



**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)

**Dow Roofing Systems LLC
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: Dow PVC Single Ply Roofing System over Recover 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 and renews NOA No.07-1219.03 and consists of pages 1 through 10.
The submitted documentation was reviewed by Alex Tigera.



**NOA No.: 09-0225.05
Expiration Date: 03/18/14
Approval Date: 04/29/09
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ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply
Material: PVC
Deck Type: Recover
Maximum Design Pressure -97.5 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 EV Dow PVC	various	ASTM D 4434	Polyester reinforced, PVC/Elvaloy roofing membrane
Stevens PVC Bonding Adhesive Dow PVC Bonding Adhesive	5 gallon	N/A	Membrane adhesive applied to both substrate and roof cover at 60ft ² /gal.
Stevens PVC Cut Edge Sealant Dow PVC Cut Edge Sealant	32 oz.	N/A	Sealant for exposed scrim of Dow PVC membrane.
Stevens EP Walkway Roll Dow TPO Walkway Roll	30" x 30"	N/A	Walkway pad
Supreme Slip Sheet	52" x 2500'	ASTM E108	Fiberglas fire barrier
Stevens Inside Corners Dow Inside Corners	various	N/A	Prefabricated flashing
Stevens Outside Corners Dow Outside Corners	various	N/A	Prefabricated flashing
Stevens Pipe Boots Dow Pipe Boots	various	N/A	Prefabricated flashing
Stevens Vent Gloves Dow Vent Gloves	various	N/A	Prefabricated flashing



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Stevens VRS Vent Dow 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 Dow ISO 2000, ISO 3000	Polyisocyanurate roof insulation.	Dow Roofing System, LLC
Stevens Recover Board Dow Recover Board	Polyisocyanurate insulation.	Dow Roofing System, LLC
Pyrox	Isocyanurate Insulation	Apache Products Co.
ACFoam Composite	Isocyanurate Insulation with perlite facer	Atlas Roofing Corp.
ACFoam II, ACFoam III, ACFoam Supreme	Polyisocyanurate foam insulation	Atlas Roofing Corp.
ISO 95+ GL, 95+ GW	Polyisocyanurate foam insulation	Firestone
Hy-Therm	Polyisocyanurate foam insulation	Dow Chemical Company
GAFTEMP	Wood Fiber insulation board	GAF Materials Corp
Dens Deck, Dens Deck Prime	Silicon treated gypsum	G-P Products
Sturdi-Top	Wood fiber insulation board.	G-P Products
ENERGY 3, ENERGY 3 Plus, 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, 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 Dow Deckgrip Fastener	Fasteners for insulation and membrane attachment (concrete, steel or wood decks)		Dow Roofing Systems, LLC
2.	Stevens DeckGrip Metal Plates Dow DeckGrip Metal Plates	Metal plate	2-5/8" dia.	Dow Roofing Systems, LLC
3.	Stevens XHD Fastener Dow XHD Fastener	Fastener for insulation and membrane attachment	Various	Dow Roofing Systems, LLC
4.	Stevens XHD Plate Dow XHD Plate	Metal Plate	2-3/8"	Dow Roofing Systems, LLC
5.	Stevens MaxFast Fastener Dow MaxFast Fastener	Fasteners for insulation and membrane attachment (concrete, steel or wood decks)		Dow Roofing Systems, LLC
6.	Stevens MaxFast Metal Plates Dow MaxFast Metal Plates	Metal plate	3" dia.	Dow Roofing Systems, LLC
7.	Dow PIF Fasteners	Insulation fastening assembly	Various	Dow Roofing Systems, LLC
8.	Dow #12 & #14 All-Purpose Fastener	Fasteners for insulation and membrane attachment	Various	Dow Roofing Systems, LLC
9.	Dow Metal or Plastic Insulation Plates	Metal or Plastic insulation plate	2-7/8" or 3" diameter	Dow Roofing Systems, LLC
10.	Dow CD-10	Fastener for membrane and insulation attachment	Various	Dow Roofing Systems, LLC



EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Factory Mutual Corp.	3013652	Standard 4470	01/23/03
Factory Mutual Corp.	3009092	Standard 4470	12/13/00
Factory Mutual Corp.	3015471	Standard 4470	12/03/02
Factory Mutual Corp.	3027525	Standard 4470	08/17/06



APPROVED ASSEMBLIES

Membrane Type: Single Ply, PVC

Deck Type 7I: Recover, Insulated

Deck Description: steel/concrete

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

All General and System Limitations apply.

