



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**NOTICE OF ACCEPTANCE (NOA)**

WinDoor, Inc.  
7500 Amsterdam Drive  
Orlando, FL 32832

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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.

**DESCRIPTION:** Series "9000 Deep Adjustable 12.5° to 30° Thermally Broken" Clipped Aluminum Tube Mullion - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 08-00924, titled "Series 9000 Deep Adjustable 12.5° to 30° Thermally Broken Aluminum Mullion HVHZ LMI", sheets 1 through 5 of 5, dated 03/05/10, with revision B dated 09/03/13, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, 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 this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



*MP*  
9/26/13

NOA No. 11-1011.04  
Expiration Date: October 03, 2018  
Approval Date: October 03, 2013  
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **08-00924**, titled "Series 9000 Deep Adjustable 12.5° to 30° Thermally Broken Aluminum Mullion HVHZ LMI", sheets 1 through 5 of 5, dated 03/05/10, with revision B dated 09/03/13, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E.

**B. TESTS**

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of an adjustable thermally broken aluminum mullion, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3884-2**, dated 05/30/13, signed and sealed by Gerard J. Ferrara, P.E.

**C. CALCULATIONS:**

1. Anchor verification calculations and structural analysis, complying with **FBC-2010**, dated 03/05/10 and 08/13/13, prepared, signed and sealed by Luis R. Lomas, P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. Material Data Sheet for "insulating profiles made of PA 66 GF25 – dry impact resistant, to fit into Technoform I-Strut™ Aluminum Standard Reglet.
2. Test report No. **ATI-61261.01-106-18**, prepared by Architectural Testing, Inc., dated 12/08/05, with revision date 01/04/06, issued to **Technoform**, for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D635-03** "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position" and **ASTM D2843-99** "Standard Test Method for the Density of Smoke from the Burning Decomposition of Plastics", signed and sealed by Joseph A. Reed, P.E.
3. Test report No. **ETC-07-1043-19094.0**, prepared by ETC Laboratories, dated 02/04/08, issued to Technoform Bautech NA, Inc., for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D638-03** "Standard Test Methods for Tensile Properties of Plastics", for exposed & unexposed sample per Xenon Arc after 4500 Hours, signed and sealed by Joseph Labora Doldan, P.E.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 11-T011.02

Expiration Date: October 03, 2018

Approval Date: October 03, 2013

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**E. MATERIAL CERTIFICATIONS (CONTINUED)**

4. Test report No. **ETC-08-1043-20974.0**, prepared by ETC Laboratories, dated 07/01/08, issued to Technoform, for their **I-Strut Insulating Strip** comprised of **Polyamide with 25% glass fibers**, per **ASTM D1929-96** "*Standard Test Method for Ignition Properties of Plastics*", signed and sealed by Joseph Doldan, P.E.

**F. STATEMENTS**

1. Statement letter of conformance, complying with the **FBC-2010** and of no financial interest, dated August 14, 2013, signed and sealed by Luis R. Lomas, P.E.

**G. OTHERS**

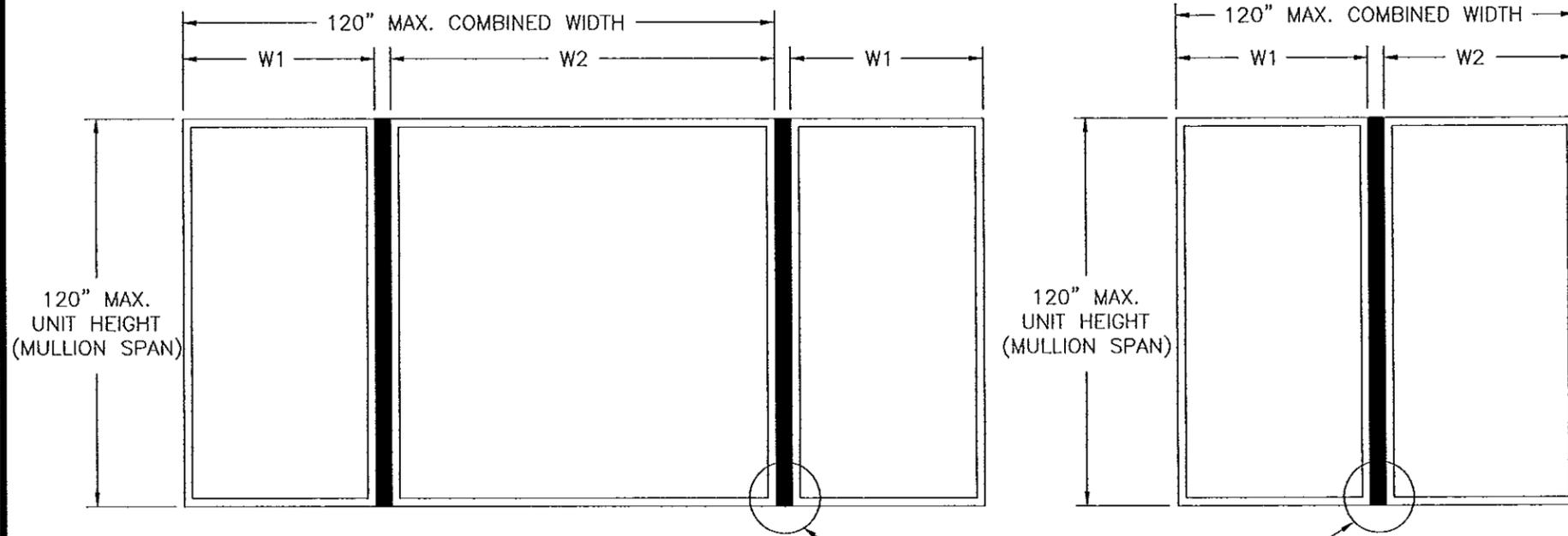
1. None.

