



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidadecounty.gov/economy

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 Thermally Broken Universal" Clipped Aluminum Tube Mullion - L.M.I.

APPROVAL DOCUMENT: Drawing No. 08-02300, titled "Series 9000 Thermally Broken 2" x 4-1/8" Universal Mullion", sheets 1 through 14 of 14, dated 03/11/14, with revision A dated 06/26/15, 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, 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
10/28/15

NOA No. 14-0515.12
Expiration Date: October 22, 2020
Approval Date: October 22, 2015
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **08-02300**, titled "Series 9000 Thermally Broken 2" x 4-1/8" Universal Mullion", sheets 1 through 14 of 14, dated 03/11/14, with revision A dated 06/26/15, 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 a thermally broken aluminum mullion, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3995-02**, dated 03/05/15, signed and sealed by Gerard J. Ferrara, P.E.

C. CALCULATIONS:

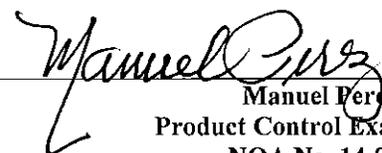
1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 05/06/14 revised on 10/06/15, prepared, signed and sealed by Luis R. Lomas, P.E.

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, revised on 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 02/18/08, issued to Technoform Bautech NA, Inc., for their **Technoform 18.6mm Flat I-Strut** comprised of 5.91% difference, 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. 14-0515.12

Expiration Date: October 22, 2020
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS (CONTINUED)

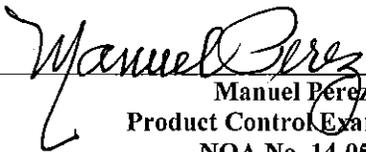
4. Test report No. **ETC-08-1043-20974.0**, prepared by ETC Laboratories, dated 07/01/08, issued to Technoform, for their **I-Strut Insulating Strip PA 66 GF25** passed, per **ASTM D1929-96** "Standard Test Method for Ignition Properties of Plastics", signed and sealed by Joseph Labora Doldan, P.E.
5. Test report No. **ATI-60520.02-106-18**, prepared by Architectural Testing, Inc., dated 11/09/06, revised on 11/29/06, issued to **Ensinger, Inc.**, for their **Tecatherm 66 GF**, 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", **ASTM D638-03** "Standard Test Methods for Tensile Properties of Plastics", for exposed & unexposed sample per Xenon Arc after 4500 Hours, **ASTM D1929-96** "Standard Test Method for Ignition Properties of Plastics", signed by Joseph A. Reed, P.E.

D. STATEMENTS

1. Statement letter of conformance, complying with the **FBC 5th Edition (2014)** and of no financial interest, dated 10/05/15, signed and sealed by Luis R. Lomas, P.E.
2. Laboratory compliance letter for Test Report No. **NCTL-210-3995-02**, issued by National Certified Testing Laboratories, dated 03/05/15, signed and sealed by Gerard J. Ferrara, P.E.
3. Laboratory compliance letters for Test Report No. **ETC-07-1043—19094.0**, dated 2/18/08 and **ETC-08-1043-20974.0**, dated 07/01/08, issued by ETC Laboratories, both signed and sealed by Joseph Labora Doldan, P.E.
4. Laboratory compliance letters for Test Report No.'s **ATI-60520.02-106-18**, dated 11/09/06, revised on 11/29/06 and **ATI-61261.01-106-18**, dated 12/08/05, revised on 01/04/06, issued by Architectural Testing, Inc., both signed and sealed by Joseph A. Reed, P.E.

G. OTHERS

1. None.


Manuel Pérez, P.E.
Product Control Examiner
NOA No. 14-0515.12

Expiration Date: October 22, 2020
Approval Date: October 22, 2015

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE. IN ACCORDANCE WITH SECTION 1710.5 AND 1710.5.3 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 UP TO WIND ZONE 4 AND HVHZ.
5. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
6. SINGLE WINDOWS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. WINDOWS MUST BE MANUFACTURED BY WinDoor INC.
7. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE 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.
9. VERTICAL AND HORIZONTAL MULLION INSTALLATION IS SHOWN.

ANCHORING NOTES:

1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/16" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
2. FOR ANCHORING INTO CONCRETE USE 1/4" ITW TAPCON WITH ADVANCED THREAD FROM TECHNOLOGY OR 1/4" CRETE-FREX SS4 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.
3. FOR ANCHORING INTO METAL STRUCTURE USE #12 SMS GRADE 5 OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
4. FOR ATTACHING WINDOW UNITS TO MULLION USE #10 GRADE 5 SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE MULLION WALL. LOCATE SCREWS IN ACCORDANCE WITH WINDOW ANCHORING SCHEDULE AS SHOWN IN WINDOW SEPARATE APPROVAL.
5. ALL FASTENERS TO BE CORROSION RESISTANT.
6. 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 - MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - C. NORMAL WEIGHT MASONRY HOLLOW FILLED BLOCK PER AS ASTM C90 WITH F'm= 2,000 PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048"), Fy= 33KSI/ Fu= 52KSI OR ALUMINUM 6063-T5 Fu= 30KSI 1/8" THICK MINIMUM

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SHEET NO.	DESCRIPTION
1	NOTES
2 - 4	VERTICAL MULLION
4 - 9	HORIZONTAL MULLION
10 - 16	INSTALLATION DETAILS & COMPONENTS

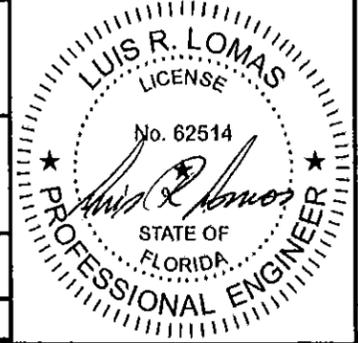
Approved as complying with the Florida Building Code
 Date 10/22/2015
 NOA 14-0515.12
 Miami Dade Product Control
 By Manuel Perez

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

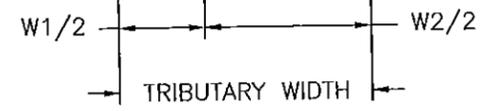
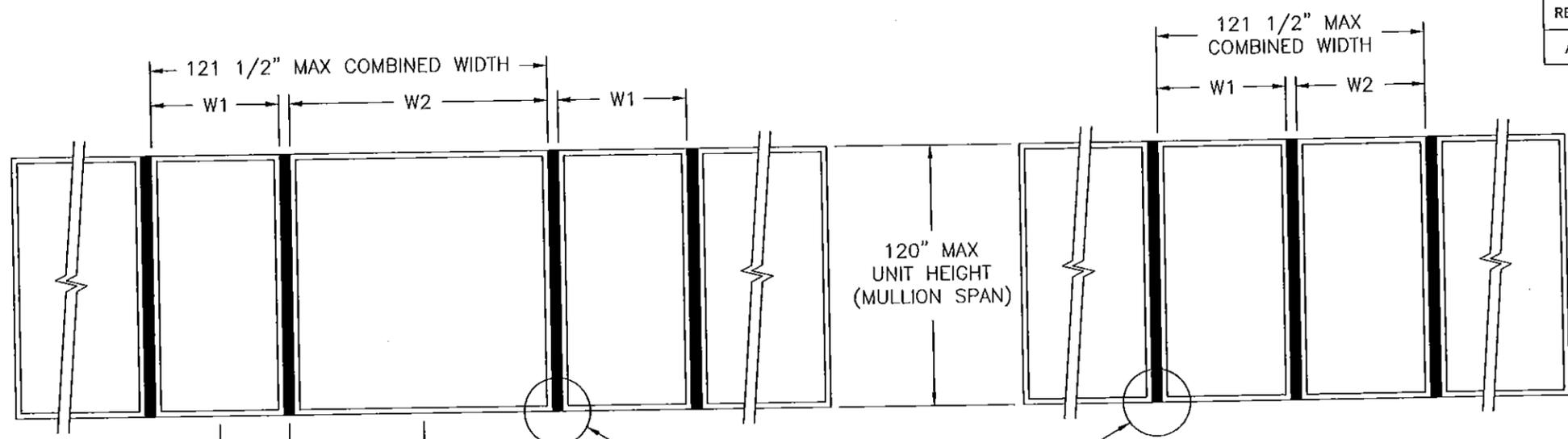
SERIES 9000 THERMALLY BROKEN 2"X4-1/8"
 UNIVERSAL MULLION
 NOTES

DRAWN:	DWG NO.	REV
N.G.	08-02300	A
SCALE NTS	DATE 03/11/14	SHEET 1 OF 16

SIGNED: 10/05/2015



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.



SEE CLIP INSTALLATION DETAIL TYPICAL

VERTICAL MULLION
SINGLE UNITS
SEE CHART #1 FOR RATINGS

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.
4. TRIBUTARY WINDOW WIDTH (TW) = [WINDOW WIDTH (W1) + WINDOW WIDTH (W2)]/2. SEE FORMULA BELOW.

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

CHART #1

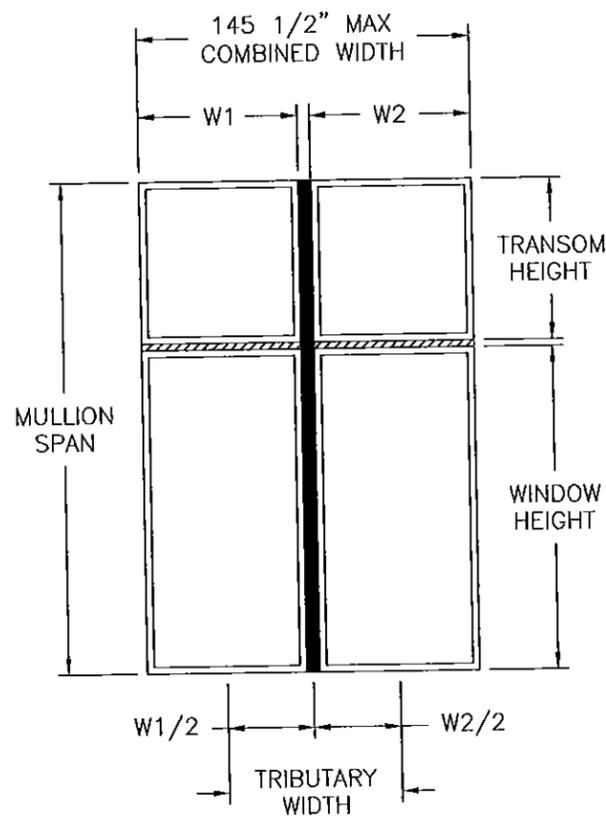
Mullion span (in)	Tributary width (in)				
	36.00	42.00	48.00	54.00	60.00
48.00	150.0	150.0	150.0	150.0	150.0
54.00	150.0	150.0	150.0	150.0	150.0
60.00	150.0	150.0	150.0	150.0	150.0
66.00	150.0	150.0	150.0	150.0	150.0
72.00	150.0	150.0	150.0	149.1	143.8
78.00	150.0	150.0	139.8	130.2	122.7
84.00	143.9	126.8	114.6	105.8	99.3
90.00	115.8	101.7	91.5	84.0	78.4
96.00	94.7	82.9	74.3	67.9	63.1
102.00	78.4	68.5	61.2	55.8	51.6
108.00	65.7	57.2	51.1	46.4	42.8
114.00	55.6	48.4	43.1	39.0	35.9
120.00	47.5	41.2	36.6	33.2	30.4

IMPACT RATED UP TO WIND ZONE 4 & HVHZ

SIGNED: 10/05/2015

Approved as complying with the Florida Building Code Date: 10/05/2015 NOA: 14-0515-12 Miami Dade Product Control By: <i>Manuel Cruz</i>	WinDoor INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
	SERIES 9000 THERMALLY BROKEN 2"X4-1/8" UNIVERSAL MULLION VERTICAL SINGLE UNITS ELEVATION	
DRAWN: N.G.	DWG NO. 08-02300	REV A
SCALE NTS	DATE 03/11/14	SHEET 2 OF 16

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.



