



**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)**

**Stevens Roofing Systems  
9 Sullivan Road  
Holyoke, MA 01040**

**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 Miami-Dade County Product Control Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Stevens TPO Single Ply Roofing System over Lightweight 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 NOA renews and revises NOA No. 01-0409.04 and consists of pages 1 through 17.  
The submitted documentation was reviewed by Jorge L. Acebo



**NOA No: 06-0207.07  
Expiration Date: 05/17/11  
Approval Date: 06/01/06  
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## ROOFING SYSTEM APPROVAL

Category: Roofing  
Sub-Category: Single Ply  
  
Material: TPO  
Deck Type: Lightweight Concrete  
Maximum Design Pressure: -427.5 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>
Stevens FB4535	76 ½" x 100' (0.045" thick)	TAS 114	Membrane laminated with a 3.5 oz/yd <sup>2</sup> spun bonded polypropylene fleece.
Stevens FB4560	76 ½" x 100' (0.045" thick)	TAS 114	Membrane laminated with a 6oz/yd <sup>2</sup> spun bonded polypropylene fleece.
Stevens FB6035	76 ½" x 100' (0.060" thick)	TAS 114	Membrane laminated with a 3.5 oz/yd <sup>2</sup> spun bonded polypropylene fleece.
Stevens FB6060	76 ½" x 100' (0.060" thick)	TAS 114	Membrane laminated with a 6 oz/yd <sup>2</sup> spun bonded polypropylene fleece.
Stevens FB636WB	5 gallons	TAS 114	Water based adhesive for fleece back membranes applied to substrate at 100ft <sup>2</sup> /gal.
Stevens EP	various	ASTM D6878	Polyester reinforced, ethylene-propylene roofing membrane
Stevens EP-XL	various	ASTM D6878	Polyester reinforced, ethylene-propylene roofing membrane
Unsupported EP	36" x 50'	ASTM D6878	Flashing for surfaces whose geometry prohibits the use of reinforced membrane.
Stevens EP Walkway Roll	36" x 50'	N/A	Walkway pad
Stevens Purlin Fastener	various	TAS 114	Fasteners for membrane attachment (min. 16 ga. purlins)
Stevens Termination Bar	10'	N/A	Extruded aluminum termination bar
FR10	48" x 250'	ASTM E108	Fiberglass Fire Barrier
FR50	48" x 108'	ASTM E108	Fiberglass Fire Barrier
Stevens Inside Corners, Outside Corners, Pipe Boots & Vent Gloves	various	N/A	Prefabricated flashing
Stevens VRS Vent	various	N/A	Spun aluminum, one-way pressure relief valve



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Stevens EP Seam Cleaner	1 gallon	N/A	Membrane cleaner
Insta-Stik Insulation Adhesive	1 or 2-1/2 gallon	N/A	Insulation Adhesive
Pliodeck Insulation Adhesive	1 or 2-1/2 gallon	N/A	Insulation Adhesive
Stevens EP Bonding Adhesive	5 gallon	N/A	Membrane adhesive applied to both substrate and roof cover at 60ft <sup>2</sup> /gal.
Stevens All-Purpose Sealant	10 oz. tube	N/A	Sealant
Stevens EP Cut Edge Sealant	32 oz.	N/A	Sealant for exposed scrim of Stevens EP membrane
Stevens Fascia	various	TAS 111	Extruded aluminum roof edge
Stevens Edge	various	TAS 111	Formed aluminum roof edge
Stevens Cap	various	TAS 111	Prefabricated metal coping system
Stevens EP Clad Metal	4'x10'	N/A	Unsupported membrane laminated to galvanized steel. For applicator forming of flashing details

**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
Stevens ISO 2000, ISO 3000 and Recover Board	Polyisocyanurate insulation	Stevens Roofing Systems
Contour Tile	Tapered expanded polystyrene insulation	AFM
Perform 1, Perform Perfect	Expanded polystyrene insulation	AFM
Perform 2	Expanded polystyrene with wood fiber topside insulation	AFM
DP Foam II, DP Foam III	Polyisocyanurate foam insulation	Dyplast Products
ACFoam II, ACFoam III, ACFoam Supreme	Polyisocyanurate foam insulation	Atlas Energy Products
Hy-Therm AP	Polyisocyanurate insulation	Dow
High Density Wood Fiberboard	Wood fiber insulation	Celotex
Certifoam	Extruded polystyrene insulation	Diversifoam
EPS	Expanded polystyrene insulation	Generic
Type "X", Gypsum board	Gypsum board	Generic