  
Manuel Perez, P.E.

Product Control Examiner  
NOA No. 11-1011.04

Expiration Date: October 03, 2018

Approval Date: October 03, 2013



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	08/13/13	R.L.
B	REVISED BOM AND CLIP	09/03/13	R.L.

- NOTES:
- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
  - 2) WOOD FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
  - 3) ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
  - 4) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS
  - 5) DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS OR DOORS MUST BE APPROVED UNDER SEPARATE APPROVAL.
  - 6) SINGLE WINDOWS OR DOORS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. SINGLE WINDOWS OR DOORS MUST BE MANUFACTURED BY WINDOW INC.
  - 7) DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF MULLION ASSEMBLY OR INDIVIDUAL WINDOW OR DOOR UNIT.
  - 8) UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.

Design pressure rating (psf)							
Mullion span (in)	Tributary width (in)						
	24.00	30.00	36.00	42.00	48.00	54.00	60.00
24.00	200.0	200.0	200.0	200.0	200.0	200.0	200.0
30.00	200.0	200.0	200.0	200.0	200.0	200.0	200.0
36.00	200.0	200.0	200.0	200.0	200.0	200.0	200.0
42.00	200.0	200.0	200.0	200.0	200.0	200.0	200.0
48.00	200.0	200.0	200.0	200.0	200.0	200.0	200.0
54.00	200.0	200.0	200.0	200.0	200.0	200.0	200.0
60.00	200.0	200.0	200.0	200.0	200.0	200.0	200.0
66.00	200.0	200.0	200.0	200.0	200.0	200.0	200.0
72.00	200.0	200.0	200.0	200.0	200.0	200.0	200.0
78.00	200.0	200.0	200.0	200.0	200.0	200.0	200.0
84.00	200.0	200.0	200.0	200.0	200.0	187.1	177.8
90.00	200.0	200.0	200.0	198.8	181.8	169.3	160.0
96.00	200.0	200.0	200.0	182.9	166.7	154.6	145.5
102.00	200.0	200.0	190.5	169.3	153.4	139.3	128.5
108.00	200.0	200.0	175.4	152.5	135.6	122.9	113.0
114.00	200.0	186.2	156.8	136.1	120.9	109.3	100.2
120.00	200.0	167.7	141.1	122.3	108.4	97.8	89.6

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

- DESIGN PRESSURE TABLE INSTRUCTIONS:
- 1) DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
  - 2) DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
  - 3) LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATIONS, NOTES AND DESIGN PRESSURE CHART
2	BILL OF MATERIALS AND COMPONENTS
3	ASSEMBLED VIEW AND INSTALLATION DETAIL
4 - 5	INSTALLATION DETAILS

Approved as complying with the Florida Building Code  
 Date Oct 3, 2013  
 NOAH 11-1011.04  
 Miami Dade Product Control  
 By Manuel Perez

**WinDoor**  
 INCORPORATED  
 7500 AMSTERDAM DRIVE  
 ORLANDO, FL 32832  
 Phone: 407.481.8400  
 Fax: 407.481.0505  
 www.windowinc.com

SERIES 9000 DEEP ADJUSTABLE 12.5° TO 30° THERMALLY BROKEN ALUMINUM MULLION HVHZ LMI ELEVATIONS, NOTES AND DESIGN PRESSURE CHART