VERTICAL MULLION
TWIN UNITS WITH TWIN TRANSOMS
SEE CHARTS #2, #3, #4, #5 AND #6 FOR RATINGS

CHART #2
Design pressure chart (psf)

Mullion span (in)	Window Height (in)	Transom Height (in)	Tributary width (in)						
			36.00	42.00	48.00	54.00	60.00	66.00	72.00
72.00	36.00	36.00	93.2	83.9	76.3	69.9	64.5	59.9	55.9
78.00	42.00	36.00	83.9	75.4	68.7	63.1	58.4	54.3	50.7
84.00	48.00	36.00	76.3	68.2	62.1	57.2	53.0	49.3	46.2
90.00	54.00	36.00	69.9	62.3	56.6	52.0	48.3	45.0	42.2
96.00	60.00	36.00	64.5	57.4	51.9	47.6	44.2	41.3	38.7
102.00	66.00	36.00	59.9	53.1	47.9	43.9	40.6	37.9	35.6
108.00	72.00	36.00	55.9	49.5	44.5	40.7	37.6	35.0	32.9
114.00	78.00	36.00	50.6	44.2	39.4	35.7	32.8	30.4	28.5
120.00	84.00	36.00	42.8	37.3	33.3	30.2	27.7	25.7	24.0

IMPACT RATED UP TO WIND ZONE 4 AND HVHZ

CHART #3
Design pressure chart (psf)

Mullion span (in)	Window Height (in)	Transom Height (in)	Tributary width (in)						
			36.00	42.00	48.00	54.00	60.00	66.00	72.00
78.00	36.00	42.00	83.9	75.4	68.7	63.1	58.4	54.3	50.7
84.00	42.00	42.00	76.3	68.5	62.5	57.5	53.3	49.6	46.4
90.00	48.00	42.00	69.9	62.5	57.0	52.6	48.7	45.4	42.6
96.00	54.00	42.00	64.5	57.5	52.3	48.2	44.7	41.8	39.2
102.00	60.00	42.00	59.9	53.3	48.3	44.3	41.2	38.5	36.1
108.00	66.00	42.00	55.9	49.6	44.8	41.1	38.1	35.6	33.4
114.00	72.00	42.00	51.7	45.1	40.1	36.3	33.2	30.8	28.7
120.00	78.00	42.00	43.8	38.2	34.0	30.7	28.1	26.0	24.3
126.00	84.00	42.00	37.4	32.6	29.0	26.2	24.0	22.2	20.7

IMPACT RATED UP TO WIND ZONE 4 AND HVHZ

CHART #4
Design pressure chart (psf)

Mullion span (in)	Window Height (in)	Transom Height (in)	Tributary width (in)						
			36.00	42.00	48.00	54.00	60.00	66.00	72.00
84.00	36.00	48.00	76.3	68.2	62.1	57.2	53.0	49.3	46.2
90.00	42.00	48.00	69.9	62.5	57.0	52.6	48.7	45.4	42.6
96.00	48.00	48.00	64.5	57.5	52.4	48.4	44.9	41.9	39.3
102.00	54.00	48.00	59.9	53.3	48.4	44.6	41.5	38.8	36.4
108.00	60.00	48.00	55.9	49.6	44.9	41.3	38.4	36.0	33.8
114.00	66.00	48.00	52.4	45.7	40.6	36.7	33.6	31.0	28.8
120.00	72.00	48.00	44.6	38.8	34.5	31.1	28.4	26.3	24.4
126.00	78.00	48.00	38.1	33.2	29.5	26.6	24.3	22.4	20.9
132.00	84.00	48.00	32.8	28.5	25.3	22.9	20.9	19.3	17.9

IMPACT RATED UP TO WIND ZONE 4 AND HVHZ

CHART #5
Design pressure chart (psf)

Mullion span (in)	Window Height (in)	Transom Height (in)	Tributary width (in)						
			36.00	42.00	48.00	54.00	60.00	66.00	72.00
90.00	36.00	54.00	69.9	62.3	56.6	52.0	48.3	45.0	42.2
96.00	42.00	54.00	64.5	57.5	52.3	48.2	44.7	41.8	39.2
102.00	48.00	54.00	59.9	53.3	48.4	44.6	41.5	38.8	36.4
108.00	54.00	54.00	55.9	49.6	44.9	41.4	38.6	36.1	33.9
114.00	60.00	54.00	52.4	46.0	40.9	36.9	33.7	31.1	28.9
120.00	66.00	54.00	45.0	39.1	34.8	31.4	28.7	26.4	24.6
126.00	72.00	54.00	38.6	33.5	29.8	26.9	24.5	22.6	21.0
132.00	78.00	54.00	33.3	28.9	25.7	23.1	21.1	19.5	18.1
138.00	84.00	54.00	28.9	25.1	22.3	20.1	18.3	16.9	15.7

IMPACT RATED UP TO WIND ZONE 4 AND HVHZ

CHART #6
Design pressure chart (psf)

Mullion span (in)	Window Height (in)	Transom Height (in)	Tributary width (in)						
			36.00	42.00	48.00	54.00	60.00	66.00	72.00
96.00	36.00	60.00	64.5	57.4	51.9	47.6	44.2	41.3	38.7
102.00	42.00	60.00	59.9	53.3	48.3	44.3	41.2	38.5	36.1
108.00	48.00	60.00	55.9	49.6	44.9	41.3	38.4	36.0	33.8
114.00	54.00	60.00	52.4	45.9	40.8	36.9	33.7	31.1	28.8
120.00	60.00	60.00	45.1	39.2	34.8	31.4	28.7	26.5	24.6
126.00	66.00	60.00	38.8	33.7	29.9	27.0	24.6	22.7	21.1
132.00	72.00	60.00	33.6	29.1	25.8	23.3	21.3	19.6	18.2
138.00	78.00	60.00	29.2	25.3	22.5	20.2	18.4	17.0	15.8
144.00	84.00	60.00	25.5	22.1	19.6	17.7	16.1	-	-

IMPACT RATED UP TO WIND ZONE 4 AND HVHZ

- 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.
 4. TRIBUTARY WINDOW WIDTH (TW) = [WINDOW WIDTH (W1) + WINDOW WIDTH (W2)]/2. SEE FORMULA BELOW.

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

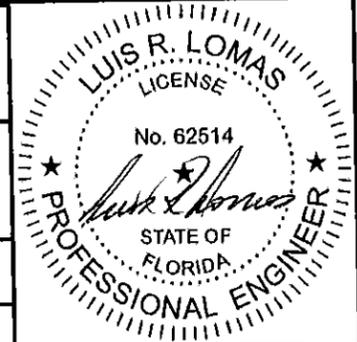
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Miami Dade Product Control
By: *Manuel Perez*

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7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0505
www.windoorinc.com

SERIES 9000 THERMALLY BROKEN 2"X4-1/8"
UNIVERSAL MULLION
VERTICAL TWIN W/TWIN TRANSOM ELEVATION

DRAWN: N.G. DWG NO. 08-02300 REV A
SCALE NTS DATE 03/11/14 SHEET 3 OF 16



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.

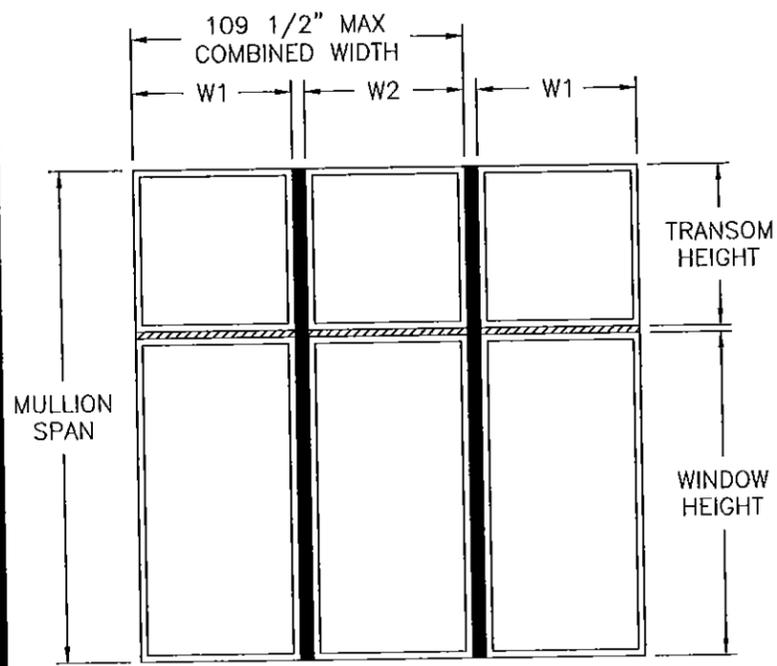


CHART #7

Design pressure chart (psf)

Mullion span (in)	Window Height (in)	Transom Height (in)	Tributary width (in)						
			18.00	24.00	30.00	36.00	42.00	48.00	54.00
54.00	36.00	18.00	120.0	120.0	120.0	120.0	117.7	106.5	97.3
60.00	42.00	18.00	120.0	120.0	120.0	113.7	101.7	92.4	84.6
66.00	48.00	18.00	120.0	120.0	115.7	100.2	89.1	80.9	74.3
72.00	54.00	18.00	120.0	120.0	103.8	89.5	79.3	71.7	65.8
78.00	60.00	18.00	120.0	113.7	94.1	80.9	71.4	64.3	58.9
84.00	66.00	18.00	120.0	104.3	86.0	73.7	64.9	58.4	53.3
90.00	72.00	18.00	120.0	96.3	79.3	67.8	59.6	53.4	48.6
96.00	78.00	18.00	115.7	89.5	73.5	62.7	55.0	49.2	44.7
102.00	84.00	18.00	108.2	83.5	68.5	58.4	51.1	45.7	41.4

IMPACT RATED UP TO WIND ZONE 4 AND HVHZ

CHART #9

Design pressure chart (psf)

Mullion span (in)	Window Height (in)	Transom Height (in)	Tributary width (in)						
			18.00	24.00	30.00	36.00	42.00	48.00	54.00
66.00	36.00	30.00	120.0	120.0	118.4	104.3	93.6	85.0	77.7
72.00	42.00	30.00	120.0	120.0	106.0	92.8	83.2	75.7	69.4
78.00	48.00	30.00	120.0	114.4	95.9	83.5	74.6	67.8	62.3
84.00	54.00	30.00	120.0	104.9	87.5	76.0	67.6	61.2	56.2
90.00	60.00	30.00	120.0	96.8	80.5	69.7	61.8	55.8	51.1
96.00	66.00	30.00	115.7	89.9	74.6	64.3	56.9	51.2	46.8
102.00	72.00	30.00	108.2	83.9	69.4	59.7	52.7	47.4	43.2
108.00	78.00	30.00	101.7	78.6	64.9	55.8	49.1	44.1	40.1
114.00	84.00	30.00	92.4	70.7	57.7	49.1	43.0	38.5	35.0

IMPACT RATED UP TO WIND ZONE 4 AND HVHZ

CHART #8

Design pressure chart (psf)

Mullion span (in)	Window Height (in)	Transom Height (in)	Tributary width (in)						
			18.00	24.00	30.00	36.00	42.00	48.00	54.00
60.00	36.00	24.00	120.0	120.0	120.0	117.1	104.9	95.0	86.8
66.00	42.00	24.00	120.0	120.0	117.7	102.7	91.9	83.5	76.6
72.00	48.00	24.00	120.0	120.0	105.4	91.5	81.5	74.0	68.0
78.00	54.00	24.00	120.0	114.4	95.4	82.5	73.2	66.2	60.8
84.00	60.00	24.00	120.0	104.9	87.2	75.1	66.4	59.9	54.9
90.00	66.00	24.00	120.0	96.8	80.2	69.0	60.8	54.7	50.0
96.00	72.00	24.00	115.7	89.9	74.3	63.7	56.1	50.3	45.9
102.00	78.00	24.00	108.2	83.9	69.2	59.2	52.0	46.6	42.4
108.00	84.00	24.00	101.7	78.6	64.7	55.3	48.5	43.4	39.4

IMPACT RATED UP TO WIND ZONE 4 AND HVHZ

CHART #10

Design pressure chart (psf)