**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
Dens Deck Dens Deck Prime Overlayment Board	Water-resistant gypsum board	Georgia Pacific
Fireguard Type "X"	Gypsum board	Georgia Pacific
GreenGuard PB6, PG38, PG39, GreenGuard Insulation Board	Extruded polystyrene insulation	Pactiv Building Products
Styrofoam, Recovery Board and Recover Mate	Extruded polystyrene insulation	Dow
ISO 95+GL	Polyisocyanurate insulation	Firestone Building Products
Fiberglas	Glass fiber insulation	Johns Manville
Ultragard Gold	Polyisocyanurate foam insulation	Johns Manville
ENRGY 3, ENRGY 3 Plus	Polyisocyanurate insulation	Johns Manville
Fesco-Foam	Polyisocyanurate/perlite insulation	Johns Manville
Fesco	Mineral fiber board (perlite)	Johns Manville
Sealskin	Mineral fiber board (perlite)	International Permalite
Structodek	High density fiberboard	Knight-Celotex
Multi-Max, Multi-Max FA, Thermarroof Plus	Polyisocyanurate insulation	R-Max Inc.
Toprox	Mineral wool insulation	Roxul
Fiberbase HD	High density fiberboard	Temple-Inland
Foamular and Durapink	Extruded polystyrene insulation	Owens Corning

**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
1.	Stevens Masonry Anchor	Zinc alloy and stainless steel (termination bar attachment only)	various	Stevens Roofing Systems
2.	Stevens N.T.B. Fasteners	Fasteners for insulation and membrane fastening	various	Stevens Roofing Systems
3.	Insulation Plates	Insulation Stress Plate	3" dia.	Olympic
4.	NTB Magnum	Fastener for use in cementitious wood fiber and gypsum decks	Various	Olympic



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**EVIDENCE SUBMITTED:**

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Factory Mutual Research Corporation	J.I. 0X2A6.AM	Standard 4470	06/07/93
	J.I. 2X6A9.AM	Standard 4470	12/13/93
	J.I. 2W2A9.AM	Standard 4470	11/30/93
	J.I. 2X7AO.AM	Standard 4470	01/31/94
	J.I. 1X5A2.AM	Standard 4470	06/24/94
	J.I. 1Z8A7.AM	Standard 4470	06/10/96
	J.I. 3Z8A9.AM	Standard 4470	02/19/96
	J.I. 0D2A9.AM	Standard 4470	09/06/97
	3000644	Standard 4470	12/31/98
	3003970	Standard 4470	05/12/00
	3008050	Standard 4470	12/15/00
	3008869	Standard 4470	03/19/01
	3013654	Standard 4470	01/28/03
	3014692	Standard 4470	08/05/03
	3015444	Standard 4450	07/11/03
Inchcape Testing Services Inc.	484-830500	Physical Property Testing	05/31/93
Underwriters Laboratories, Inc.	File R10321	Fire Classification	Published Annually
	93 NK27934	Wind Uplift Testing	11/12/93
	93 NK17378	Physical Property Testing	08/10/93
	92 NK1400	Physical Property Testing	09/24/93
	94 NK 13394	Physical Property Testing	07/20/94



**APPROVED ASSEMBLIES:**

- Membrane Type:** Single Ply, Thermoplastic
- Deck Type 3I:** Lightweight Concrete, Insulated
- Deck Description:** Min. 200 psi lightweight insulating concrete
- System Type A(1):** One or more layers of insulation adhered with approved adhesive, membrane fully adhered.