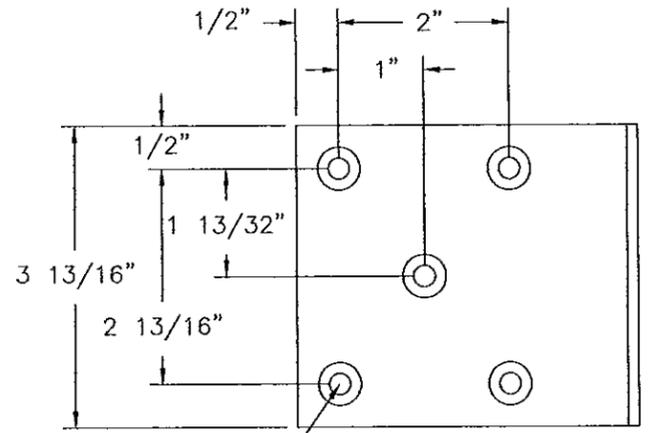
DRAWN: TJH DWG NO. 08-00924 REV B

SCALE NTS DATE 03/05/10 SHEET 1 OF 5

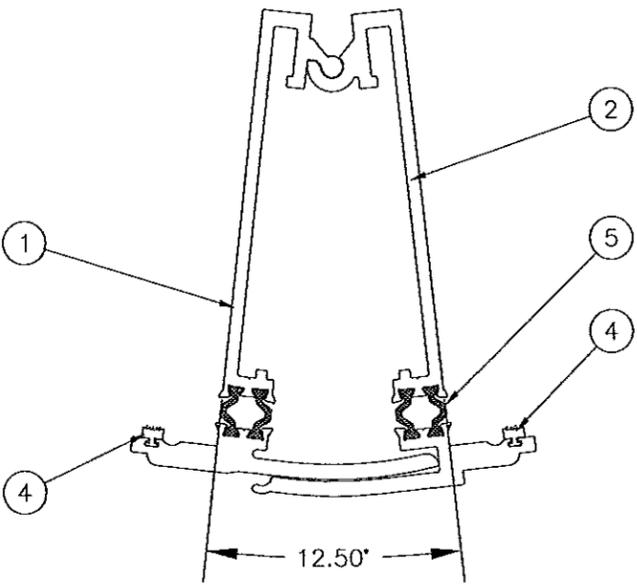
SIGNED: 09/03/2013

BILL OF MATERIALS				
ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	9AMU56-WDI	ADJUSTABLE MULLION INNER ASSY	KEYMARK	ALUMINUM 6005-T6
2	9AMU78-WDI	ADJUSTABLE MULLION OUTER ASSY	KEYMARK	ALUMINUM 6063-T6
3	FS-03854	4" x 4" MULL L-CLIP	KEYMARK	ALUMINUM 6105-T5
4	GS-VN-07A	EXTERIOR VINYL	TEAM PLASTICS	VINYL
5		14.6 MM THERMAL STRUT	TECHNOFORM	NYLON POLYAMIDE (PA 66 GF25)

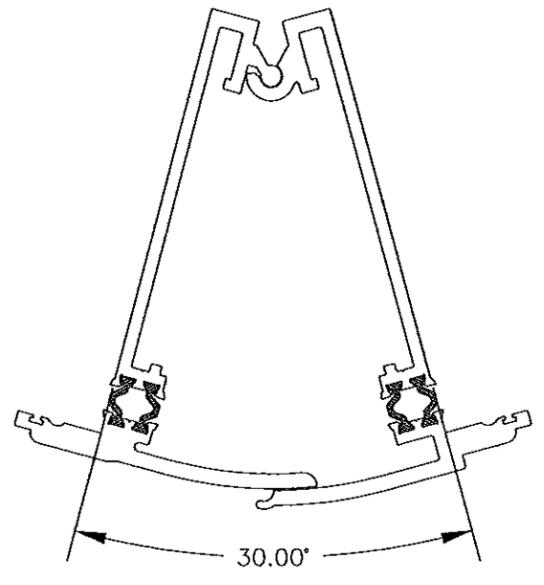
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	08/13/13	R.L.
B	REVISED BOM AND CLIP	09/03/13	R.L.



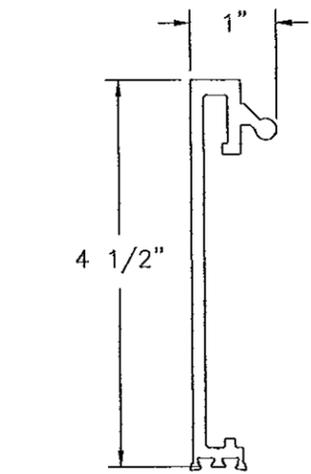
5X DRILL THRU AND  
CSK FOR  
#12 ANCHORS



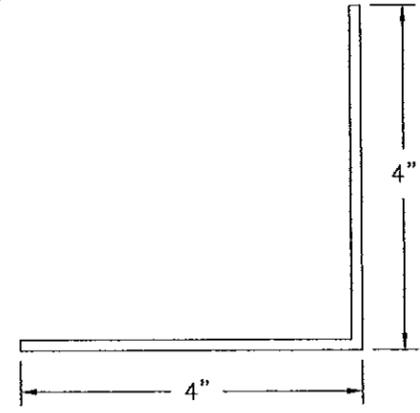
**MULLION ASSEMBLY DETAIL @ 12 1/2°**  
TOTAL MI = 14.9098  
EFFECTIVE MI = 13.662  
(EFFECTIVE MI PER TESTING)



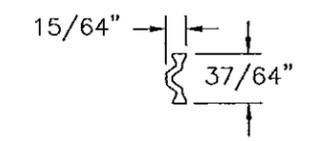
**MULLION ASSEMBLY DETAIL @ 30°**  
TOTAL MI = 14.9098  
EFFECTIVE MI = 13.662  
(EFFECTIVE MI PER TESTING)



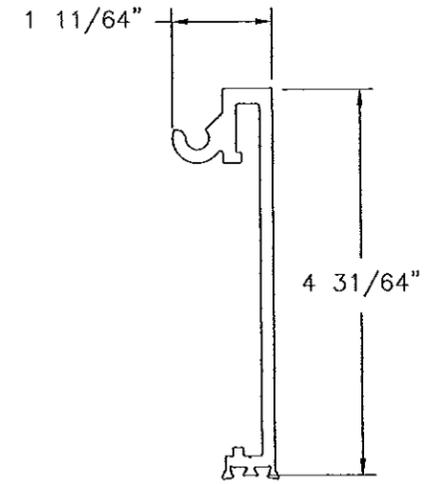
**ADJUSTABLE MULLION - INNER**  
ALUMINUM 6105-T5 .150" THICK



**4" x 4" MULL L-CLIP**  
ALUMINUM 6105-T5 .125" THICK

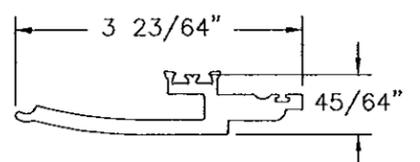


**14.6MM THERMAL STRUT**  
NYLON POLYAMIDE .070" THICK

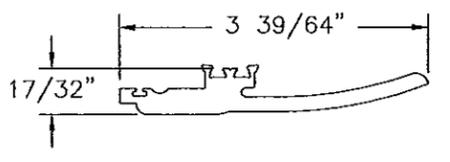


**ADJUSTABLE MULLION - OUTER**  
ALUMINUM 6105-T5 .150" THICK

SIGNED: 09/03/2013



**ADJUSTABLE MULLION - OUTER**  
ALUMINUM 6105-T5 .135" THICK



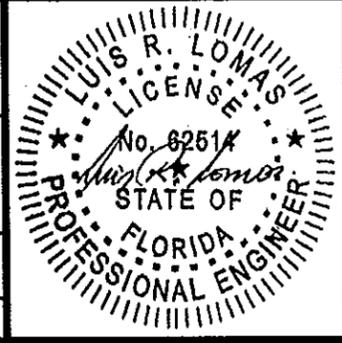
**ADJUSTABLE MULLION - INNER**  
ALUMINUM 6105-T5 .135" THICK