Mullion span (in)	Window Height (in)	Transom Height (in)	Tributary width (in)						
			18.00	24.00	30.00	36.00	42.00	48.00	54.00
72.00	36.00	36.00	120.0	120.0	106.0	93.2	83.9	76.3	69.9
78.00	42.00	36.00	120.0	114.4	95.9	83.9	75.4	68.7	63.1
84.00	48.00	36.00	120.0	104.9	87.5	76.3	68.2	62.1	57.2
90.00	54.00	36.00	120.0	96.8	80.5	69.9	62.3	56.6	52.0
96.00	60.00	36.00	115.7	89.9	74.6	64.5	57.4	51.9	47.6
102.00	66.00	36.00	108.2	83.9	69.4	59.9	53.1	47.9	43.9
108.00	72.00	36.00	101.7	78.6	64.9	55.9	49.5	44.5	40.7
114.00	78.00	36.00	95.8	73.1	59.6	50.6	44.2	39.4	35.7
120.00	84.00	36.00	81.1	61.9	50.4	42.8	37.3	33.3	30.2

IMPACT RATED UP TO WIND ZONE 4 AND HVHZ

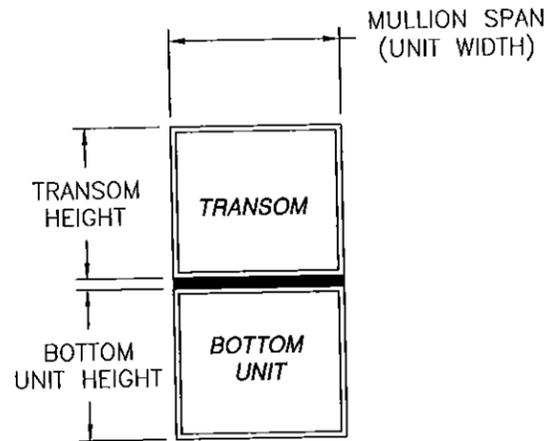
VERTICAL MULLION
 TRIPLE UNITS WITH TRIPLE TRANSOMS
 SEE CHARTS #7, #8, #9 AND #10 FOR RATINGS

- 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.
 4. TRIBUTARY WINDOW WIDTH (TW) = [WINDOW WIDTH (W1) + WINDOW WIDTH (W2)]/2. SEE FORMULA BELOW.

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

Approved as complying with the Florida Building Code Date: 10/22/2015 NOA: 14-0515-12 Miami Dade Product Control By: <i>Manuel Perez</i>	WinDoor INCORPORATED 7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
	SERIES 9000 THERMALLY BROKEN 2"X4-1/8" UNIVERSAL MULLION VERTICAL TRIPLE UNIT W/TRIPLE TRANSOM ELEVATION	
DRAWN: N.G.	DWG NO. 08-02300	REV A
SCALE NTS	DATE 03/11/14	SHEET 4 OF 16

SIGNED: 10/05/2015



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.

CHART 3
48" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (Unit width) (in)							
Bottom	Transom	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
48.0	48.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	157.3
54.0	48.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	153.1
60.0	48.0	175.0	175.0	175.0	175.0	175.0	175.0	173.6	150.3
66.0	48.0	175.0	175.0	175.0	175.0	175.0	175.0	172.8	148.6
72.0	48.0	175.0	175.0	175.0	175.0	175.0	175.0	172.8	148.0
78.0	48.0	175.0	175.0	175.0	175.0	175.0	175.0	172.8	148.0
84.0	48.0	175.0	175.0	175.0	175.0	175.0	175.0	172.8	148.0

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 4
54" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (Unit width) (in)							
Bottom	Transom	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
48.0	54.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	153.1
54.0	54.0	175.0	175.0	175.0	175.0	175.0	175.0	172.1	149.1
60.0	54.0	175.0	175.0	175.0	175.0	175.0	175.0	169.9	146.4
66.0	54.0	175.0	175.0	175.0	175.0	175.0	175.0	169.2	144.8
72.0	54.0	175.0	175.0	175.0	175.0	175.0	175.0	169.2	144.3
78.0	54.0	175.0	175.0	175.0	175.0	175.0	175.0	169.2	144.3
84.0	54.0	175.0	175.0	175.0	175.0	175.0	175.0	169.2	144.3

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
 2. DETERMINE MULLION SPAN BASED ON PRODUCT TO BE INSTALLED.
 3. TO DETERMINE MULLION RATING LOCATE MULLION SPAN COLUMN AND BOTTOM UNIT HEIGHT ROW. RATING FOR MULLION IS LOCATED AT INTERSECTION OF COLUMN (MULLION SPAN) AND ROW (BOTTOM UNIT HEIGHT).
 4. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.
 5. IF TRANSOM TO BE INSTALLED IS NOT LISTED IN THESE CHARTS GO TO NEXT HIGHER TRANSOM CHART. FOR EXAMPLE IF TRANSOM TO BE INSTALLED IS 20" HIGH THEN USE CHART FOR 24" TRANSOM.
 6. WINDOW/DOOR AND TRANSOMS TO BE ANCHORED ON ALL FOUR SIDES.

CHART 1
36" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (Unit width) (in)							
Bottom	Transom	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
48.0	36.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	170.6
54.0	36.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	165.7
60.0	36.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	162.4
66.0	36.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	160.4
72.0	36.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	159.8
78.0	36.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	159.8
84.0	36.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	159.8

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 5
60" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (Unit width) (in)							
Bottom	Transom	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
48.0	60.0	175.0	175.0	175.0	175.0	175.0	175.0	173.6	150.3
54.0	60.0	175.0	175.0	175.0	175.0	175.0	175.0	169.9	146.4
60.0	60.0	175.0	175.0	175.0	175.0	175.0	175.0	167.8	143.8
66.0	60.0	175.0	175.0	175.0	175.0	175.0	175.0	167.1	142.3
72.0	60.0	175.0	175.0	175.0	175.0	175.0	175.0	167.1	141.8
78.0	60.0	175.0	175.0	175.0	175.0	175.0	175.0	167.1	141.8
84.0	60.0	175.0	175.0	175.0	175.0	175.0	175.0	167.1	141.8

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 2
42" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (Unit width) (in)							
Bottom	Transom	30.0	36.0	42.0	48.0	54.0	60.0	66.0	72.0
48.0	42.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	163.0
54.0	42.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	158.5
60.0	42.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	155.5
66.0	42.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	153.7
72.0	42.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	153.1
78.0	42.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	153.1
84.0	42.0	175.0	175.0	175.0	175.0	175.0	175.0	175.0	153.1

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

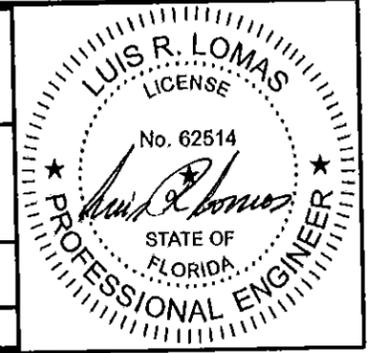
SIGNED: 10/05/2015

Approved as complying with the Florida Building Code
Date: 10/23/2015
NOA: 14-0515-12
Miami Dade Product Control
By: Manuel Perez

WinDoor 7500 AMSTERDAM DRIVE
INCORPORATED ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0305 www.windoorinc.com

SERIES 9000 THERMALLY BROKEN 2"X4-1/8"
UNIVERSAL MULLION
HORIZONTAL SINGLE UNIT WITH TRANSOM

DRAWN: N.G. DWG NO. 08-02300 REV A
SCALE NTS DATE 08/15/13 SHEET 5 OF 16



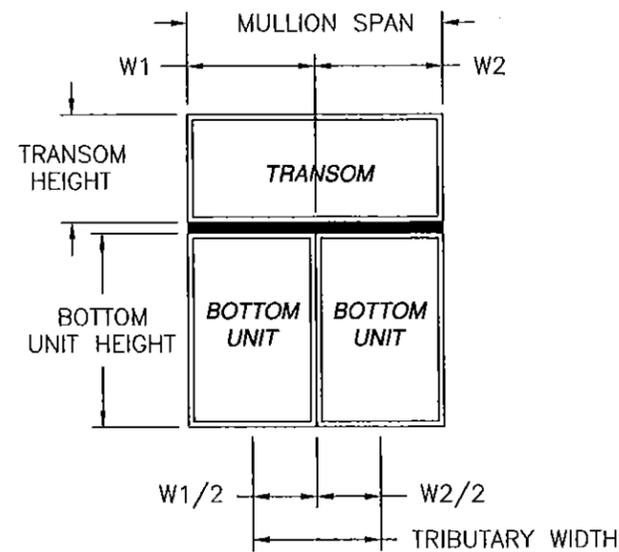


CHART 6
36" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (in)						
		72.00	84.00	96.00	108.00	120.00	132.00	144.00
Tributary width (in)								
Window	Transom	36.00	42.00	48.00	54.00	60.00	66.00	72.00
48.00	36.00	167.8	123.1	80.9	56.0	40.3	30.0	23.0
54.00	36.00	159.4	115.9	76.3	52.8	38.0	28.2	21.6
60.00	36.00	149.1	108.6	72.2	50.0	35.9	26.7	20.4
66.00	36.00	140.1	102.1	68.5	47.4	34.2	25.4	19.3
72.00	36.00	132.1	96.3	65.2	45.2	32.5	24.2	18.4
78.00	36.00	124.9	91.1	62.1	43.1	31.1	23.1	17.6
84.00	36.00	118.5	86.5	59.4	41.2	29.7	22.1	16.9

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 7
42" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (in)						
		72.00	84.00	96.00	108.00	120.00	132.00	144.00
Tributary width (in)								
Window	Transom	36.00	42.00	48.00	54.00	60.00	66.00	72.00
48.00	42.00	160.4	116.4	76.2	52.6	37.9	28.2	21.5
54.00	42.00	152.0	110.0	72.1	49.8	35.8	26.6	20.3
60.00	42.00	142.6	103.4	68.5	47.3	34.0	25.2	19.3
66.00	42.00	134.3	97.5	65.1	45.0	32.4	24.0	18.3
72.00	42.00	126.9	92.2	62.1	43.0	30.9	23.0	17.5
78.00	42.00	120.3	87.4	59.4	41.1	29.6	22.0	16.8
84.00	42.00	114.4	83.2	56.9	39.4	28.4	21.1	16.1

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 8
48" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (in)						
		72.00	84.00	96.00	108.00	120.00	132.00	144.00
Tributary width (in)								
Window	Transom	36.00	42.00	48.00	54.00	60.00	66.00	72.00
48.00	48.00	154.9	110.9	72.4	49.9	35.8	26.6	20.3
54.00	48.00	146.1	105.1	68.7	47.3	34.0	25.2	19.2
60.00	48.00	137.4	99.1	65.4	45.0	32.3	24.0	18.3
66.00	48.00	129.7	93.7	62.3	43.0	30.9	22.9	17.4
72.00	48.00	122.8	88.8	59.6	41.1	29.5	21.9	16.7
78.00	48.00	116.6	84.3	57.0	39.4	28.3	21.0	16.0
84.00	48.00	111.0	80.4	54.7	37.8	27.2	20.2	15.4

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 9
54" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (in)						
		72.00	84.00	96.00	108.00	120.00	132.00	144.00
Tributary width (in)								
Window	Transom	36.00	42.00	48.00	54.00	60.00	66.00	72.00
48.00	54.00	150.8	106.6	69.2	47.5	34.1	25.3	19.3
54.00	54.00	141.7	101.2	65.8	45.2	32.4	24.0	18.3
60.00	54.00	133.5	95.6	62.8	43.1	30.9	22.9	17.4
66.00	54.00	126.2	90.5	60.0	41.2	29.6	21.9	16.7
72.00	54.00	119.7	85.9	57.4	39.5	28.3	21.0	16.0
78.00	54.00	113.8	81.8	55.0	37.9	27.2	20.2	15.4
84.00	54.00	108.4	78.0	52.9	36.5	26.2	19.4	14.8

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.

