPS, Derbigum GP-FR, Derbicolor GP-FR, Derbigum P, Derbicolor P, Derbicolor P-FR, Derbigum XPS-FR, Derbicolor XPS-FR, Bitutak MB, Resisto Bitutak MB Smooth, Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold or Bitutak Cold Mineral torch applied or adhered with Permastic adhesive to base and/or ply sheet at an application rate of 1.5 to 2gal/sq.

**Surfacing:
(Optional)** Apply any coating listed in Table 4, or any Miami-Dade approved coating system.

**Maximum Design
Pressure:** -67.5 psf. (See General Limitation #7)



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Membrane Type: APP

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., Type B (min. 33 ksi) steel deck is secured to structural support at a maximum spacing of 6 ft. o.c. Steel deck is attached to supports with Teks 4, Teks 5, Traxx/4, or Traxx/5 fasteners spaced a maximum 6" o.c. Side Laps are fastened at 24" o.c. with Teks 1 or Traxx/1 fasteners.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table

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

All General and System Limitations apply.

One or more layers of any of the following insulations.

Thermal Barrier: (Optional) Minimum ¾" FescoBoard or ½" DensDeck or SECUROCK Gypsum-Fiber Roof Board loose laid on the deck.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Derbiboard, ACFoam-II Minimum 1.5" thick	7 or 8 with 9 or 10 11 with 12	1:1.45 ft ²

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

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation, Retro-Fit Board Minimum 1/2" thick	N/A	N/A
FescoBoard Minimum ¾" thick	N/A	N/A

Note: Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base or Derbibase adhered to the insulated substrate with a full mopping of asphalt at an application rate of 20-25 lb/sq.

Ply Sheet: (Optional) One or more plies of Derbibase, Derbibase Ultra, Derbigum GP, Derbigum GP-FR, Derbigum XPS or Derbigum XPS-FR fully adhered by torch to base sheet or Derbibase SA, self-adhered.



Membrane:	One ply of Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR, Derbicolor GP, Derbicolor GP-FR, Derbigum P, Derbicolor P, Derbicolor P-FR, Derbicolor XPS, Derbicolor XPS-FR, Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold or Bitutak Cold Mineral fully adhered by torch to base and/or ply sheet.
Surfacing: (Optional)	Apply any coating listed in Table 4, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-45psf. (See General Limitation #7) -67.5 psf with Minimum 2” thick Base Insulation Layer (See General Limitation #7)



Membrane Type: APP
Deck Type 2I: Steel, Insulated
Deck Description: 18-22 ga., 33 ksi steel
System Type C(1): All layers of insulation simultaneously attached.

All General and System limitations apply.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III, Ultra-Max Minimum 1.5" thick	N/A	N/A
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.3" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.5" thick	1, 2, 3	1:3ft ²
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.3" thick	1, 2, 3	1:3ft ²
FescoBoard Minimum ¾" thick	1, 2, 3	1:1.6 ft ²
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	1, 2, 3	1:4ft ²
DensDeck Prime Minimum ¼" thick	1, 2, 3	1:4ft ²
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	1, 2, 3	1:4ft ²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.



Base Sheet:	One ply of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP adhered to the insulated substrate with a full mopping of approved mopping asphalt at an application rate of 25 lb./sq. \pm 15% or Permastic adhesive at an application rate of 1.5 to 2gal./sq.
Ply Sheet:	(Optional) One or two plies of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP adhered to the substrate with a full mopping of approved mopping asphalt at an application rate of 25 lb./sq. \pm 15% or Permastic adhesive at an application rate of 1.5 to 2gal/sq. or Derbibase SA, self-adhered.
Membrane:	Derbigum GP, Derbicolor GP, Derbigum XPS, Derbicolor XPS, Derbigum GP-FR, Derbicolor GP-FR, Derbigum P, Derbicolor P, Derbicolor P-FR, Derbigum XPS-FR, Derbicolor XPS-FR, Bitutak MB, Resisto Bitutak MB Smooth, Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold or Bitutak Cold Mineral torch applied or adhered with Permastic adhesive to base and/or ply sheet at an application rate of 1.5 to 2gal/sq
Surfacing: (Optional)	Apply any coating listed in Table 4, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-45psf. (See General Limitation #9)



Membrane Type: APP

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga., 33 ksi steel

System Type C(2): 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>
Derbiboard, ACFoam-II, H-Shield, ENRGY 3, ISO 95 +GL Minimum 1.5" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners per board shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	1, 2, 3	1:2ft ²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment. SECUROCK Gypsum-Fiber Roof Board may be optionally primed with ASTM D 41 asphaltic primer applied at a rate of 0.75 gal/sq.