**All General and System Limitations apply.**

<u>Base Insulation Layer</u>	<u>Fastener Density/ft<sup>2</sup></u>	<u>Fastener Type</u>
(Optional) ACFoam II, H-Shield, ENRGY 3, ISO 95+GL, Stevens ISO 2000 Minimum 1.0" thick	N/A	N/A
(Optional) DensDeck, DensDeck Prime Minimum 0.25" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Fastener Density/ft<sup>2</sup></u>	<u>Fastener Type</u>
DensDeck, DensDeck Prime Minimum 0.25" thick	N/A	N/A

**Note: All insulation shall be adhered to the deck in full coating of OlyBond Adhesive Fastener at a rate of 1 gal/sq. 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.**

- Membrane:** Stevens EP, Stevens EP-XL with minimum 2" side laps adhered to the insulation with Stevens EP Bonding Adhesive. Stevens FB4535, FB4560, or FB6035, FB6060 membranes with minimum 1.5" side and end laps adhered to insulation with Stevens FB636WB bonding adhesive.
- Maximum Design Pressure:** -135.0 psf (See General Limitation #9)



**Membrane Type:** Single Ply, Thermoplastic  
**Deck Type 4I:** Lightweight Concrete, Insulated  
**Deck Description:** Min. 200 psi  
**System Type A(2):** One or more layers of insulation adhered with approved adhesive, membrane fully adhered

**All General and System Limitations apply.**

<u>Insulation Layer</u>	<u>Fastener Density/ft<sup>2</sup></u>	<u>Fastener Type</u>
ACFoam II, H-Shield, ISO 95+GL, Stevens ISO 2000 Minimum 1.5" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 0.25" thick	N/A	N/A

**Note:** All insulation shall be adhered to the deck in ¾" – 1" wide beads 12" o.c. of OlyBond 500 or Spot Shot Adhesive Fastener. 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.

**Vapor Barrier:** (Optional) Any FM or UL approved asphaltic vapor barrier.  
**Membrane:** Stevens EP, Stevens EP-XL with minimum 2" side laps adhered to the insulation with Stevens EP Bonding Adhesive. Stevens FB4535, FB4560, or FB6035, FB6060 membranes with minimum 1.5" side and end laps adhered to insulation with Stevens FB636WB bonding adhesive.  
**Maximum Design Pressure:** -135.0 psf (See General Limitation #9)  
-120.0 psf (with asphaltic vapor barrier) (See General Limitation #9)



**Membrane Type:** Single Ply, Thermoplastic  
**Deck Type 4I:** Lightweight Concrete, Insulated  
**Deck Description:** Min. 200 psi  
**System Type A(3):** One or more layers of insulation adhered with approved adhesive, membrane fully adhered

**All General and System Limitations apply.**

<u>Insulation Layer</u>	<u>Fastener Density/ft<sup>2</sup></u>	<u>Fastener Type</u>
ACFoam II, H-Shield, ENRGY 3, ISO 95+GL, Stevens ISO 2000 Minimum 1.0" thick or tapered	N/A	N/A

**Note: All insulation shall be adhered to the deck in ¾" – 1" wide beads 12" o.c. of OlyBond 500 or Spot Shot Adhesive Fastener. 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.**

**Membrane:** Stevens EP, Stevens EP-XL with minimum 2" side laps adhered to the insulation with Stevens EP Bonding Adhesive. Stevens FB4535, FB4560, or FB6035, FB6060 membranes with minimum 1.5" side and end laps adhered to insulation with Stevens FB636WB bonding adhesive.

**Maximum Design Pressure:** -90.0 psf (See General Limitation #9)



**Membrane Type:** Single Ply, Thermoplastic  
**Deck Type 4I:** Lightweight Concrete, Insulated  
**Deck Description:** Elastizell Range II  
**System Type A(4):** One or more layers of insulation adhered with approved adhesive, membrane fully adhered

**All General and System Limitations apply.**

One or more layers of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam II, ENRGY3, ISO 95+GL, Stevens ISO 2000 Minimum 1.5" thick	N/A	N/A

**Note: All insulation shall be adhered to the deck in 0.5" wide ribbons spaced 12" o.c. of Pliodeck Insulation Adhesive. Subsequent layers of insulation must have ribbons applied perpendicular to preceding layers. 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.**

**Membrane:** Stevens EP, Stevens EP-XL with minimum 2" side laps adhered to the insulation with Stevens EP Bonding Adhesive. Stevens FB4535, FB4560, or FB6035, FB6060 membranes with minimum 1.5" side and end laps adhered to insulation with Stevens FB636WB bonding adhesive.