CHART 10
60" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (in)						
		72.00	84.00	96.00	108.00	120.00	132.00	144.00
Tributary width (in)								
Window	Transom	36.00	42.00	48.00	54.00	60.00	66.00	72.00
48.00	60.00	147.3	103.3	66.7	45.6	32.6	24.1	18.4
54.00	60.00	138.5	98.1	63.5	43.4	31.0	23.0	17.5
60.00	60.00	130.7	92.8	60.6	41.5	29.7	21.9	16.7
66.00	60.00	123.7	88.0	58.0	39.8	28.4	21.0	16.0
72.00	60.00	117.4	83.6	55.6	38.2	27.3	20.2	15.3
78.00	60.00	111.7	79.7	53.4	36.7	26.3	19.4	14.8
84.00	60.00	106.6	76.1	51.3	35.3	25.3	18.7	14.2

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

DESIGN PRESSURE TABLE INSTRUCTIONS:

1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2. DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
3. TO DETERMINE MULLION RATING LOCATE COLUMN FOR MULLION SPAN AND TRIBUTARY WIDTH THEN LOCATE CORRESPONDING ROW FOR BOTTOM AND TRANSOM HEIGHTS. FIND THE INTERSECTION OF THIS COLUMN AND ROW. MULLION RATING IS LOCATED AT THIS INTERSECTION.
4. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.
5. IF TRANSOM TO BE INSTALLED IS NOT LISTED IN THESE CHARTS GO TO NEXT HIGHER TRANSOM CHART. FOR EXAMPLE IF TRANSOM TO BE INSTALLED IS 20" HIGH THEN USE CHART FOR 24" TRANSOM.
6. WINDOW/DOOR AND TRANSOMS TO BE ANCHORED ON ALL FOUR SIDES.
7. TRIBUTARY WINDOW WIDTH (TW) = [WINDOW WIDTH (W1) + WINDOW WIDTH (W2)]/2. SEE FORMULA BELOW.

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

SIGNED: 10/05/2015

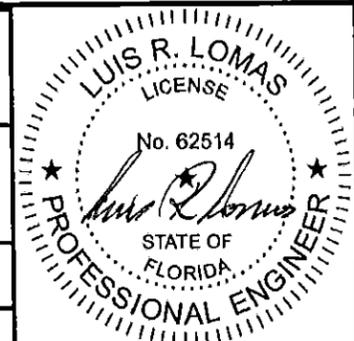
Approved as complying with the
Florida Building Code
Date 10/22/2015
NOA 14-0515-12
Miami Code Product Control
By Manuel Juez

WinDoor
INCORPORATED

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SERIES 9000 THERMALLY BROKEN 2"X4-1/8"
UNIVERSAL MULLION
HORIZONTAL TWIN UNIT WITH TRANSOM

DRAWN: N.G.	DWG NO. 08-02300	REV A
SCALE NTS	DATE 03/11/14	SHEET 6 OF 16



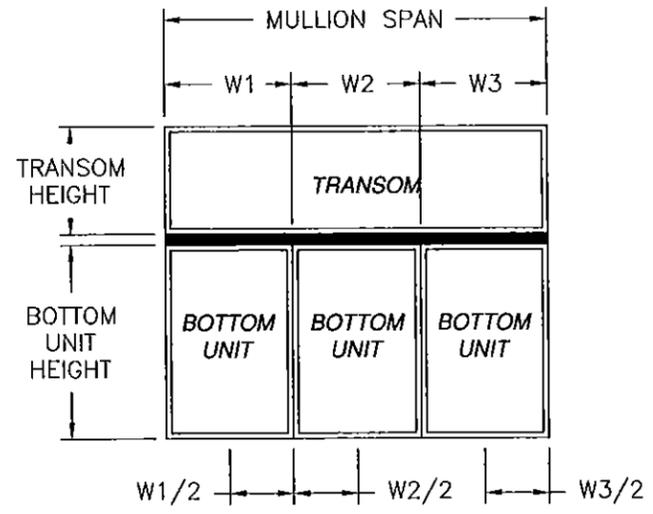


CHART 11
36" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (in)				
		72.00	84.00	96.00	108.00	120.00
Bottom unit	Transom	Tributary width (in)				
		24.00	28.00	32.00	36.00	40.00
48.00	36.00	159.8	121.7	80.7	56.2	40.7
54.00	36.00	150.3	113.9	75.5	52.6	38.1
60.00	36.00	141.8	107.0	71.0	49.5	35.8
66.00	36.00	134.2	100.8	66.9	46.7	33.8
72.00	36.00	127.4	95.4	63.3	44.2	32.0
78.00	36.00	121.3	90.5	60.1	42.0	30.4
84.00	36.00	115.7	86.1	57.2	39.9	29.0

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 12
42" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (in)				
		72.00	84.00	96.00	108.00	120.00
Bottom unit	Transom	Tributary width (in)				
		24.00	28.00	32.00	36.00	40.00
48.00	42.00	153.1	115.2	76.0	52.8	38.2
54.00	42.00	144.3	108.1	71.4	49.7	35.9
60.00	42.00	136.5	101.9	67.4	46.9	33.9
66.00	42.00	129.5	96.3	63.7	44.4	32.1
72.00	42.00	123.1	91.3	60.5	42.1	30.5
78.00	42.00	117.4	86.8	57.5	40.1	29.0
84.00	42.00	112.2	82.7	54.9	38.2	27.7

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 13
48" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (in)				
		72.00	84.00	96.00	108.00	120.00
Bottom unit	Transom	Tributary width (in)				
		24.00	28.00	32.00	36.00	40.00
48.00	48.00	148.0	109.9	72.2	50.0	36.1
54.00	48.00	139.8	103.4	68.1	47.2	34.1
60.00	48.00	132.5	97.7	64.4	44.6	32.2
66.00	48.00	125.8	92.6	61.0	42.4	30.6
72.00	48.00	119.8	87.9	58.0	40.3	29.1
78.00	48.00	114.4	83.8	55.3	38.4	27.8
84.00	48.00	109.4	80.0	52.8	36.7	26.6

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 14
54" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (in)				
		72.00	84.00	96.00	108.00	120.00
Bottom unit	Transom	Tributary width (in)				
		24.00	28.00	32.00	36.00	40.00
48.00	54.00	144.3	105.6	69.1	47.7	34.3
54.00	54.00	136.5	99.7	65.3	45.1	32.5
60.00	54.00	129.5	94.3	61.8	42.8	30.8
66.00	54.00	123.1	89.5	58.8	40.7	29.3
72.00	54.00	117.4	85.2	56.0	38.8	28.0
78.00	54.00	112.2	81.3	53.4	37.0	26.7
84.00	54.00	107.4	77.7	51.1	35.5	25.6

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.

CHART 15
60" TRANSOM

Maximum design pressure capacity chart (psf)

Height (in)		Mullion Span (in)				
		72.00	84.00	96.00	108.00	120.00
Bottom unit	Transom	Tributary width (in)				
		24.00	28.00	32.00	36.00	40.00
48.00	60.00	141.8	102.3	66.5	45.7	32.8
54.00	60.00	134.2	96.7	63.0	43.3	31.1
60.00	60.00	127.4	91.7	59.8	41.2	29.6
66.00	60.00	121.3	87.1	56.9	39.2	28.2
72.00	60.00	115.7	83.0	54.3	37.5	26.9
78.00	60.00	110.6	79.3	51.9	35.8	25.8
84.00	60.00	106.0	75.9	49.7	34.4	24.7

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
 2. DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
 3. TO DETERMINE MULLION RATING LOCATE COLUMN FOR MULLION SPAN AND TRIBUTARY WIDTH THEN LOCATE CORRESPONDING ROW FOR BOTTOM AND TRANSOM HEIGHTS. FIND THE INTERSECTION OF THIS COLUMN AND ROW. MULLION RATING IS LOCATED AT THIS INTERSECTION.
 4. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.
 5. IF TRANSOM TO BE INSTALLED IS NOT LISTED IN THESE CHARTS GO TO NEXT HIGHER TRANSOM CHART. FOR EXAMPLE IF TRANSOM TO BE INSTALLED IS 20" HIGH THEN USE CHART FOR 24" TRANSOM.
 6. WINDOW/DOOR AND TRANSOMS TO BE ANCHORED ON ALL FOUR SIDES.
 7. TRIBUTARY WINDOW WIDTH (TW) = [WINDOW WIDTH (W1) + WINDOW WIDTH (W2) + WINDOW WIDTH (W3)]/3. SEE FORMULA BELOW.

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2 + W3}{3}$$

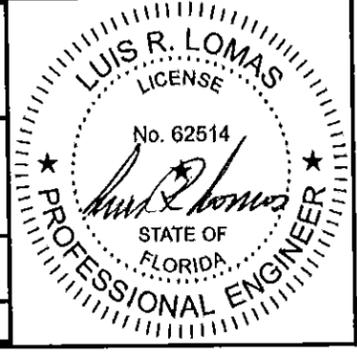
SIGNED: 10/05/2015

Approved as complying with the Florida Building Code
Date 10/23/2015
NOA 14-0515-12
Miami Dade Product Control
By *Manuel Perez*

WinDoor INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.481.8400
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SERIES 9000 THERMALLY BROKEN 2"X4-1/8"
UNIVERSAL MULLION
HORIZONTAL TRIPLE UNIT WITH TRANSOM

DRAWN: N.G. DWG NO. 08-02300 REV A
SCALE NTS DATE 03/11/14 SHEET 7 OF 16



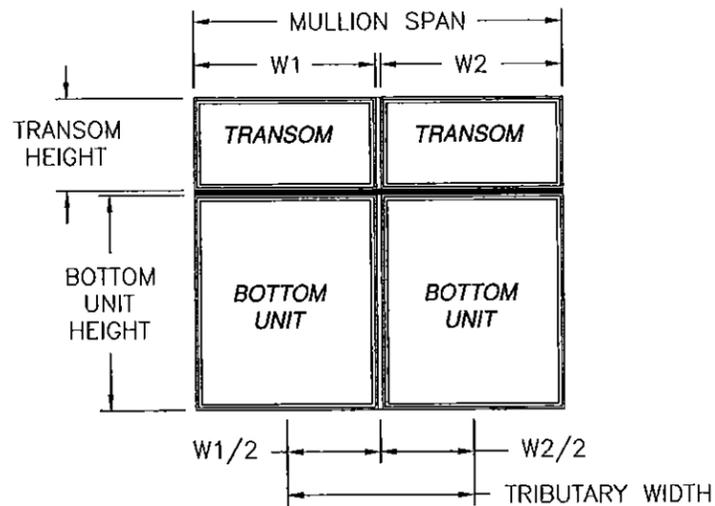


CHART 16
36" TRANSOM

Height (in)		Total Unit and Tributary width (in)						
		72.0	84.0	96.0	108.0	120.0	132.0	144.0
Window	Transom	36.0	42.0	48.0	54.0	60.0	66.0	72.0
36.0	36.0	150.0	137.4	90.6	62.8	45.3	33.8	25.9
42.0	36.0	150.0	128.4	84.5	58.5	42.2	31.4	24.0
48.0	36.0	150.0	120.6	79.3	54.9	39.5	29.4	22.5
54.0	36.0	150.0	113.2	74.9	51.8	37.3	27.7	21.1
60.0	36.0	144.4	106.1	71.0	49.1	35.3	26.2	20.0
66.0	36.0	135.9	99.9	67.4	46.7	33.6	24.9	19.0
72.0	36.0	128.4	94.3	64.2	44.5	32.0	23.8	18.1
78.0	36.0	121.6	89.4	61.2	42.5	30.6	22.7	17.3
84.0	36.0	115.6	84.9	58.6	40.6	29.3	21.8	16.6

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 17
42" TRANSOM

Height (in)		Total Unit and Tributary width (in)						
		72.0	84.0	96.0	108.0	120.0	132.0	144.0
Window	Transom	36.0	42.0	48.0	54.0	60.0	66.0	72.0
36.0	42.0	150.0	128.4	84.5	58.5	42.2	31.4	24.0
42.0	42.0	150.0	120.4	79.1	54.7	39.4	29.4	22.4
48.0	42.0	150.0	113.2	74.6	51.6	37.1	27.6	21.1
54.0	42.0	144.4	106.1	70.7	48.8	35.1	26.1	19.9
60.0	42.0	135.9	99.9	67.1	46.4	33.4	24.8	18.9
66.0	42.0	128.4	94.3	63.9	44.2	31.8	23.6	18.0
72.0	42.0	121.6	89.4	61.0	42.3	30.4	22.6	17.2
78.0	42.0	115.6	84.9	58.4	40.4	29.1	21.6	16.5
84.0	42.0	110.1	80.9	55.9	38.8	27.9	20.8	15.8

