



**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.  
 Nine 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 including the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Dow TPO Single Ply Roofing System over Wood Deck**

**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 consists of pages 1 through 7.

The submitted documentation was reviewed by Alex Tigera.



**NOA No 10-0427.03  
 Expiration Date: 12/02/15  
 Approval Date: 12/02/10  
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## ROOFING SYSTEM APPROVAL

<b><u>Category:</u></b>	Roofing
<b><u>Sub-Category:</u></b>	Single Ply
<b><u>Material:</u></b>	TPO
<b><u>Deck Type:</u></b>	Wood
<b><u>Maximum Design Pressure</u></b>	-67.5psf

### 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>
DOW TIEMPO+ 2000 TPO 045	45 mils thick	ASTM D 6878	Polyester reinforced Thermoplastic Olefin single ply membrane.
DOW TIEMPO+ 2000 TPO 060	60 mils thick	ASTM D 6878	Polyester reinforced Thermoplastic Olefin single ply membrane.
DOW TIEMPO+ 2000 TPO 080	80 mils thick	ASTM D 6878	Polyester reinforced Thermoplastic Olefin single ply membrane.
Dow 2000 Membrane Adhesive (Solvent Based)	5 gal.		Membrane adhesive applied to both substrate and roof cover for a bonded coverage rate of 60 ft <sup>2</sup> /gal.
Dow 2000 Membrane Adhesive (Low VOC)	5 gal.		A low-VOC membrane adhesive applied to both substrate and roof cover for a bonded coverage rate of 60 ft <sup>2</sup> /gal.

### APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
Dow TERMICO Polyisocyanurate Insulation, PSI-25, ValuTherm, JM ISO 3	Polyisocyanurate insulation	Dow Roofing Systems, LLC.
Dow TERMICO Polyisocyanurate Insulation Plus	Isocyanurate Insulation with wood fiberboard facer	Dow Roofing Systems, LLC.
Dens Deck, Dens Deck Prime	Silicone treated gypsum	Georgia Pacific
Securock, Securock Glass Mat Roof Board	Fiber reinforced coverboard	United States Gypsum Corp.
EPS or XPS Insulation	Expanded or Extruded Polystyrene	Generic



**APPROVED FASTENERS:**

**TABLE 3**

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Dow 2000 Fasteners #15	Membrane fastener	Various	Dow Roofing Systems, LLC.
2.	Dow 2000 Metal Seam Plates 2-3/8"	Seam Plate	Various	Dow Roofing Systems, LLC.

**EVIDENCE SUBMITTED:**

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Momentum Technologies	RX10A8A	Physical Properties	08/15/08
	RX14C8A	Physical Properties	09/15/05
	RX10A8B	Physical Properties	09/23/08
Trinity ERD	32200.04.10	TAS 114	04/05/10
Underwriters Laboratories, Inc.	02NK47751	Fire Classification	10/10/03
	04NK04226	Fire Classification	11/12/04
	07NK09830	Fire Classification	04/18/08
	09CA42912	Fire Classification	01/25/10



**APPROVED ASSEMBLIES:**

- Membrane Type:** Single Ply, Thermoplastic, TPO
- Deck Type II:** Wood, Insulated
- Deck Description:** 1<sup>9</sup>/<sub>32</sub>" or greater plywood or wood plank
- System Type D(1):** Membrane attached over preliminary fastened insulation.

The following assembly is approved to a maximum design pressure listed with specific fastening patterns. No substitutions shall be made. All General and System Limitations apply.

All General and System Limitations apply.

<u>Insulation for Base Layer</u>	<u>Fastener Type</u>	<u>Fastener Density/ft<sup>2</sup></u>
<b>DOW TERMICO POLYISOCYANURATE INSULATION, DOW TERMICO POLYISOCYANURATE PSI-25 INSULATION, JM ISO 3 or ValuTherm</b> Minimum 1" thick	N/A	N/A
<b>Dens Deck, Dens Deck Prime, or Securock, Securock Glass Mat Roof Board</b> Minimum 1/4" thick	N/A	N/A
<b>Expanded Polystyrene, Extruded Polystyrene</b> Minimum 3/8" thick	N/A	N/A

<u>Insulation for Top Layer (Optional)</u>	<u>Fastener Type</u>	<u>Fastener Density/ft<sup>2</sup></u>
<b>DensDeck, Dens Deck Prime, Securock, Securock Glass Mat Roof Board, Securock</b> Minimum 1/4" thick	N/A	N/A
<b>DOW TERMICO POLYISOCYANURATE INSULATION, DOW TERMICO POLYISOCYANURATE PSI-25 INSULATION, JM ISO 3 or ValuTherm</b> Minimum 1" thick	N/A	N/A

**Note:** All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum 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.

- Vapor (or Air) Retarder:** (Optional) If used they may be placed between the deck and the base layer of insulation or between the base and top layers of insulation.
- Barrier:** (Optional) Slip Sheet (15 mil minimum), Fireguard Type "X", Dens Deck, Dens Deck Prime, Securock, or Securock Glass-Mat Roof Board (minimum thickness 1/4") or Gypsum Board (minimum thickness 1/2"), Overlayment board, with all joints staggered; 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:** DOW TIEMPO+ 2000 TPO mechanically fastened to the deck through the insulation as described below.
- Fastening #1:** Install maximum 96" wide sheets with a 6" overlap fastened 6" o.c. using Dow 2000 Fasteners #15 fasteners and Dow 2000 Metal Seam Plates 2 3/8".  
*Maximum Design Pressure -60.0 psf. (See General Limitations # 7)*
- Fastening # 2:** Install maximum 60" wide sheets with a 6" overlap fastened 6" o.c. using Dow 2000 Fasteners #15 fasteners and Dow 2000 Metal Seam Plates 2-3/8".  
*Maximum Design Pressure – 67.5 psf. (See General Limitations # 7)*
- Maximum Design Pressures:** See Fastening Pattern.



**Membrane Type:** Single Ply, Thermoplastic, TPO  
**Deck Type 1:** Wood, Non-Insulated  
**Deck Description:** <sup>19</sup>/<sub>32</sub>" or greater plywood or wood plank  
**System Type E(1):** Membrane attached.

**The following assembly is approved to a maximum design pressure listed with specific fastening patterns. No substitutions shall be made. All General and System Limitations apply.**

**All General and System Limitations apply.**

**Barrier:** (Optional) Slip Sheet (15 mil minimum), Fireguard Type "X", Dens Deck, Dens Deck Prime, Securock, or Securock Glass-Mat Roof Board (minimum thickness <sup>1</sup>/<sub>4</sub>" or Gypsum Board (minimum thickness).

**Membrane:** DOW TIEMPO+ 2000 TPO mechanically fastened to the deck as described below.

**Fastening #1:** Install maximum 96" wide sheets with a 6" overlap fastened 6" o.c. using Dow 2000 Fasteners #15 fasteners and Dow 2000 Metal Seam Plates 2 3/8".  
***Maximum Design Pressure -60.0 psf. (See General Limitations # 7)***

**Fastening # 2:** Install maximum 60" wide sheets with a 6" overlap fastened 6" o.c. using Dow 2000 Fasteners #15 fasteners and Dow 2000 Metal Seam Plates 2-3/8".  
***Maximum Design Pressure – 67.5 psf. (See General Limitations # 7)***

**Maximum Design Pressures:** See Fastening Pattern. (See General Limitations # 7)



## WOOD DECK SYSTEM LIMITATIONS:

- 1 A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

## 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 membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



**END OF THIS ACCEPTANCE**



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