



**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)**

**Umicore Building Products USA Inc.  
3120 Highwoods Boulevard, Suite 104  
Raleigh, NC. 27604**

**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: VM ZINC® Plus Roof Panels**

**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: 06-0920.07  
Expiration Date: 11/16/11  
Approval Date: 11/16/06  
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## ROOFING SYSTEM APPROVAL

**Category:** Roofing  
**Sub-Category:** Non-Structural Metal Panels  
**Material:** Zinc  
**Maximum Design Pressure** -108.65 psf.

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
VM ZINC® Plus Roof Panel	Length: various Width: 16 7/8" and Thickness: 0.028"	TAS 110	Corrosion resistant, performed, standing seam, pre-finished, zinc panels.
2-Piece Sliding Clip	<b>Clip Base:</b> Length :4 5/16" Width: 7/8" Thick: 0.021" <b>Clip Top:</b> Length: 1" Width: 1" Height: 1" Thick: 0.016"	TAS 110	2-piece stainless steel sliding clips for zinc panel installation.
Fixed Clips	Length :1 7/16" Height: 1" Width: 1" Thickness: 0.016"	TAS 110	1-piece stainless steel clips for zinc panel installation.
Trim Pieces	Length: varies Width: varies Thickness: 0.0276"	TAS 110	Standard flashing and trim pieces, corrosion resistant galvalume.

### EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Architectural Testing	66154.01-109-44	TAS 100-95	08/03/06
Farabaugh Engineering and Testing, Inc.	T167-06 T168-06	TAS 125	06/19/06



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## APPROVED ASSEMBLIES

**SYSTEM A-1:** VM ZINC® Plus Roof Panels (with 2 piece sliding clips)

**Deck Type:** Wood, Non-insulated

**Deck Description:** New Construction or Re-Roof (Tear-Off)  
 $\frac{19}{32}$ " or greater plywood or wood plank.

**Slope Range:** 2":12" or greater

**Maximum Uplift Pressure:** See Table A Below

**Deck Attachment:** In accordance with applicable building code, but in no case shall it be less than # 8 x 2" long screws spaced 6" o.c. In reroofing, where the deck is less than  $\frac{19}{32}$ " thick (Minimum  $\frac{15}{32}$ ") The above attachment method must be in addition to existing attachment.

**Underlayment:** Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end laps. Underlayment shall be fastened with corrosion resistant tin-caps and 1 ¼ annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll, or any approved underlayment having a current NOA.

**Valleys:** Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with the current published installation instructions and details in Umicor Building Products USA, Inc's Installation Manual.

**Fire Barrier Board:** (Optional) Any approved firebarrier with current NOA. Or for class A or B fire rating, install minimum ¼" thick Georgia Pacific "Dens Deck (with current NOA) or minimum 4mm thick of Tritex, Rocroof or (with current NOA) or  $\frac{5}{8}$ " water resistant type X gypsum sheathing with treated core and facer.

**Metal Panels and Accessories:** Install the "VM ZINC® Plus Roof Panels" and accessories in compliance with the current published installation instructions and details in Umicore Building Products USA, Inc's Installation Manual. Flashings, penetrations, valley construction and other details shall be constructed in compliance Roofing Application Standard RAS 133.

Install the 2-piece stainless steel panel clips over the male end of the panel using (2) two #8-15 flat countersunk head stainless steel A-point fasteners long enough to penetrate the sheathing  $\frac{3}{16}$ ". Place the screws through the outside holes of the clip. Each clip shall be installed at a maximum distance shown in **Table A** below. Install adjacent panel over the panel and clip assembly and seam using a 180° double lock. See **Detail A** herein.

<b>Table A</b>		
	<b>Field</b>	<b>Perimeter and Corner<sup>1</sup></b>
<b>Maximum Design Pressure</b>	<b>-69.9 psf</b>	<b>-108.65 psf</b>
<b>Maximum Fastener Spacing</b>	<b>18" o.c.</b>	<b>9" o.c.</b>
1. Extrapolation shall not be allowed		



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**SYSTEM A-2:** VM ZINC® Plus Roof Panels (with 1 piece clips)

**Deck Type:** Wood, Non-insulated

**Deck Description:** New Construction or Re-Roof (Tear-Off)  
<sup>19</sup>/<sub>32</sub>" or greater plywood or wood plank.

**Slope Range:** 2":12" or greater

**Maximum Uplift Pressure:** See Table B Below

**Deck Attachment:** In accordance with applicable building code, but in no case shall it be less than # 8 x 2" long screws spaced 6" o.c. In reroofing, where the deck is less than <sup>19</sup>/<sub>32</sub>" thick (Minimum <sup>15</sup>/<sub>32</sub>"") The above attachment method must be in addition to existing attachment.