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 18
48" TRANSOM

Height (in)		Total Unit and Tributary width (in)						
		72.0	84.0	96.0	108.0	120.0	132.0	144.0
Window	Transom	36.0	42.0	48.0	54.0	60.0	66.0	72.0
36.0	48.0	150.0	120.6	79.3	54.9	39.5	29.4	22.5
42.0	48.0	150.0	113.2	74.6	51.6	37.1	27.6	21.1
48.0	48.0	144.4	106.1	70.8	48.7	35.0	26.0	19.9
54.0	48.0	135.9	99.9	67.1	46.3	33.2	24.7	18.8
60.0	48.0	128.4	94.3	63.9	44.1	31.7	23.5	17.9
66.0	48.0	121.6	89.4	61.0	42.1	30.3	22.5	17.1
72.0	48.0	115.6	84.9	58.3	40.3	29.0	21.5	16.4
78.0	48.0	110.1	80.9	55.9	38.7	27.8	20.7	15.7
84.0	48.0	105.1	77.2	53.7	37.2	26.7	19.9	15.1

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 19
54" TRANSOM

Height (in)		Total Unit and Tributary width (in)						
		72.0	84.0	96.0	108.0	120.0	132.0	144.0
Window	Transom	36.0	42.0	48.0	54.0	60.0	66.0	72.0
36.0	54.0	150.0	113.2	74.9	51.8	37.3	27.7	21.1
42.0	54.0	144.4	106.1	70.7	48.8	35.1	26.1	19.9
48.0	54.0	135.9	99.9	67.1	46.3	33.2	24.7	18.8
54.0	54.0	128.4	94.3	63.9	44.1	31.8	23.5	17.9
60.0	54.0	121.6	89.4	61.0	42.1	30.2	22.4	17.1
66.0	54.0	115.6	84.9	58.3	40.3	28.9	21.4	16.3
72.0	54.0	110.1	80.9	55.9	38.7	27.8	20.6	15.7
78.0	54.0	105.1	77.2	53.7	37.1	26.7	19.8	15.1
84.0	54.0	100.5	73.8	51.6	35.7	25.7	19.1	-

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.

CHART 20
60" TRANSOM

Height (in)		Total Unit and Tributary width (in)						
		72.0	84.0	96.0	108.0	120.0	132.0	144.0
Window	Transom	36.0	42.0	48.0	54.0	60.0	66.0	72.0
36.0	60.0	144.4	106.1	71.0	49.1	35.3	26.2	20.0
42.0	60.0	135.9	99.9	67.1	46.4	33.4	24.8	18.9
48.0	60.0	128.4	94.3	63.9	44.1	31.7	23.5	17.9
54.0	60.0	121.6	89.4	61.0	42.1	30.2	22.4	17.1
60.0	60.0	115.6	84.9	58.3	40.3	28.9	21.4	16.3
66.0	60.0	110.1	80.9	55.9	38.7	27.7	20.6	15.6
72.0	60.0	105.1	77.2	53.7	37.1	26.7	19.8	15.0
78.0	60.0	100.5	73.8	51.6	35.7	25.7	19.0	-
84.0	60.0	96.3	70.7	49.7	34.4	24.7	18.4	-

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

DESIGN PRESSURE TABLE INSTRUCTIONS:

1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2. DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
3. TO DETERMINE MULLION RATING LOCATE COLUMN FOR MULLION SPAN AND TRIBUTARY WIDTH THEN LOCATE CORRESPONDING ROW FOR BOTTOM AND TRANSOM HEIGHTS. FIND THE INTERSECTION OF THIS COLUMN AND ROW. MULLION RATING IS LOCATED AT THIS INTERSECTION.
4. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.
5. IF TRANSOM TO BE INSTALLED IS NOT LISTED IN THESE CHARTS GO TO NEXT HIGHER TRANSOM CHART. FOR EXAMPLE IF TRANSOM TO BE INSTALLED IS 20" HIGH THEN USE CHART FOR 24" TRANSOM.
6. WINDOW/DOOR AND TRANSOMS TO BE ANCHORED ON ALL FOUR SIDES.
7. TRIBUTARY WINDOW WIDTH (TW) = [WINDOW WIDTH (W1) + WINDOW WIDTH (W2)]/2. SEE FORMULA BELOW.

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

Approved as complying with the Florida Building Code
Date 10/22/15
NOA# 14-0545-12
Miami Dade Product Control
By Manuel Proez

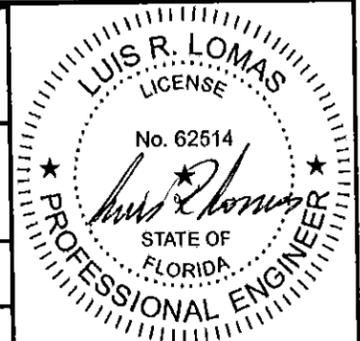
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SERIES 9000 THERMALLY BROKEN 2"X4-1/8"
UNIVERSAL MULLION
HORIZONTAL TWIN UNIT WITH TWIN TRANSOM

DRAWN: N.G. DWG NO. 08-02300 REV A
SCALE NTS DATE 03/11/14 SHEET 8 OF 16

SIGNED: 10/05/2015



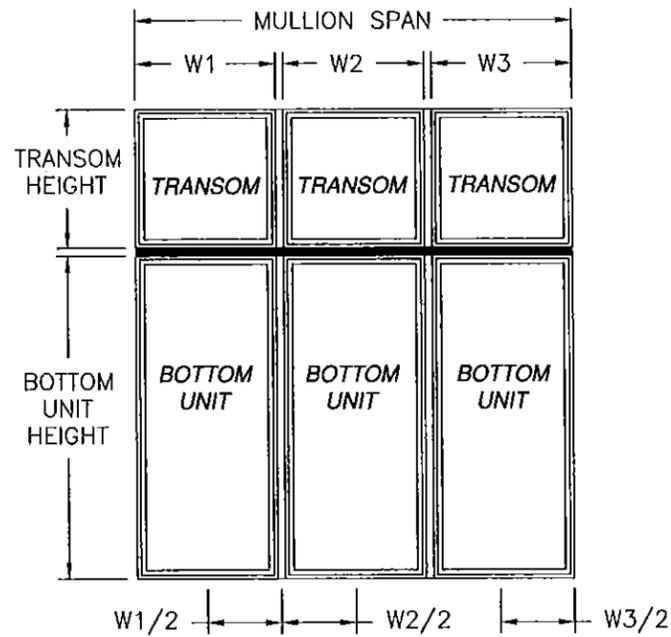


CHART 21
18" TRANSOM

		Design pressure (psf)					
Height (in)		Total Unit and Tributary width (in)					
		72.0	90.0	108.0	126.0	144.0	162.0
Window	Transom	24.0	30.0	36.0	42.0	48.0	54.0
36.0	18.0	150.0	147.8	84.6	52.9	35.2	24.6
42.0	18.0	150.0	134.0	76.8	48.0	31.9	22.3
48.0	18.0	150.0	122.5	70.3	43.9	29.2	20.4
54.0	18.0	150.0	112.9	64.8	40.5	27.0	18.8
60.0	18.0	150.0	104.6	60.1	37.6	25.0	17.5
66.0	18.0	150.0	97.5	56.0	35.1	23.4	16.3
72.0	18.0	150.0	91.3	52.5	32.9	21.9	15.3
78.0	18.0	150.0	85.8	49.4	30.9	20.6	-
84.0	18.0	144.7	81.0	46.6	29.2	19.5	-

CHART 22
24" TRANSOM

		Design pressure (psf)					
Height (in)		Total Unit and Tributary width (in)					
		72.0	90.0	108.0	126.0	144.0	162.0
Window	Transom	24.0	30.0	36.0	42.0	48.0	54.0
36.0	24.0	150.0	133.4	76.4	47.7	31.7	22.2
42.0	24.0	150.0	122.0	69.9	43.6	29.0	20.3
48.0	24.0	150.0	112.5	64.5	40.3	26.8	18.7
54.0	24.0	150.0	104.3	59.8	37.4	24.9	17.4
60.0	24.0	150.0	97.2	55.8	34.9	23.2	16.2
66.0	24.0	150.0	91.0	52.3	32.7	21.8	15.2
72.0	24.0	150.0	85.6	49.2	30.8	20.5	-
78.0	24.0	144.4	80.8	46.4	29.1	19.4	-
84.0	24.0	136.8	76.5	44.0	27.5	18.4	-

CHART 23
30" TRANSOM

		Design pressure (psf)					
Height (in)		Total Unit and Tributary width (in)					
		72.0	90.0	108.0	126.0	144.0	162.0
Window	Transom	24.0	30.0	36.0	42.0	48.0	54.0
36.0	30.0	150.0	121.9	69.7	43.5	28.9	20.2
42.0	30.0	150.0	112.3	64.3	40.1	26.7	18.6
48.0	30.0	150.0	104.2	59.7	37.3	24.8	17.3
54.0	30.0	150.0	97.1	55.7	34.8	23.1	16.1
60.0	30.0	150.0	90.9	52.2	32.6	21.7	15.1
66.0	30.0	150.0	85.5	49.1	30.7	20.4	-
72.0	30.0	144.4	80.7	46.3	29.0	19.3	-
78.0	30.0	136.8	76.4	43.9	27.5	18.3	-
84.0	30.0	130.0	72.5	41.7	26.1	17.4	-

CHART 24
36" TRANSOM

		Design pressure (psf)					
Height (in)		Total Unit and Tributary width (in)					
		72.0	90.0	108.0	126.0	144.0	162.0
Window	Transom	24.0	30.0	36.0	42.0	48.0	54.0
36.0	36.0	150.0	112.3	64.2	40.0	26.6	18.6
42.0	36.0	150.0	104.2	59.6	37.2	24.7	17.2
48.0	36.0	150.0	97.1	55.6	34.7	23.1	16.1
54.0	36.0	150.0	90.9	52.1	32.5	21.6	15.1
60.0	36.0	150.0	85.5	49.0	30.6	20.4	-
66.0	36.0	144.4	80.7	46.3	28.9	19.2	-
72.0	36.0	136.8	76.4	43.9	27.4	18.2	-
78.0	36.0	130.0	72.5	41.7	26.0	17.3	-
84.0	36.0	123.8	69.0	39.7	24.8	16.5	-

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.

DESIGN PRESSURE TABLE INSTRUCTIONS:

1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2. DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
3. TO DETERMINE MULLION RATING LOCATE COLUMN FOR MULLION SPAN AND TRIBUTARY WIDTH THEN LOCATE CORRESPONDING ROW FOR BOTTOM AND TRANSOM HEIGHTS. FIND THE INTERSECTION OF THIS COLUMN AND ROW. MULLION RATING IS LOCATED AT THIS INTERSECTION.
4. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.
5. IF TRANSOM TO BE INSTALLED IS NOT LISTED IN THESE CHARTS GO TO NEXT HIGHER TRANSOM CHART. FOR EXAMPLE IF TRANSOM TO BE INSTALLED IS 20" HIGH THEN USE CHART FOR 24" TRANSOM.
6. WINDOW/DOOR AND TRANSOMS TO BE ANCHORED ON ALL FOUR SIDES.
7. TRIBUTARY WINDOW WIDTH (TW)= [WINDOW WIDTH (W1) + WINDOW WIDTH (W2) + WINDOW WIDTH (W3)]/3. SEE FORMULA BELOW.