Base Sheet: One ply of Derbibase adhered to the substrate with Permastic adhesive at an application rate of 1.5 to 2gal./sq. or Derbibase SA, self-adhered.

Membrane: Derbigum GP, Derbicolor GP, Derbigum XPS, Derbicolor XPS, Derbigum GP-FR, Derbicolor GP-FR, Derbigum P, Derbicolor P, Derbicolor P-FR, Derbigum XPS-FR, Derbicolor XPS-FR, Bitutak MB, Resisto Bitutak MB Smooth, Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold, Bitutak Cold Mineral or Derbibrite torch applied or adhered with Permastic adhesive to base and/or ply sheet at an application rate of 1.5 to 2gal/sq.

**Surfacing:
(Optional)** Apply any coating listed in Table 4, or any Miami-Dade approved coating system.

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



Membrane Type:	APP
Deck Type 2I:	Steel, Insulated
Deck Description:	18-22 ga., 33 ksi steel
System Type D(1):	All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

All General and System limitations apply.

One or more layers of any of the following insulations.

<u>Insulation Layers</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III, Ultra-Max Minimum 1.5" thick	N/A	N/A
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 1.3" thick	N/A	N/A
FescoBoard Minimum ¾" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A
DensDeck Prime Minimum ¼" thick	N/A	N/A
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" 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 4ft., and four fasteners for any insulation board having no dimension greater than 8ft.

Base Sheet:	Two plies of PRS Glass Ply IV, PRS Glass Ply VI, PRS Modified Base, PRS Glass Base, Derbibase, Derbibase Ultra or Derbigum GP mechanically fastened to the deck through the insulation as detailed below.
Fastening:	Trufast 3" Metal Insulation Plates with Trufast #14 HD Fasteners at 12 in o.c. at the min. 4" side lap, 18" o.c. and two rows in the center of the sheet 12 in from each base sheet side lap.
Ply Sheet:	One or two plies of Derbigum GP, Derbigum XPS, Derbibase or Derbibase Ultra adhered to the substrate with a full mopping of approved mopping asphalt at an application rate of 25 lb./sq. ± 15% or Permastic adhesive at an application rate of 1.5 to 2gal/sq. or Derbibase SA, self-adhered.



Membrane:	Derbigum GP, Derbicolor GP, Derbigum XPS, Derbicolor XPS, Derbigum GP-FR, Derbicolor GP-FR, Derbigum P, Derbicolor P, Derbicolor P-FR, Derbigum XPS-FR, Derbicolor XPS-FR, Bitutak MB, Resisto Bitutak MB Smooth, Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold, Bitutak Cold Mineral or Derbibrate torch applied or adhered with Permastic adhesive to base and/or ply sheet at an application rate of 1.5 to 2gal/sq.
Surfacing: (Optional)	Apply any coating listed in Table 4, or any Miami-Dade approved coating system.
Maximum Design Pressure:	-45psf. (See General Limitation #9)



Membrane Type: APP

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 20 ga. Type B Grade 80 steel deck attached to structural supports spaced 6 ft. o.c. with Traxx 5 screws with 0.75 in. washers 6 in. o.c. Deck side laps secured 12 in. o.c. with Traxx/1 screws.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table

System Type D(2): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

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>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 2.0" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board, DensDeck Minimum 0.5" 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.

Base Sheet: One ply Derbibase HV mechanically fastened to the deck through the insulation as detailed below.

Fastening: Base Sheet fastened to deck with Trufast #15 EHD Fasteners with Trufast 3" Metal Insulation Plates spaced 12 in. o.c. at the minimum 3 in. base sheet side laps and 12 in. o.c. in two staggered rows 12 in. o.c. in the field of the sheet. Base sheet side laps are torch adhered prior to mechanical fastening.