**Maximum Design Pressure:** -135.0 psf (See General Limitation #9)

**System is also limited to Maximum Design Pressure of LWIC deck; refer to current NOA for Elastizell Range II Lightweight Concrete deck limitations.**



**Membrane Type:** Single Ply, Thermoplastic  
**Deck Type 4I:** Lightweight Concrete, Insulated  
**Deck Description:** Elastizell Range II  
**System Type A(5):** One or more layers of insulation adhered with approved adhesive, membrane fully adhered

**All General and System Limitations apply.**

One or more layers of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft<sup>2</sup></u>
ACFoam II, ENRGY3, HY-Therm AP, ISO 95+GL, Multi-Max FA, Stevens ISO 2000 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/ft<sup>2</sup></u>
DensDeck, DensDeck Prime Minimum 0.25" thick	N/A	N/A

**Note: All insulation shall be adhered to the deck in 0.5" wide ribbons spaced 6" o.c. of Pliodeck Insulation Adhesive. Subsequent layers of insulation must have ribbons applied perpendicular to preceding layers. 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.**

**Membrane:** Stevens EP, Stevens EP-XL with minimum 2" side laps adhered to the insulation with Stevens EP Bonding Adhesive or Stevens FB4535, FB4560, or FB6035, FB6060 membranes with minimum 1.5" side and end laps adhered to insulation with Stevens FB636WB bonding adhesive.

**Maximum Design Pressure:** -135.0 psf (See General Limitation #9)

**System is also limited to Maximum Design Pressure of LWIC deck; refer to current NOA for Elastizell Range II Lightweight Concrete deck limitations.**



**Membrane Type:** Single Ply, Thermoplastic  
**Deck Type 4I:** Lightweight Concrete, Insulated  
**Deck Description:** Elastizell Range II  
**System Type A(6):** One or more layers of insulation adhered with approved adhesive, membrane fully adhered

**All General and System Limitations apply.**

One or more layers of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ASTM C578 Type IX EPS (min 1.8 pcf density) Minimum 1.0" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck, DensDeck Prime Minimum 0.25" thick	N/A	N/A

**Note: All insulation shall be adhered to the deck in 0.5" wide ribbons spaced 6" o.c. of Pliodeck Insulation Adhesive. Subsequent layers of insulation must have ribbons applied perpendicular to preceding layers. 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.**

**Membrane:** Stevens EP, Stevens EP-XL with minimum 2" side laps adhered to the insulation with Stevens EP Bonding Adhesive. Stevens FB4535, FB4560, or FB6035, FB6060 membranes with minimum 1.5" side and end laps adhered to insulation with Stevens FB636WB bonding adhesive.

**Maximum Design Pressure:** -135.0 psf (See General Limitation #9)

**System is also limited to Maximum Design Pressure of LWIC deck; refer to current NOA for Elastizell Range II Lightweight Concrete deck limitations.**



**Membrane Type:** Single Ply, Thermoplastic  
**Deck Type 4I:** Lightweight Concrete, Insulated  
**Deck Description:** Elastizell Range II  
**System Type A(7):** One or more layers of insulation adhered with approved adhesive, membrane fully adhered

**All General and System Limitations apply.**

One or more layers of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft<sup>2</sup></u>
<b>DECKMATE Plus, FOAMULAR DURAPINK</b> 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/ft<sup>2</sup></u>
<b>DensDeck, DensDeck Prime</b> Minimum 0.25" thick	N/A	N/A

**Note: All insulation shall be adhered to the deck in 0.5" wide ribbons spaced 12" o.c. or 6" o.c. of Pliodeck Insulation Adhesive. Subsequent layers of insulation must have ribbons applied perpendicular to preceding layers. 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.**

**Membrane:** Stevens EP, Stevens EP-XL with minimum 2" side laps adhered to the insulation with Stevens EP Bonding Adhesive or Stevens FB4535, FB4560, or FB6035, FB6060 membranes with minimum 1.5" side and end laps adhered to insulation with Stevens FB636WB bonding adhesive.

**Maximum Design Pressure:** -90.0 psf (Pliodeck at 12" o.c.) (See General Limitation #9)  
-135.0 psf (Pliodeck at 6" o.c.) (See General Limitation #9)

**System is also limited to Maximum Design Pressure of LWIC deck; refer to current NOA for Elastizell Range II Lightweight Concrete deck limitations.**



**Membrane Type:** Single Ply, Thermoplastic  
**Deck Type 4:** Lightweight Concrete, Non-insulated  
**Deck Description:** Celcore Lightweight Insulating Concrete over structural concrete.  
(See System Limitation #1.)  
**System Type F(1):** Membrane fully adhered to deck.