<u>Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
Multi-Max, Multi-Max FA, ISO 95+GL, ENRGY 3, ENRGY 3 Plus, H-Shield C, PSI-25, ACFoam II, ACFoam III, Stevens ISO 2000, ISO 3000, Dow ISO 2000, ISO 3000, Pyrox Minimum 1.5" thick	N/A	N/A
High Density Wood Fiberboard, Structodeck, Fiber Base HD1, Fiber Base HD6, Dens Deck, Dens Deck Prime Minimum 1/2" 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, Dow Slip sheet 15 mil minimum, Fireguard Type "X", Dens-Deck, Dens Deck Prime, or Gypsum board, minimum thickness 1/2", 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, Dow PVC 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, Dow DeckGrip Fasteners and 2-3/8" Plates., Dow XHD Fasteners and XHD 2-3/8" plates, Dow #14 All Purpose Fastener with 2-3/8" plates or Dow CD-10 Concrete Fastener with 2-3/8" Plate. 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, Dow DeckGrip Fasteners and 2-3/8" Plates., Dow XHD Fasteners and XHD 2-3/8" plates, Dow #14 All Purpose Fastener with 2-3/8" plates or Dow CD-10 Concrete Fastener with 2-3/8" Plate. . 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 -82.5 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, Dow DeckGrip Fasteners and 2-3/8" Plates., Dow XHD Fasteners and XHD 2-3/8" plates, Dow #14 All Purpose Fastener with 2-3/8" plates or Dow CD-10 Concrete Fastener with 2-3/8" Plate. 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, Dow DeckGrip Fasteners and 2-3/8" Plates., Dow XHD Fasteners and XHD 2-3/8" plates, Dow #14 All Purpose Fastener with 2-3/8" plates or Dow CD-10 Concrete Fastener with 2-3/8" Plate. 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, Dow DeckGrip Fasteners and 2-3/8" Plates., Dow XHD Fasteners and XHD 2-3/8" plates, Dow #14 All Purpose Fastener with 2-3/8" plates or Dow CD-10 Concrete Fastener with 2-3/8" Plate. 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 7: Recover, Non-Insulated.
Deck Description: steel/concrete
System Type E: Membrane mechanically attached to deck.

All General and System Limitations shall apply.

Barrier: (Optional) Stevens Slip sheet, Dow Slip sheet 15 mil minimum, Fireguard Type "X", Dens-Deck, Dens-Deck Prime 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, Dow DeckGrip Fasteners and 2-3/8" Plates., Dow XHD Fasteners and XHD 2-3/8" plates, Dow #14 All Purpose Fastener with 2-3/8" plates or Dow CD-10 Concrete Fastener with 2-3/8" Plate. 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, Dow DeckGrip Fasteners and 2-3/8" Plates., Dow XHD Fasteners and XHD 2-3/8" plates, Dow #14 All Purpose Fastener with 2-3/8" plates or Dow CD-10 Concrete Fastener with 2-3/8" Plate. 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 -82.5 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, Dow DeckGrip Fasteners and 2-3/8" Plates., Dow XHD Fasteners and XHD 2-3/8" plates, Dow #14 All Purpose Fastener with 2-3/8" plates or Dow CD-10 Concrete Fastener with 2-3/8" Plate. 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, Dow DeckGrip Fasteners and 2-3/8" Plates., Dow XHD Fasteners and XHD 2-3/8" plates, Dow #14 All Purpose Fastener with 2-3/8" plates or Dow CD-10 Concrete Fastener with 2-3/8" Plate. 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, Dow DeckGrip Fasteners and 2-3/8" Plates., Dow XHD Fasteners and XHD 2-3/8" plates, Dow #14 All Purpose Fastener with 2-3/8" plates or Dow CD-10 Concrete Fastener with 2-3/8" Plate. 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.



RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

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 and/or RAS 137. 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



NOA No.: 09-0225.05
Expiration Date: 03/18/14
Approval Date: 04/29/09
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