Ply Sheet: One or two plies of Derbibase Ultra torch applied to the substrate.

Membrane: One ply of Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR, Derbicolor GP, Derbicolor GP-FR, Derbicolor P-FR, Derbicolor XPS or Derbicolor XPS-FR fully adhered by torching to ply sheet.

**Surfacing:
(Optional)** Apply any coating listed in Table 4, or any Miami-Dade approved coating system.

Maximum Design Pressure: -172.5psf. (See General Limitation #7)



Membrane Type: APP

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 18-22 ga. Type B Grade 80 steel deck attached to structural supports spaced 6 ft. o.c. with two Tek 5 screws with 0.75 in. washers 6 in. o.c. Deck side laps secured 12 in. o.c. with Traxx/1 screws.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table

System Type D(3): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

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>
Derbiboard, ACFoam-II Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 0.5" 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.

Base Sheet: One ply Derbibase, Derbibase Ultra, Derbibase HV or Derbigum GP mechanically fastened to the deck through the insulation as detailed below.

Fastening: Base Sheet fastened to deck with Perlok XHD and Perlok Accutrak Flat Bottom Plate 6 in. o.c. at the minimum 3 in. base sheet side laps and 12 in. o.c. in two staggered rows 10 in. from each base sheet side lap. Base sheet side laps are torch adhered prior to mechanical fastening.

Ply Sheet: (Optional) One or more plies of Derbibase, Derbibase Ultra, Derbibase HV, Derbigum GP, Derbigum GP-FR, Derbigum XPS or Derbigum XPS-FR adhered to the substrate with Permastic applied at a rate of 1.5 – 2.0 gal/sq. or Derbibase SA, self-adhered.

Or

(Optional) One or more plies of Derbibase, Derbibase Ultra, Derbigum GP, Derbigum GP-FR, Derbigum XPS or Derbigum XPS-FR adhered by torching to the substrate or Derbibase SA, self-adhered.



Membrane:

One ply of Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR, Derbicolor GP, Derbicolor GP-FR, Derbigum P, Derbicolor P, Derbicolor P-FR, Derbicolor XPS, Derbicolor XPS-FR, Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold, Bitutak Cold Mineral or Derbibrute adhered with Permastic adhesive to base and/or ply sheet applied at a rate of 1.5 – 2.0 gal/sq.

Or

One ply of Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR, Derbicolor GP, Derbicolor GP-FR, Derbigum P, Derbicolor P, Derbicolor P-FR, Derbicolor XPS, Derbicolor XPS-FR, Bitutak MB Mineral, Resisto Bitutak MB Mineral, Bitutak Cold, Bitutak Cold Mineral or Derbibrute fully adhered by torching to base and/or ply sheet.

**Surfacing:
(Optional)**

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

**Maximum Design
Pressure:**

-52.5psf. (See General Limitation #7)



Membrane Type: APP

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 18 ga. Type B Grade 80 steel deck attached to structural supports spaced 6 ft. o.c. with two Teks 5 screws with 0.75 in. washers 6 in. o.c. Deck side laps secured 12 in. o.c. with Traxx/1 screws.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submittted Table

System Type D(4): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently mechanically fastened through insulation to the roof deck.

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>
Derbiboard, Derbiboard CA, ACFoam-II, ACFoam-III Minimum 2.0" thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime Minimum 0.375" 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.

Base Sheet: One ply Derbibase HV mechanically fastened to the deck through the insulation as detailed below.

Fastening: Base Sheet fastened to deck with Perlok XHD and Perlok-O Plate 12 in. o.c. at the minimum 3 in. base sheet side laps and 12 in. o.c. in two staggered rows 12 in. from each base sheet side lap. Base sheet side laps are torch adhered prior to mechanical fastening

Ply Sheet: One or two plies of Derbibase Ultra torch adhered to the substrate.

Membrane: Derbigum GP, Derbigum GP-FR, Derbigum XPS, Derbigum XPS-FR, Derbicolor GP, Derbicolor GP-FR, Derbicolor P-FR, Derbicolor XPS, Derbicolor XPS-FR or Derbibrite torch adhered to ply sheet.

**Surfacing:
(Optional)** Apply any coating listed in Table 4, or any Miami-Dade approved coating system.

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



STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, 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.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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