Approved as complying with the  
Florida Building Code  
Date Oct. 3, 2013  
NOAH 11-1011-04  
Miami Dade Product Control  
By Manuel Perez

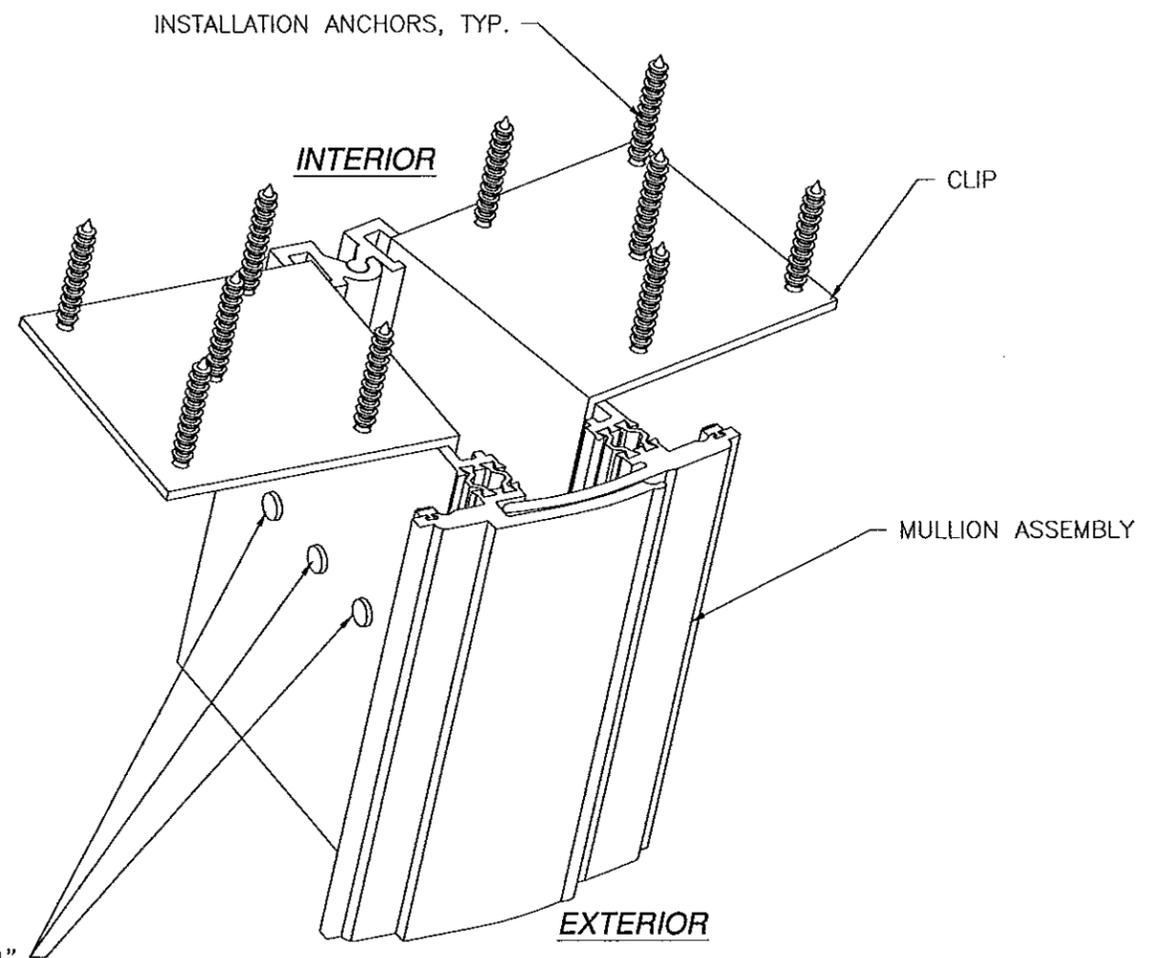
**WinDoor**  
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Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