**Underlayment:** Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end laps. Underlayment shall be fastened with corrosion resistant tin-caps and 1 ¼ annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll, or any approved underlayment having current NOA.

**Valleys:** Valley construction shall be in compliance with Roofing Application Standard RAS 133 and with the current published installation instructions and details in Umicore Building Products USA, Inc's Installation Manual.

**Fire Barrier Board:** (Optional) Any approved firebarrier with current NOA. Or for class A or B fire rating, install minimum ¼" thick Georgia Pacific "Dens Deck (with current NOA) or minimum 4mm thick of Tritex, Rocroof or (with current NOA) or <sup>5</sup>/<sub>8</sub>" water resistant type X gypsum sheathing with treated core and facer.

**Metal Panels and Accessories:** Install the "VM ZINC® Plus Roof Panels" and accessories in compliance with the current published installation instructions and details in Umicore Building Products USA, Inc's Installation Manual. Flashings, penetrations, valley construction and other details shall be constructed in compliance Roofing Application Standard RAS 133.

Install the 1-piece stainless steel panel clips over the male end of the panel using (2) two #8-15 flat countersunk head stainless steel A-point fasteners long enough to penetrate the sheathing 3/16". Each clip shall be installed at a maximum distance shown in **Table B** below. Install adjacent panel over the panel and clip assembly and seam using a 180° double lock. See **Detail B** herein.

<b>Table B</b>		
	<b>Field</b>	<b>Perimeter and Corner<sup>1</sup></b>
<b>Maximum Design Pressure</b>	<b>-82.65 psf</b>	<b>-97.5 psf</b>
<b>Maximum Fastener Spacing</b>	<b>12" o.c.</b>	<b>9" o.c.</b>

1. Extrapolation shall not be allowed

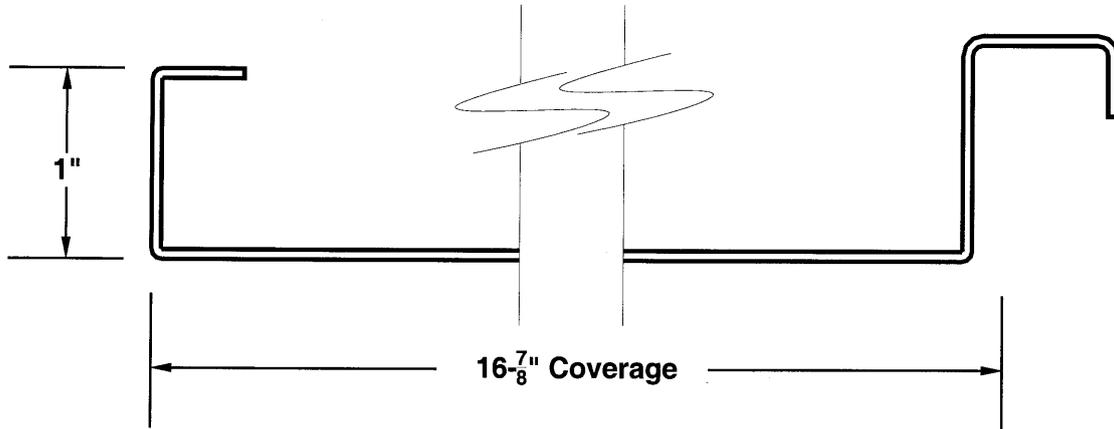


## SYSTEM LIMITATIONS

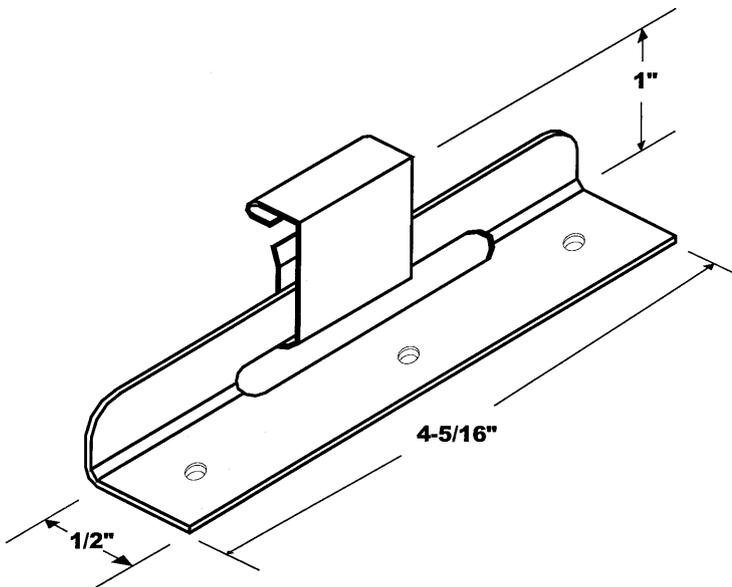
1. The maximum design pressure limitation listed herein shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, and corners).
2. Panels shall be roll formed in continuous lengths from eave to ridge. Maximum lengths shall be as described in Miami-Dade County Roofing Application Protocol RAS 133.
3. All panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement: "Miami-Dade County Product Control Approved. All clips shall be permanently labeled with manufacturer's name and/or logo, and/or model.
4. All products herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.