$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2 + W3}{3}$$

SIGNED: 10/05/2015

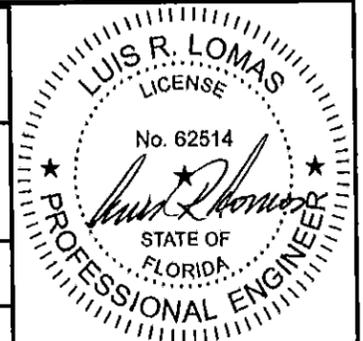
Approved as complying with the Florida Building Code
Date 10/22/2015
NOA 14-0515-12
Miami Dade Product Control
By *Manuel Frey*

WinDoor
INCORPORATED

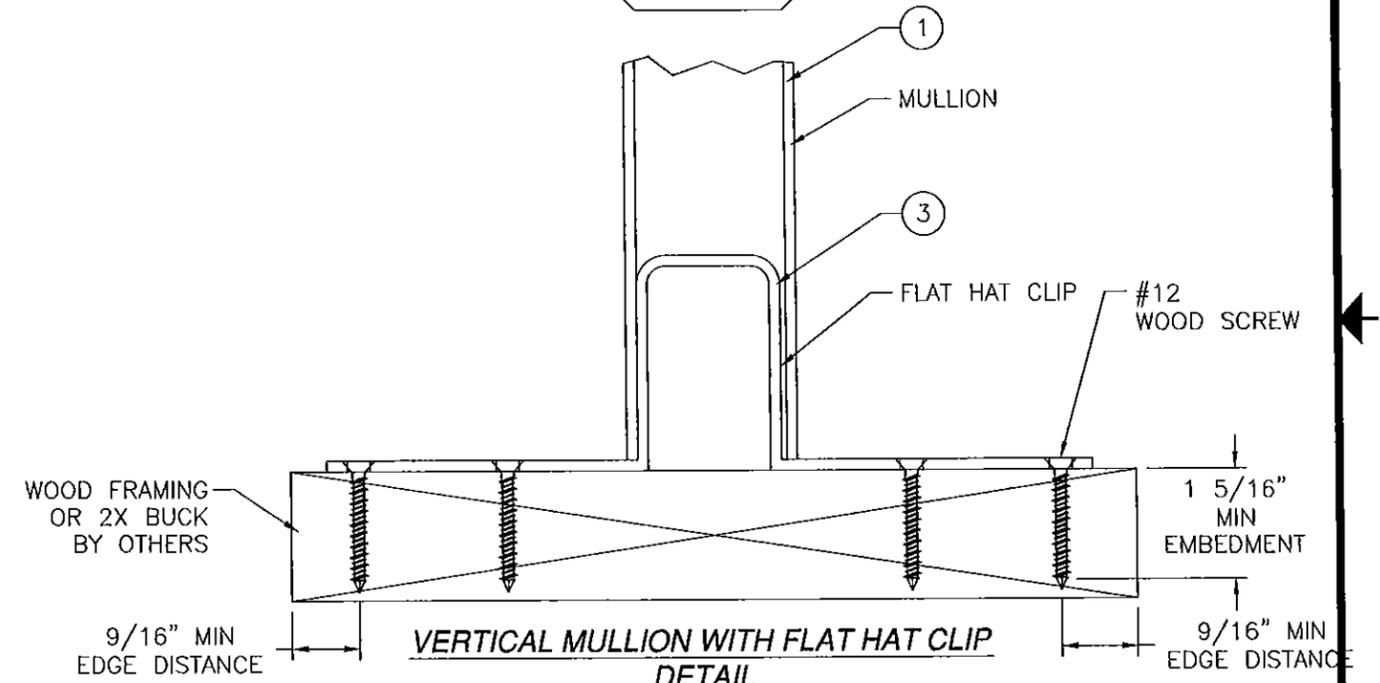
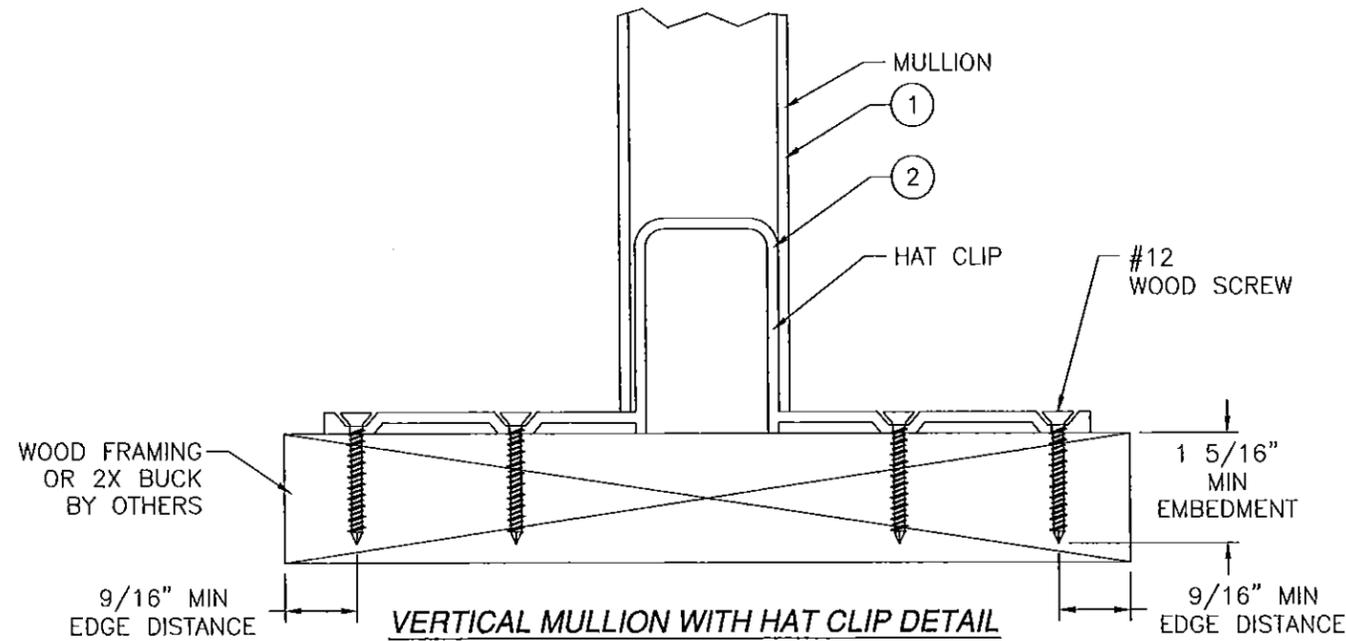
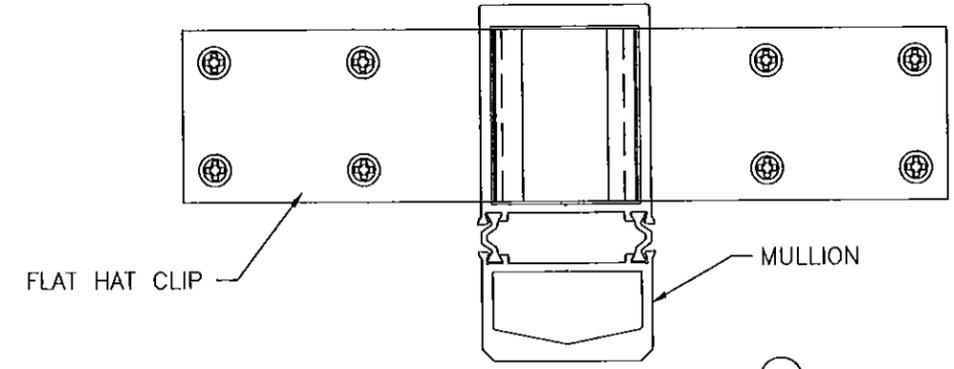
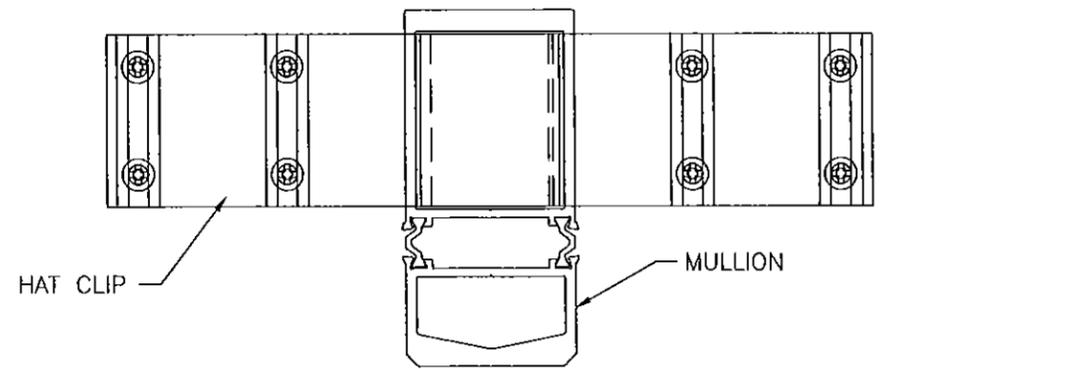
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SERIES 9000 THERMALLY BROKEN 2"X4-1/8"
UNIVERSAL MULLION
HORIZONTAL TRIPLE UNIT WITH TRIPLE TRANSOM

DRAWN: N.G. DWG NO. 08-02300 REV A
SCALE NTS DATE 03/11/14 SHEET 9 OF 16



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.



VERTICAL MULLION WITH HAT CLIP DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION
SILL SHOWN HEAD SIMILAR
HORIZONTAL MULLION SIMILAR

VERTICAL MULLION WITH FLAT HAT CLIP DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION
SILL SHOWN HEAD SIMILAR
HORIZONTAL MULLION SIMILAR

SIGNED: 10/05/2015

Approved as complying with the
Florida Building Code
Date 10/22/2015
NOA 14-0515.12
Miami Dade Product Control
By Manuel Perez