SERIES 9000 DEEP ADJUSTABLE 12.5° TO 30°  
THERMALLY BROKEN ALUMINUM MULLION HVHZ LMI  
BILL OF MATERIALS AND COMPONENTS

DRAWN: TJH	DWG NO. 08-00924	REV B
SCALE NTS	DATE 03/05/10	SHEET 2 OF 5

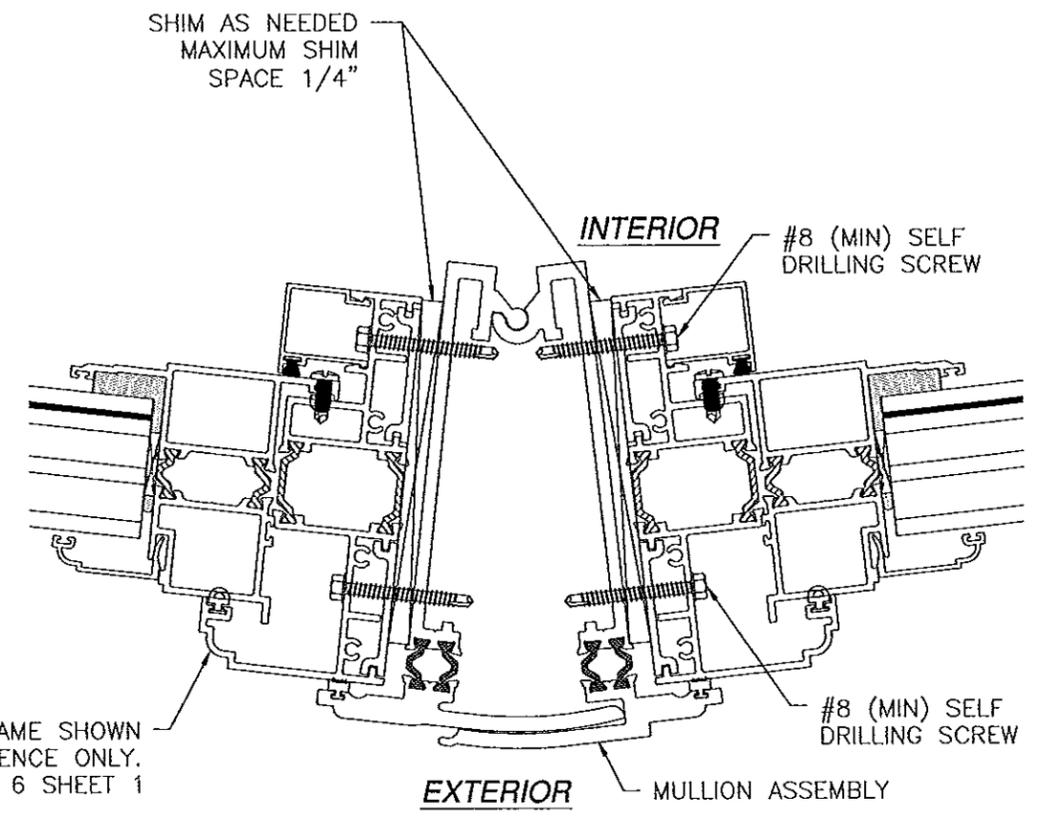


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	08/13/13	R.L.
B	REVISED BOM AND CLIP	09/03/13	R.L.



#10 x 3/4"  
SELF DRILLING  
SCREW (3) PER CLIP,  
SEE NOTE 8 SHEET 4

**SERIES 9000 DEEP ADJUSTABLE 12.5° TO 30° THERMALLY  
BROKEN ALUMINUM MULLION HVHZ LMI  
ASSEMBLY VIEW  
HEAD SHOWN, SILL SIMILAR**



**DOOR/WINDOW TO MULLION  
INSTALLATION DETAIL  
WINDOW FRAME SHOWN FOR DETAIL  
PURPOSES ONLY, MULLION IS NOT LIMITED  
TO THIS PRODUCT**

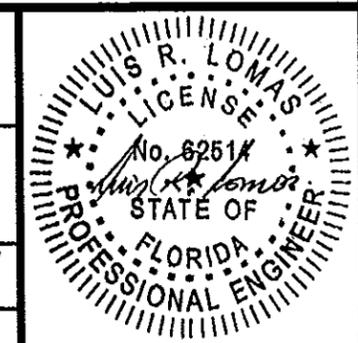
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NOA# 11-1011.04  
Miami Dade Product Control  
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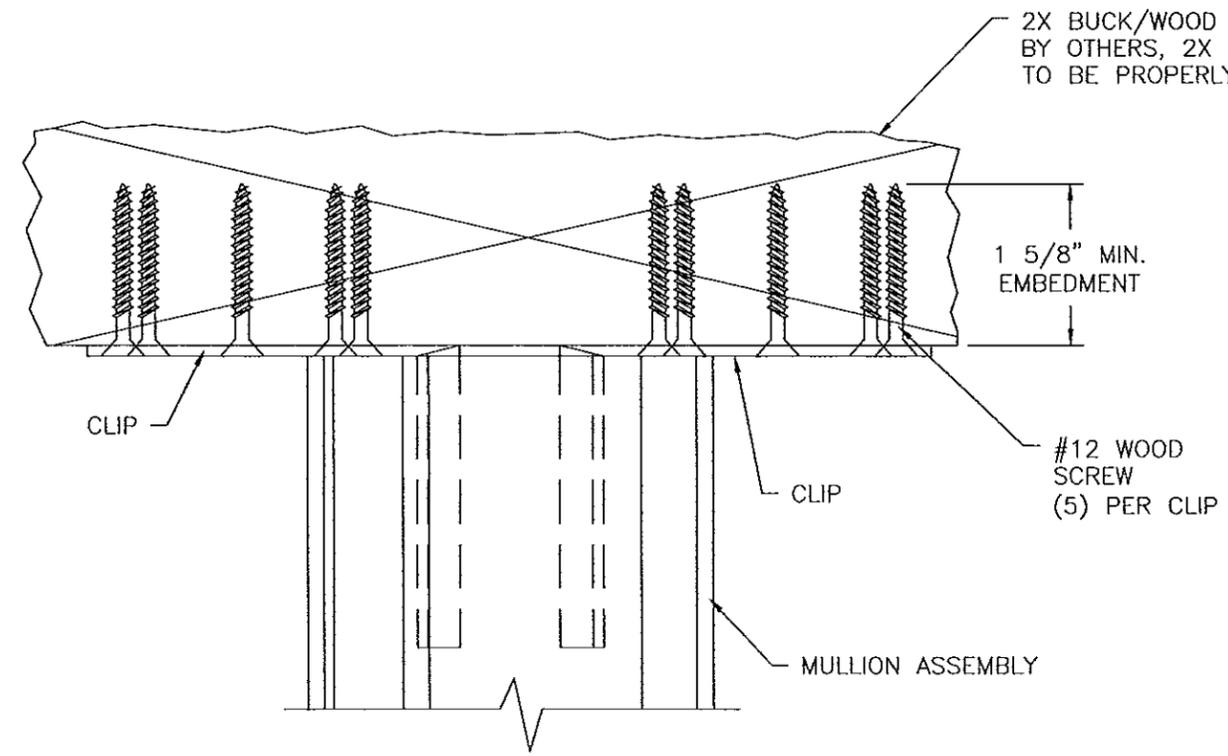
SERIES 9000 DEEP ADJUSTABLE 12.5° TO 30°  
THERMALLY BROKEN ALUMINUM MULLION HVHZ LMI  
ASSEMBLED VIEW AND INSTALLATION DETAIL

