MIAMI-DADE

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 Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Florida Building Code and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Stevens PVC Single Ply Roofing System 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 NOA revises NOA No.03-1210.01 and consists of pages 1 through 7.
The submitted documentation was reviewed by Jorge L. Acebo.

MIAMI-DADE COUNTY APPROVED

NOA No.: 07-1219.02
Expiration Date: 03/18/09
Approval Date: 03/20/08

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	PVC
Deck Type:	Concrete
Maximum Design Pressure	-97.5 psf
Fire Classification:	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
Stevens EV	various	ASTM D 4434	Polyester reinforced, PVC/Elvaloy roofing membrane
Stevens EP Walkway Roll	30" x 30"	N/A	Walkway pad
Supreme Slip Sheet	52" x 2500'	ASTM E108	Fiberglas fire barrier
Stevens Inside Corners	various	N/A	Prefabricated flashing
Stevens Outside Corners	various	N/A	Prefabricated flashing
Stevens Pipe Boots	various	N/A	Prefabricated flashing
Stevens Vent Gloves	various	N/A	Prefabricated flashing
Stevens VRS Vent	various	N/A	Spun aluminum, one-way pressure relief valve

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Stevens ISO 2000, ISO 3000	Polyisocyanurate roof insulation.	Stevens Roofing System
Stevens Recover Board	Polyisocyanurate insulation.	Stevens Roofing System
Pyrox	Isocyanurate Insulation	Apache Products Co.
ACFoam Composite	Isocyanurate Insulation with perlite facer	Atlas Roofing Corp.
ACFoam II, ACFoam III, ACFoam Supreme	Isocyanurate Insulation	Atlas Roofing Corp.
ISO 95+ GL, 95+ GW	Polyisocyanurate foam insulation	Firestone
Dens Deck	Silicon treated gypsum	G-P Products
Sturdi-Top	Wood fiber insulation board.	G-P Products

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ENRGY 2, ENERGY 3, PSI-25	Isocyanurate Insulation	Johns Manville
Fesco Foam	Isocyanurate Insulation with perlite facer	Johns Manville
High Density Wood Fiberboard	High Density Wood Fiber insulation board.	Generic
Perlite Insulation Board	Perlite Insulation	Generic
Type X Gypsum	Gypsum Wallboard	Generic
Multi-Max, FA	Polyisocyanurate foam insulation	Rmax, Inc.
Fiber Base HD	Asphalt coated wood fiber insulation	Temple Inland Forest Products Corp.
Structodeck	High Density Wood Fiber insulation board.	Wood Fiber Industries

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Stevens DeckGrip Fastener	Fasteners for insulation and membrane attachment (concrete, steel or wood decks)		Stevens Roofing System
2.	Stevens DeckGrip Metal Plates	Metal plate	2-5/8" dia.	Stevens Roofing System
3.	Stevens MaxFast Fastener	Fasteners for insulation and membrane attachment (concrete, steel or wood decks)		Stevens Roofing System
4.	Stevens MaxFast Metal Plates	Metal plate	3" dia.	Stevens Roofing System

EVIDENCE SUBMITTED

Test Agency	Test Identifier	Test Name/Report	Date
Factory Mutual Corp.	3013652	Standard 4470	01/23/03

APPROVED ASSEMBLIES

Membrane Type: Single Ply, PVC

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type D: Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Multi-Max, Multi-Max FA, ISO 95+, ENRGY 2, PSI-25, ACFoam II, ACFoam III, Stevens ISO 2000, ISO 3000, Pyrox		
Minimum 1.5" thick	**N/A**	**N/A**
High Density Wood Fiberboard, Structodeck, Fiber Base HD1, Fiber Base HD6		
Minimum ½" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, 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. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: (Optional) Stevens Slip sheet 15 mil minimum, Fireguard Type "X", Dens-Deck, or Gypsum board, minimum thickness ½", Overlayment board; secured with insulation and membrane assembly. Barrier may be installed on the deck or between insulation layers. See Approved Roofing Materials Directory for specific placement of fire barrier.