**All General and System Limitations apply.**

**Deck:** Structural Concrete primed with hot asphalt at rate of 25lbs/sq.  
**Lightweight Concrete:** Minimum 200 psi cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an optional minimum 1" thick Holey Board and a minimum 2" thick top coat. (See System Limitation #1.)  
**Treatment:** Polyvinyl Alcohol (PVA) applied to the deck top surface when walkable.  
**Membrane:** Stevens EP, Stevens EP-XL with minimum 2" side laps adhered with Stevens EP Bonding Adhesive. Stevens FB4535, FB4560 or FB6035, FB6060 membranes with minimum 1.5" side and end laps adhered with Stevens FB636WB bonding adhesive.  
**Maximum Design Pressure:** -135 psf (See General Limitation #9.)



**Membrane Type:** Single Ply, Thermoplastic  
**Deck Type 4:** Lightweight Concrete, Non-insulated  
**Deck Description:** Miami-Dade Approved Cellular Lightweight Concrete over steel decking  
(See System Limitation #1)  
**System Type F(2):** Membrane fully adhered to deck.

**All General and System Limitations apply.**

**Deck:** Minimum 22 ga., type B steel decking  
**Lightweight Concrete:** Minimum 200 psi cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an optional minimum 1" thick Holey Board and a minimum 2" thick top coat.  
**Treatment:** Polyvinyl Alcohol (PVA) applied to the deck top surface when walkable.  
**Membrane:** Stevens EP, Stevens EP-XL with minimum 2" side laps adhered with Stevens EP Bonding Adhesive or Stevens FB4535, FB4560, or FB6035, FB6060 membranes with minimum 1.5" side and end laps adhered with Stevens FB636WB bonding adhesive.  
**Maximum Design Pressure:** -45 psf (See General Limitation #9.)



**Membrane Type:** Single Ply, Thermoplastic  
**Deck Type 4:** Lightweight Concrete, Non-insulated  
**Deck Description:** Concrecel Lightweight Concrete over structural concrete  
**System Type F(3):** Membrane fully adhered to deck.

**All General and System Limitations apply.**

**Deck:** Structural Concrete

**Lightweight Concrete:** Minimum 300 psi cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an optional minimum 1" thick Holey Board and a minimum 2" thick top coat. (See System Limitation #1.)

**Treatment:** Polyvinyl Alcohol (PVA) applied to the deck top surface when walkable.

**Membrane:** Stevens EP, Stevens EP-XL with minimum 2" side laps adhered with Stevens EP Bonding Adhesive. Stevens FB4535, FB4560, FB6035 or FB6060 membranes with minimum 1.5" side and end laps adhered with Stevens FB636WB bonding adhesive.

**Maximum Design Pressure:** -157.5 psf (See General Limitation #9.) Using Stevens EP, Stevens EP-XL Membrane  
-427.5 psf (See General Limitation #9.) Using Stevens FB4535, FB4560, FB6035 or FB6060



**Membrane Type:** Single Ply, Thermoplastic  
**Deck Type 4:** Lightweight Concrete, Non-insulated  
**Deck Description:** Concrecel Lightweight Concrete over steel deck  
**System Type F(4):** Membrane fully adhered to deck.

**All General and System Limitations apply.**

**Deck:** Minimum 22 ga., type B steel decking  
**Lightweight Concrete:** Minimum 300 psi cellular lightweight concrete deck applied with a minimum 1/8" slurry coat followed by an optional minimum 1" thick Holey Board and a minimum 2" thick top coat.  
**Treatment:** Polyvinyl Alcohol (PVA) applied to the deck top surface when walkable.  
**Membrane:** Stevens EP, Stevens EP-XL with minimum 2" side laps adhered with Stevens EP Bonding Adhesive. Stevens FB4535, FB4560 or FB6035, FB6060 membranes with minimum 1.5" side and end laps adhered with Stevens FB636WB bonding adhesive.  
**Maximum Design Pressure:** -60 psf (See General Limitation #9.)



## LIGHTWEIGHT INSULATING CONCRETE 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 137, 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 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.)**

**END OF THIS ACCEPTANCE**



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