DRAWN: TJH	DWG NO. 08-00924	REV B
SCALE NTS	DATE 03/05/10	SHEET 3 OF 5

SIGNED: 09/03/2013

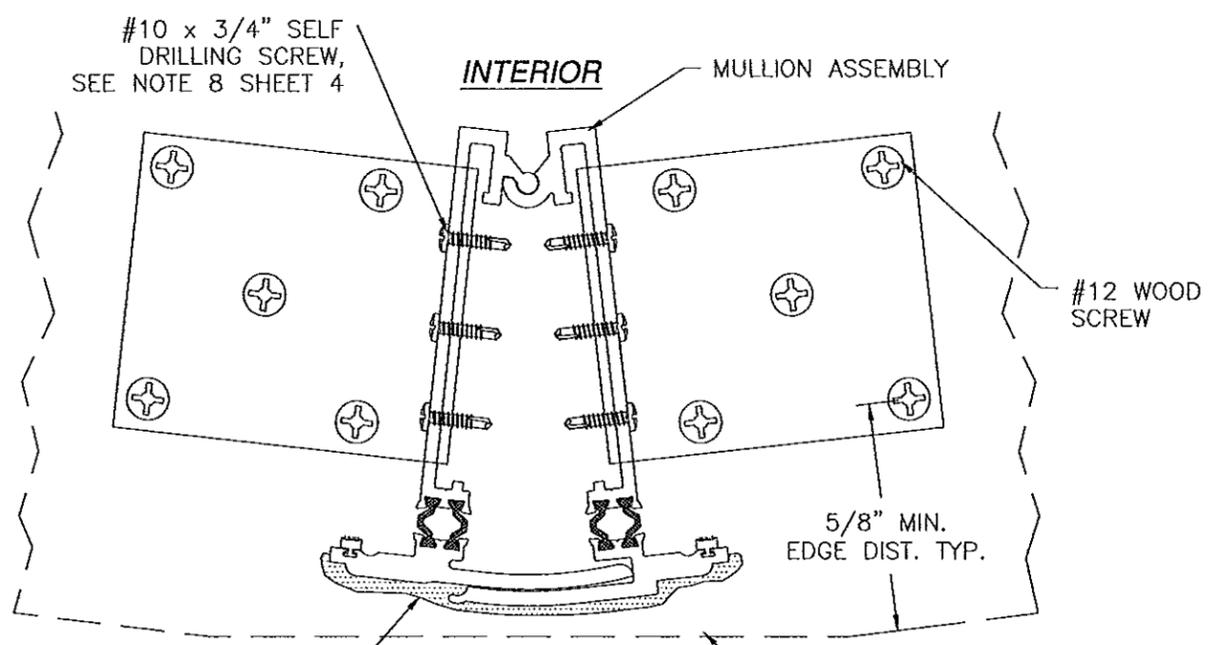


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	08/13/13	R.L.
B	REVISED BOM AND CLIP	09/03/13	R.L.



ANCHORING NOTES:

- 1) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 4.
- 2) FOR ANCHORING INTO CONCRETE USE 1/4" ITW TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 5.
- 3) FOR ANCHORING INTO 16GA. MINIMUM METAL FRAMING USE #10 SELF DRILLING SCREW WITH SUFFICIENT LENGTH TO ACHIEVE 3-THREADS MINIMUM BEYOND METAL FRAMING. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 5.
- 4) FOR ATTACHING WINDOW UNITS TO MULLION USE #10 (MIN.) SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE MULLION WALL. LOCATE SCREWS 6" FROM EACH MULLION END AND 18" MAX. O.C. THEREAFTER. STAGGER SCREWS AT EACH WINDOW.
- 5) FOR WINDOW AND DOOR UNITS ANCHORING SCHEDULE REFER TO WINDOW AND DOOR APPROVED INSTALLATION INSTRUCTIONS.
- 6) ALL FASTENERS TO BE CORROSION RESISTANT.
- 7) INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE - 2000 PSI MINIMUM
  - C. METAL FRAMING - 16GA. (.063") MINIMUM
- 8) TO ATTACH MULLION TO CLIP USE (3) #10 x 3/4" SELF DRILLING SCREWS PER CLIP. SCREWS MUST BE FIELD INSTALLED. SCREW HOLES ARE NOT PRE-DRILLED BY MANUFACTURER.