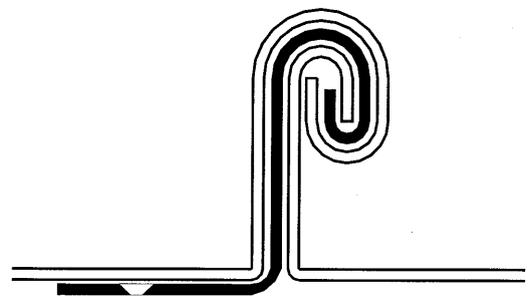
**PROFILE DRAWINGS  
DETAIL A**



**UMICORE VM ZINC® PLUS PANEL**



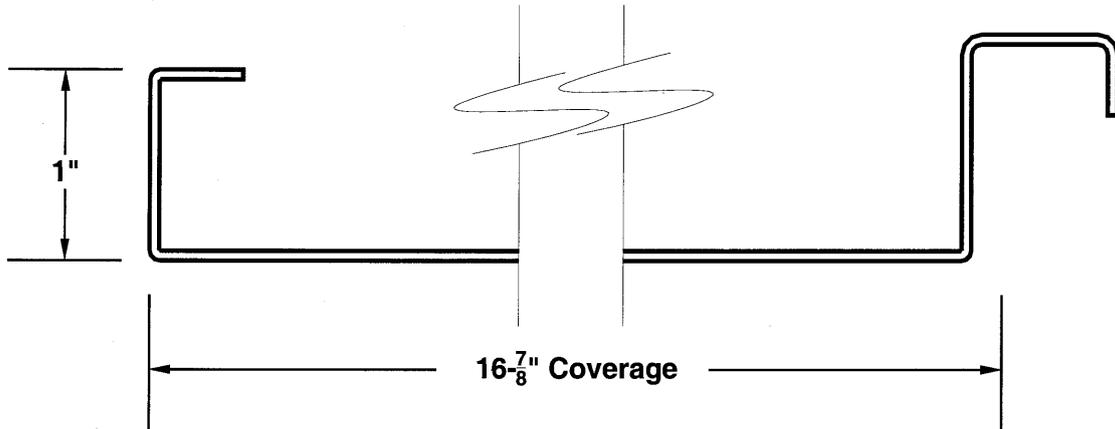
**TWO-PIECE CLIP**  
(SEE TABLE A HEREIN FOR CLIP SPACING)



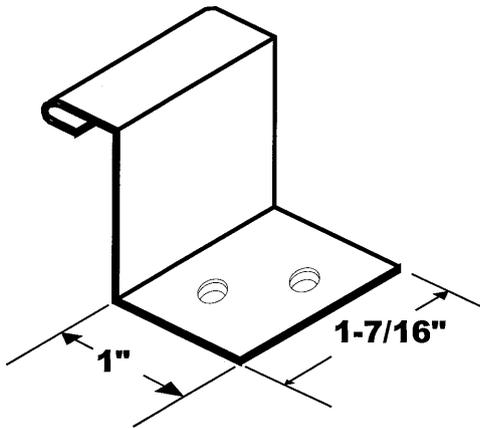
**DOUBLE LOCK**



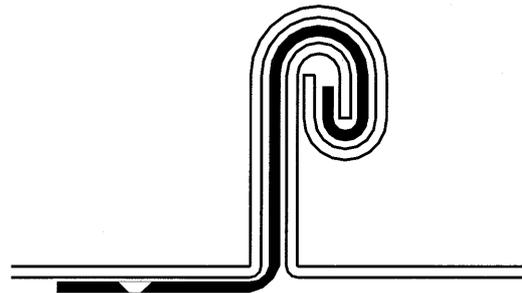
**DETAIL B**



**UMICORE VM ZINC® PLUS PANEL**



**ONE-PIECE CLIP**  
(SEE TABLE B HEREIN FOR CLIP SPACING)



**DOUBLE LOCK**

**END OF THIS ACCEPTANCE**