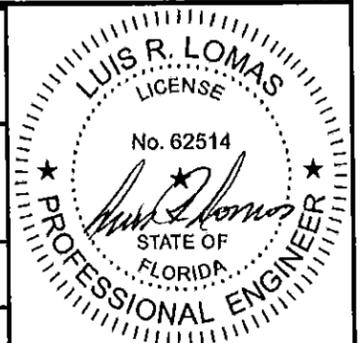
WinDoor
INCORPORATED

7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0503
www.windoorinc.com

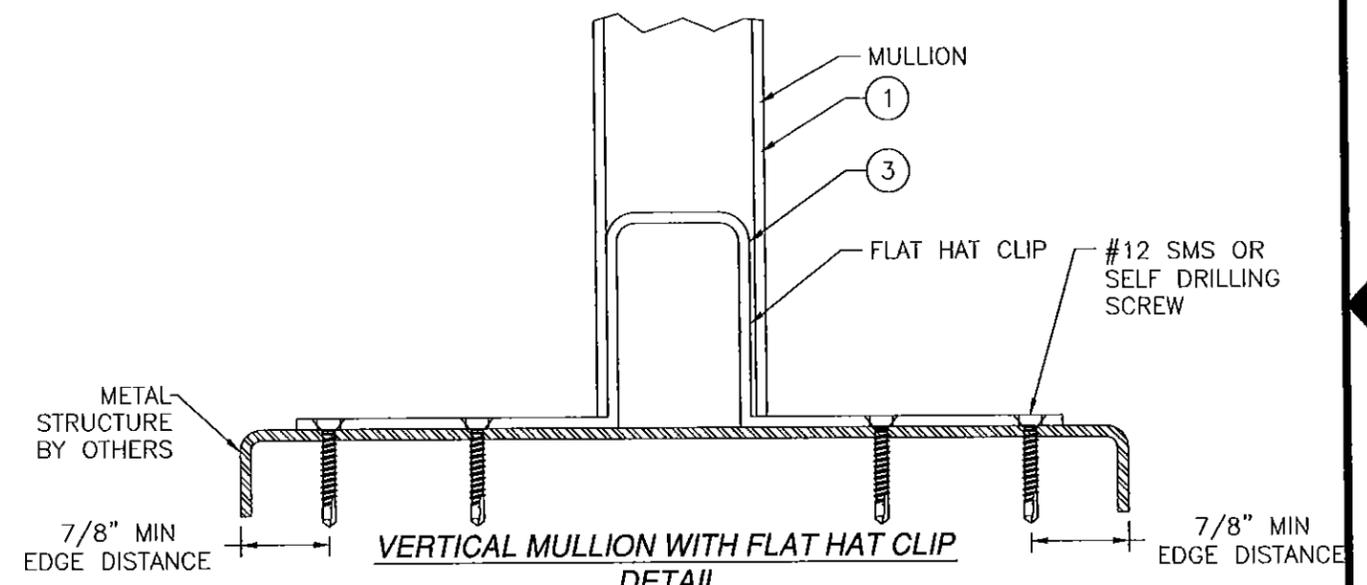
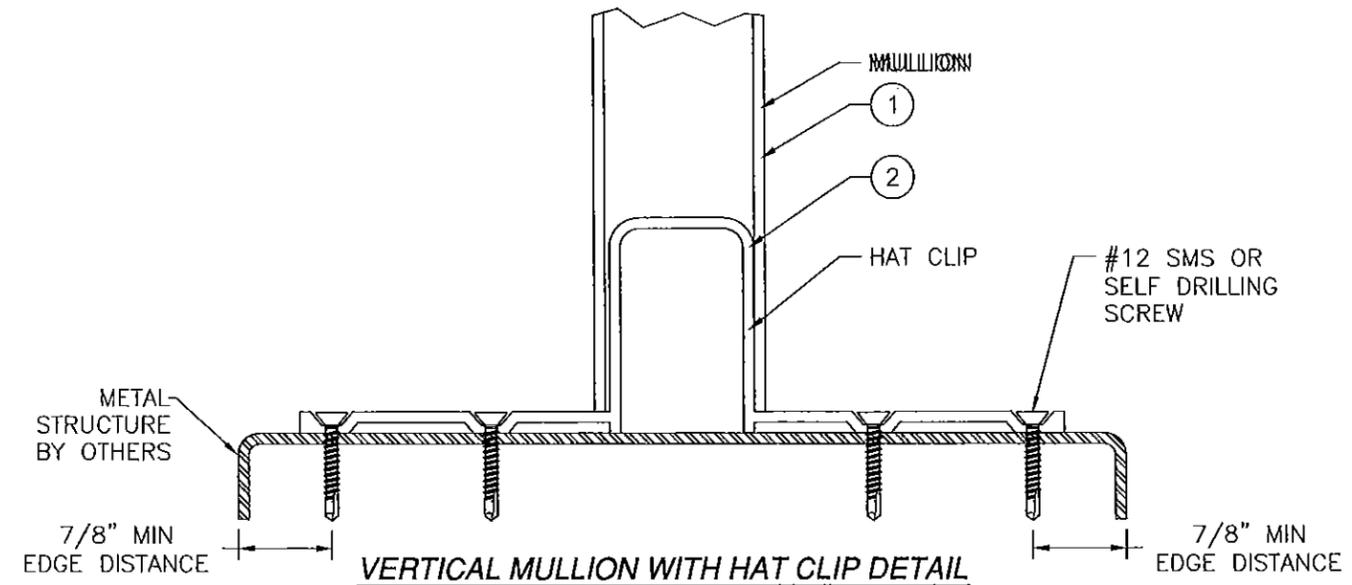
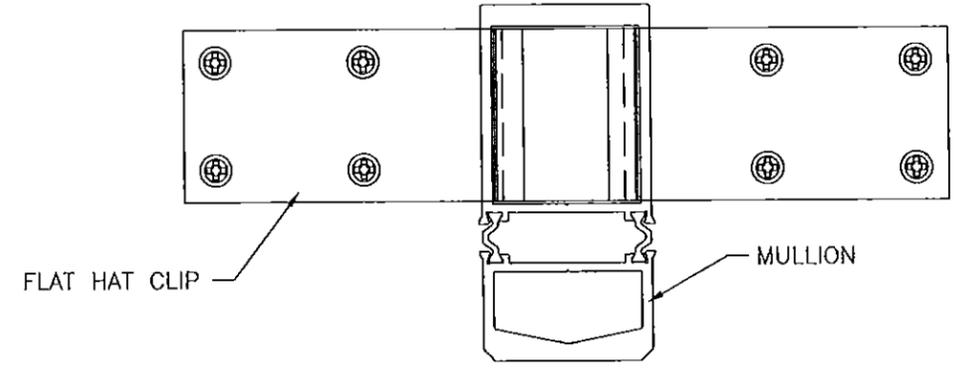
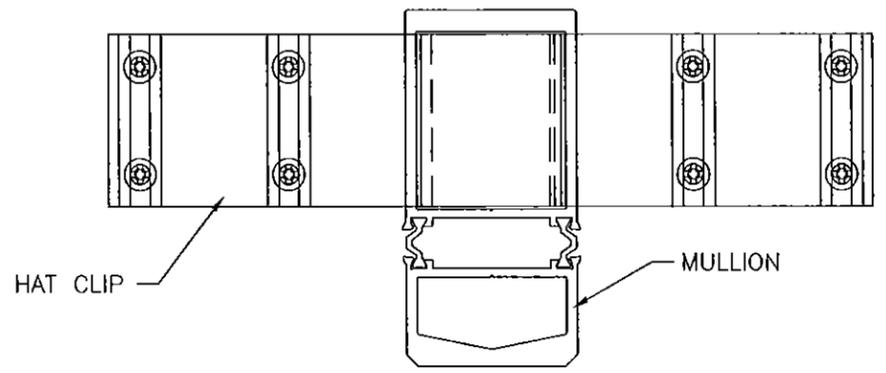
SERIES 9000 THERMALLY BROKEN 2"x4-1/8"
UNIVERSAL MULLION
VERTICAL INSTALLATION DETAILS

DRAWN: N.G. DWG NO. 08-02300 REV A

SCALE NTS DATE 03/11/14 SHEET 10 OF 16



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.



VERTICAL MULLION WITH HAT CLIP DETAIL
 METAL STRUCTURE INSTALLATION
 SILL SHOWN HEAD SIMILAR
 HORIZONTAL MULLION SIMILAR

VERTICAL MULLION WITH FLAT HAT CLIP DETAIL
 METAL STRUCTURE INSTALLATION
 SILL SHOWN HEAD SIMILAR
 HORIZONTAL MULLION SIMILAR

SIGNED: 10/05/2015

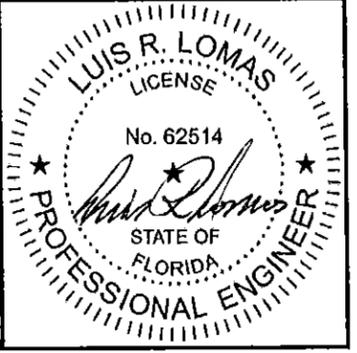
Approved as complying with the
 Florida Building Code
 Date 10/22/2015
 NOA 14-0575.12
 Miami Dade Product Control

By _____

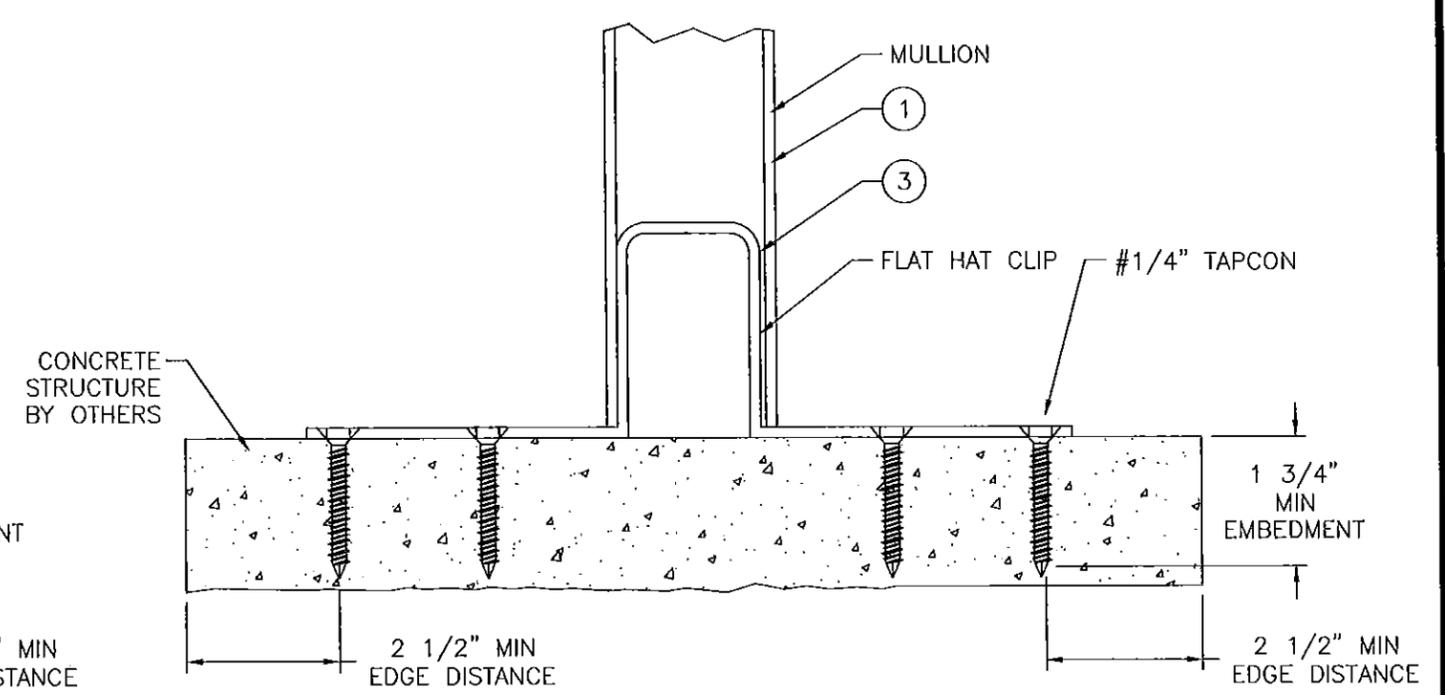
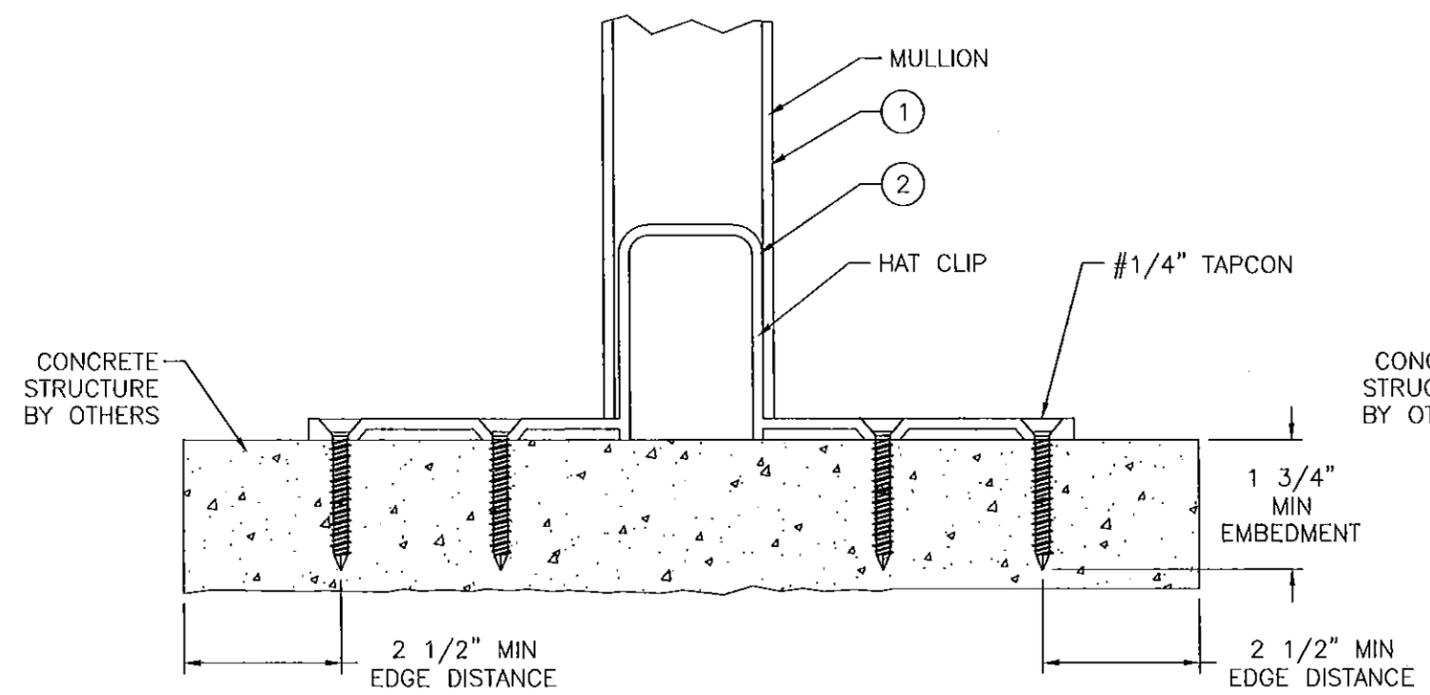
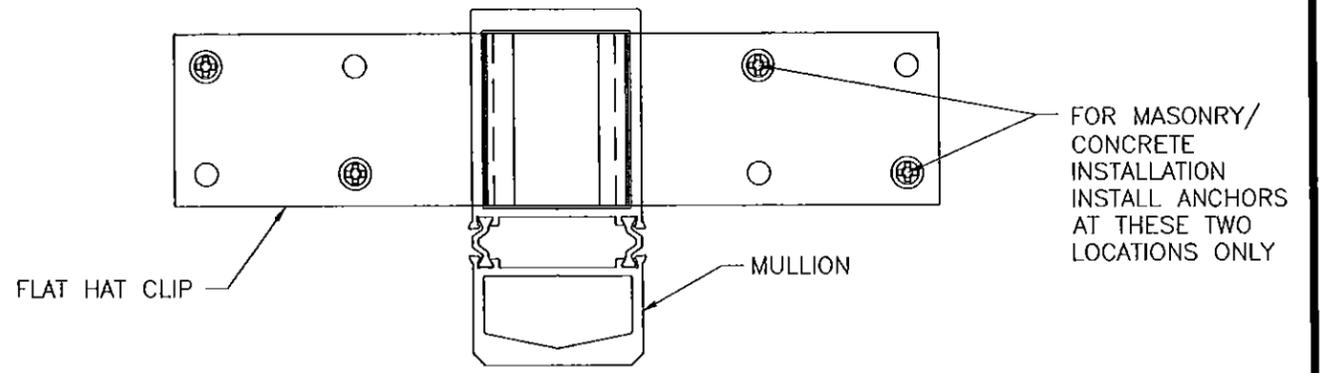
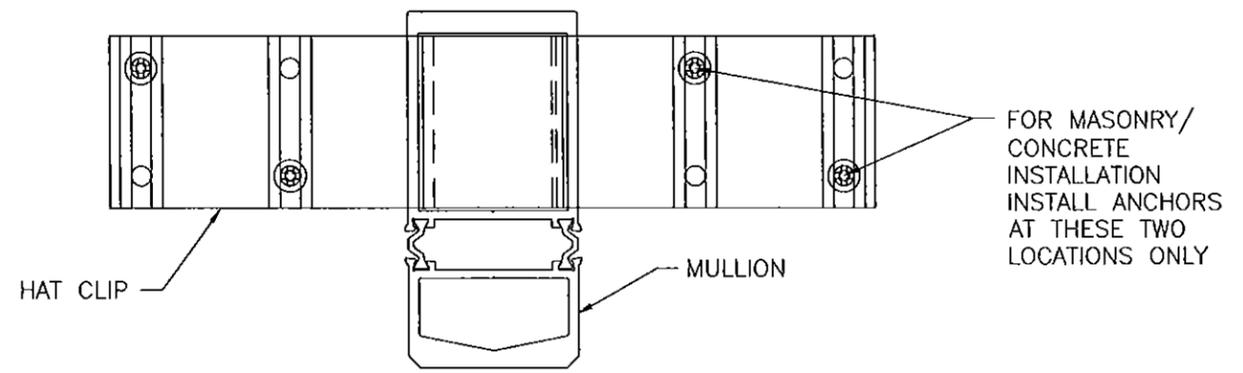
WinDoor 7500 AMSTERDAM DRIVE
 INCORPORATED ORLANDO, FL 32832
 Phone: 407.481.8400
 Fax: 407.481.0505 www.windoorinc.com