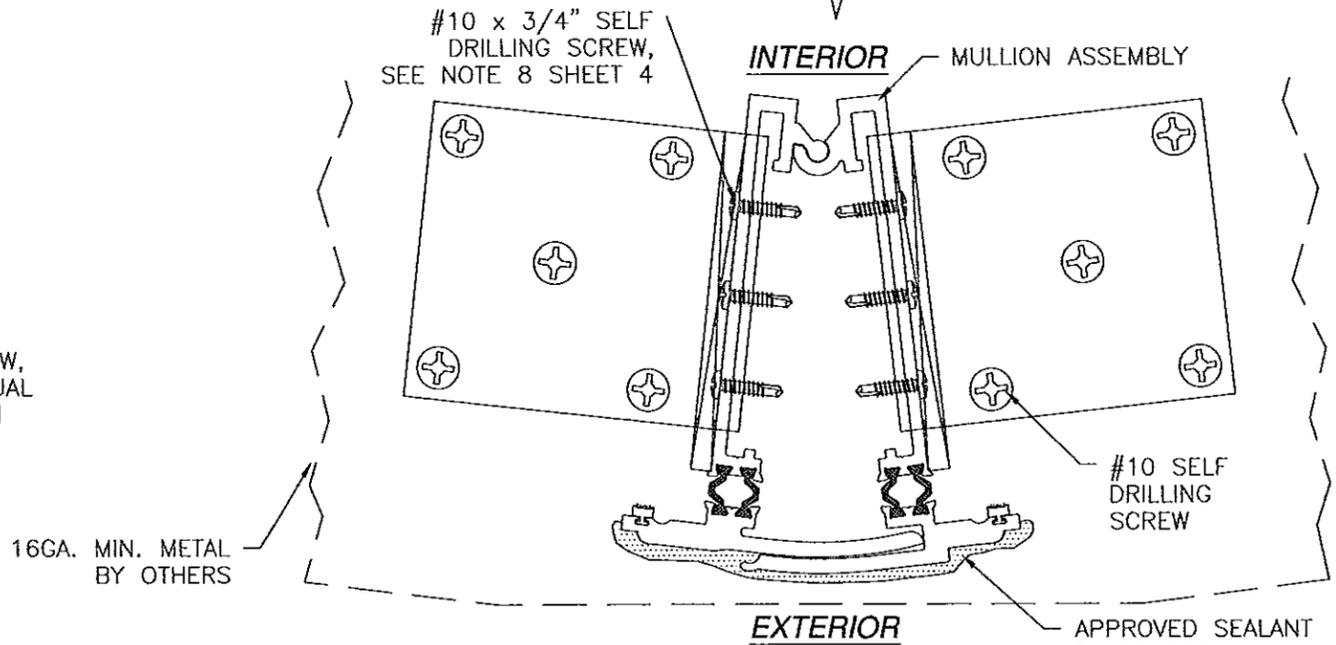
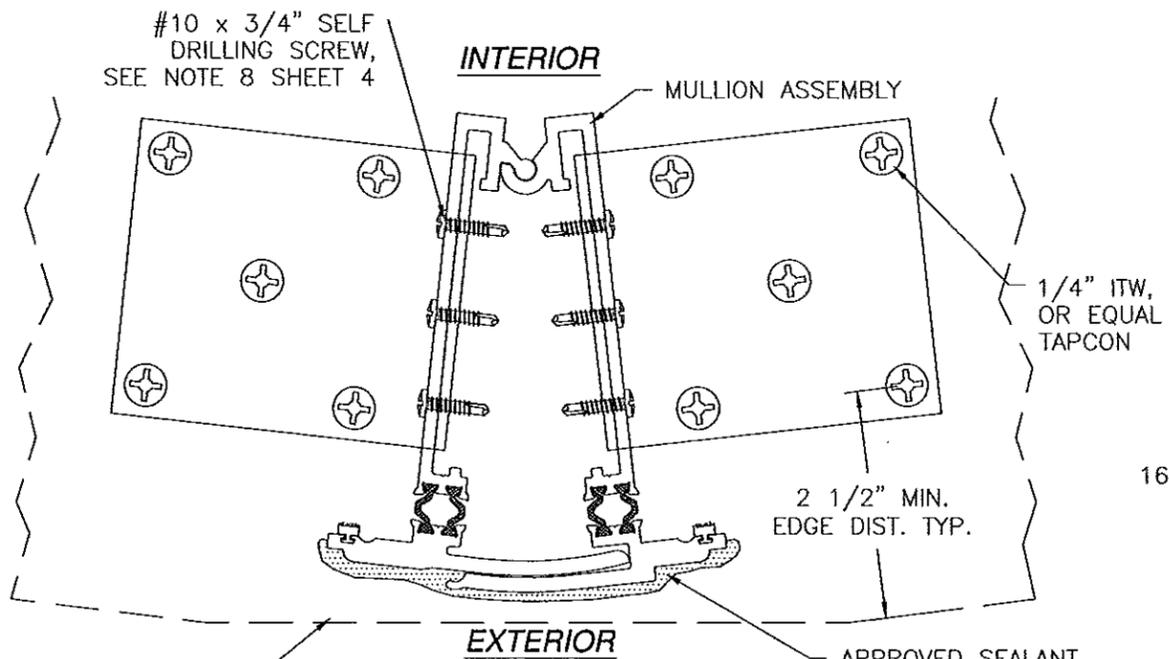
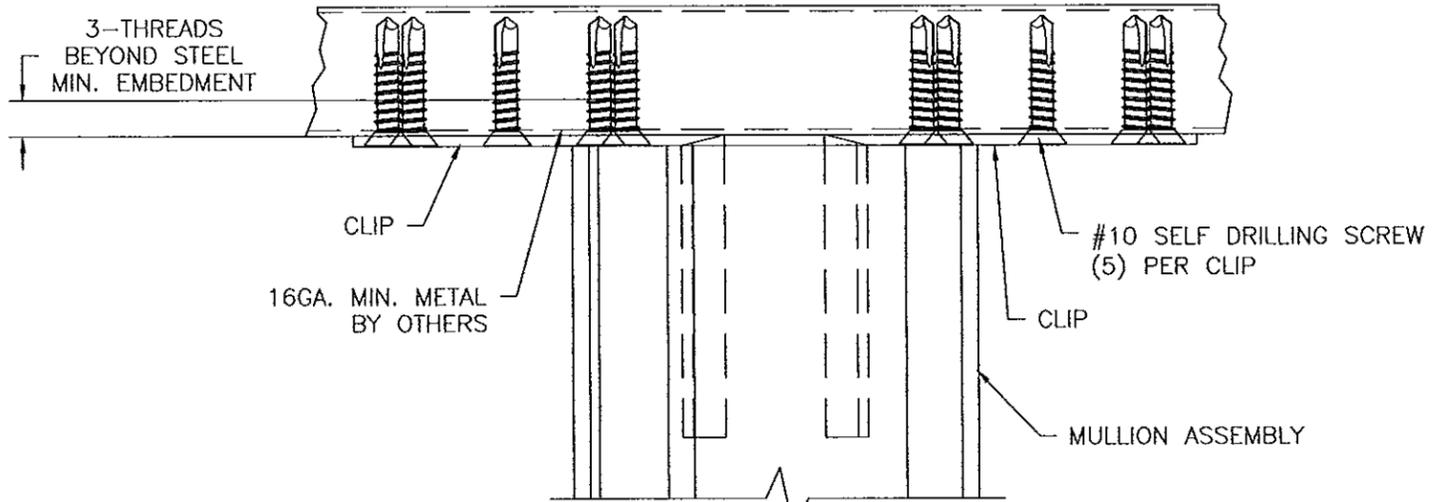
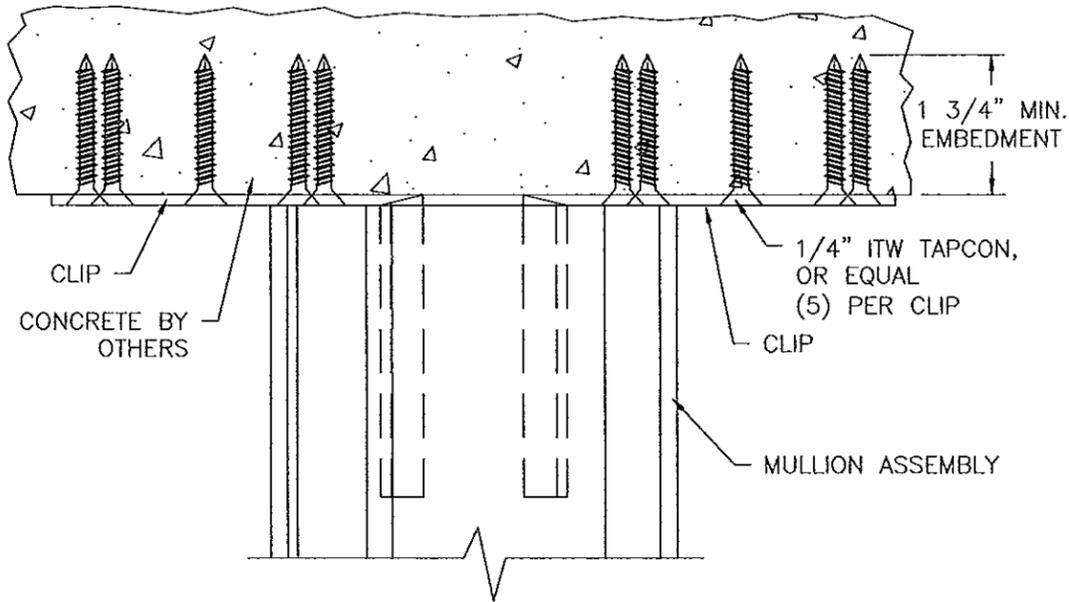
APPROVED SEALANT BY OTHERS, TOP AND BOTTOM