Membrane:	Stevens EV mechanically fastened through the insulation as specified below:
Fastening #1:	Install maximum 76½" wide sheets with a 5½" overlap fastened 12" o.c. using Stevens DeckGrip Fasteners and 2-5/8" Plates. The roof cover outer 1-½" side lap is heat welded. ***(Maximum Design Pressure: -45 psf - see General Limitation #7)***
Fastening #2:	Install maximum 76½" wide sheets with a 5½" overlap fastened 6" o.c. using Stevens DeckGrip Fasteners and 2-5/8" Plates. The roof cover outer 1-½" side lap is heat welded. ***(Maximum Design Pressure –67.5 psf; See General Limitation #7)***
Fastening #3:	Install maximum 76½" wide sheets with a 5½" overlap fastened 6" o.c. using Stevens MaxFast Fasteners and 3" Plates. The roof cover outer 1-½" side lap is heat welded. ***(Maximum Design Pressure –75 psf; See General Limitation #7)***
Fastening #4:	Install maximum 64½" wide sheets with a 5½" wide overlap fastened 6" o.c. using Stevens DeckGrip Fasteners and 2-5/8" Plates. The roof cover outer 1-½" side lap is heat welded. ***(Maximum Design Pressure: -75 psf - see General Limitation #7)***
Fastening #5:	Install maximum 52½" wide sheets with a 5½" wide overlap fastened 12" o.c. using Stevens DeckGrip Fasteners and 2-5/8" Plates. The roof cover outer 1-½" side lap is heat welded. ***(Maximum Design Pressure: -60 psf - see General Limitation #7)***
Fastening #6:	Install maximum 52½" wide sheets with a 5½" wide overlap fastened 6" o.c. using Stevens DeckGrip Fasteners and 2-5/8" Plates. The roof cover outer 1-½" side lap is heat welded. ***(Maximum Design Pressure:-97.5 psf - see General Limitation #7)***
Maximum Design Pressure:	See Fastening Options Above

Membrane Type: Single Ply, PVC

Deck Type 3: Concrete, Non-Insulated

Deck Description: 2500 psi or greater structural concrete or concrete plank

System Type E: Membrane mechanically attached to deck.

All General and System Limitations shall apply.

Barrier: (Optional) Stevens Slip sheet 15 mil minimum, Fireguard Type "X", Dens-Deck, or Gypsum board, minimum thickness ½", Overlayment board loose laid. See Approved Roofing Materials Directory for specific placement of fire barrier.

Membrane: Stevens EV mechanically fastened through the insulation as specified below:

Fastening #1: Install maximum 76½" wide sheets with a 5½" overlap fastened 12" o.c. using Stevens DeckGrip Fasteners and 2-5/8" Plates. The roof cover outer 1-½" side lap is heat welded. ***(Maximum Design Pressure: -45 psf - see General Limitation #7)***

Fastening #2: Install maximum 76½" wide sheets with a 5½" overlap fastened 6" o.c. using Stevens DeckGrip Fasteners and 2-5/8" Plates. The roof cover outer 1-½" side lap is heat welded. ***(Maximum Design Pressure –67.5 psf; See General Limitation #7)***

Fastening #3: Install maximum 76½" wide sheets with a 5½" overlap fastened 6" o.c. using Stevens MaxFast Fasteners and 3" Plates. The roof cover outer 1-½" side lap is heat welded. ***(Maximum Design Pressure –75 psf; See General Limitation #7)***

Fastening #4: Install maximum 64½" wide sheets with a 5½" wide overlap fastened 6" o.c. using Stevens DeckGrip Fasteners and 2-5/8" Plates. The roof cover outer 1-½" side lap is heat welded.
(Maximum Design Pressure: -75 psf - see General Limitation #7)

Fastening #5: Install maximum 52½" wide sheets with a 5½" wide overlap fastened 12" o.c. using Stevens DeckGrip Fasteners and 2-5/8" Plates. The roof cover outer 1-½" side lap is heat welded.
(Maximum Design Pressure: -60 psf - see General Limitation #7)

Fastening #6: Install maximum 52½" wide sheets with a 5½" wide overlap fastened 6" o.c. using Stevens DeckGrip Fasteners and 2-5/8" Plates. The roof cover outer 1-½" side lap is heat welded.
(Maximum Design Pressure:-97.5 psf - see General Limitation #7)

Maximum Design Pressure: See Fastening Options Above.

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 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.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

END OF THIS ACCEPTANCE