**CLIP INSTALLATION DETAIL**  
2X BUCK/WOOD FRAMING, TOP & BOTTOM SIMILAR

SIGNED: 09/03/2013

Approved as complying with the Florida Building Code Date: <u>Oct 3, 2013</u> NOA# <u>11-1011-04</u> Miami Dade Product Control By: <u>Manuel Perez</u>	<b>WinDoor</b> INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
	SERIES 9000 DEEP ADJUSTABLE 12.5° TO 30° THERMALLY BROKEN ALUMINUM MULLION HVHZ LMI INSTALLATION DETAILS	
DRAWN: TJH SCALE NTS	DWG NO. 08-00924 DATE 03/05/10	REV B SHEET 4 OF 5

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW TESTING	08/13/13	R.L.
B	REVISED BOM AND CLIP	09/03/13	R.L.



**CLIP INSTALLATION DETAIL**  
CONCRETE INSTALLATION, TOP & BOTTOM SIMILAR

**CLIP INSTALLATION DETAIL**  
16GA. MIN. METAL FRAMING, TOP & BOTTOM SIMILAR

Approved as complying with the Florida Building Code  
 Date Oct. 3, 2013  
 NOA# 11-1011-04  
 Miami Dade Product Control  
 By *Manuel Brey*

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SERIES 9000 DEEP ADJUSTABLE 12.5' TO 30'  
 THERMALLY BROKEN ALUMINUM MULLION HVHZ LMI  
 INSTALLATION DETAILS

DRAWN: TJH	DWG NO. 08-00924	REV B
SCALE NTS	DATE 03/05/10	SHEET 5 OF 5