SERIES 9000 THERMALLY BROKEN 2"X4-1/8"
 UNIVERSAL MULLION
 VERTICAL INSTALLATION DETAILS

DRAWN: N.G.	DWG NO. 08-02300	REV A
SCALE NTS	DATE 03/11/14	SHEET 11 OF 16



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.



VERTICAL MULLION WITH HAT CLIP DETAIL
 CONCRETE/MASONRY INSTALLATION
 SILL SHOWN HEAD SIMILAR
 HORIZONTAL MULLION SIMILAR

VERTICAL MULLION WITH FLAT HAT CLIP DETAIL
 CONCRETE/MASONRY INSTALLATION
 SILL SHOWN HEAD SIMILAR
 HORIZONTAL MULLION SIMILAR

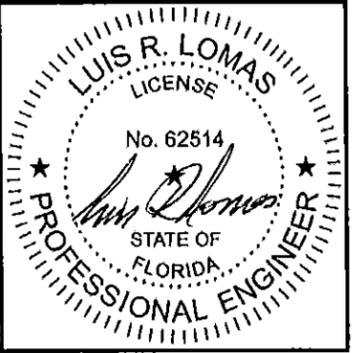
SIGNED: 10/05/2015

Approved as complying with the Florida Building Code
 Date 10/22/2015
 NOA 14-0515.12
 Miami Dade Product Control
 By Manuel Perez

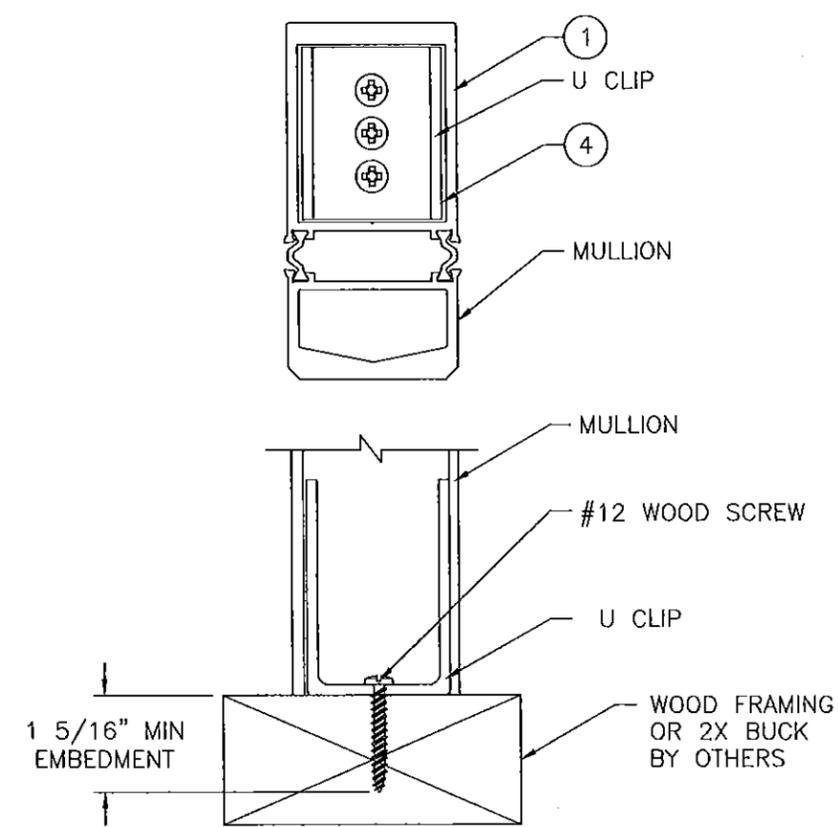
WinDoor INCORPORATED
 7500 AMSTERDAM DRIVE
 ORLANDO, FL 32832
 Phone: 407.481.8400
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 www.windoorinc.com

SERIES 9000 THERMALLY BROKEN 2"X4-1/8"
 UNIVERSAL MULLION
 HORIZONTAL INSTALLATION DETAILS

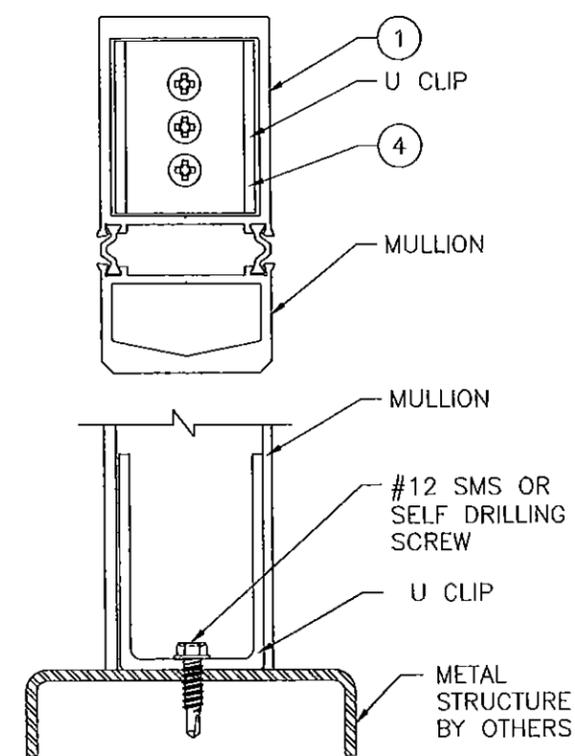
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SCALE NTS	DATE 03/11/14	SHEET 12 OF 16



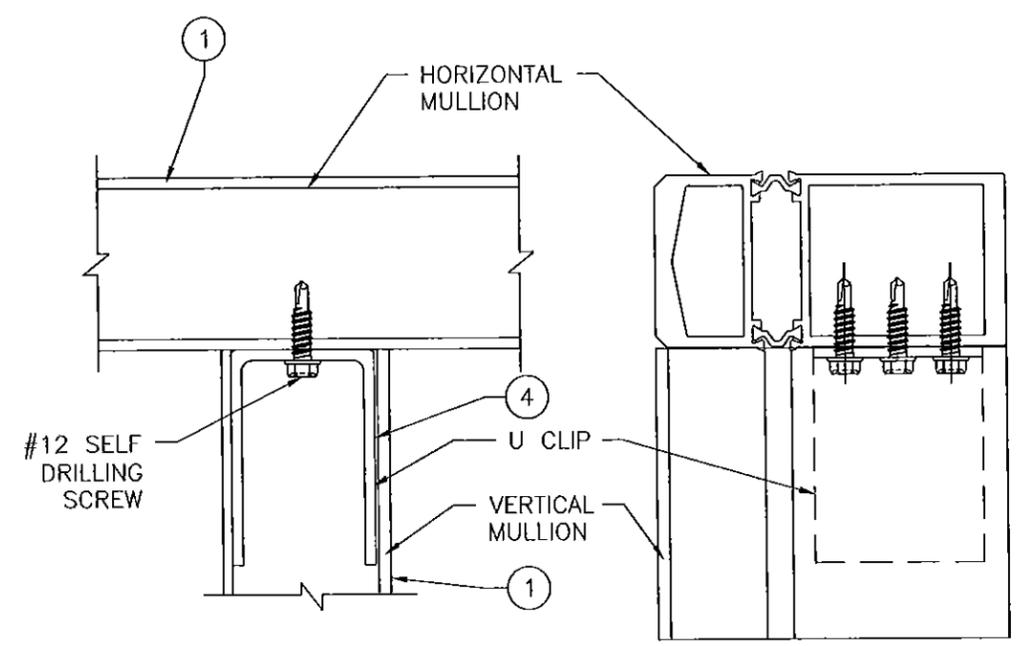
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.



VERTICAL MULLION WITH U CLIP DETAIL
 WOOD FRAMING OR 2X BUCK INSTALLATION
 SILL SHOWN HEAD SIMILAR
 HORIZONTAL MULLION SIMILAR



VERTICAL MULLION WITH U CLIP DETAIL
 METAL STRUCTURE INSTALLATION
 SILL SHOWN HEAD SIMILAR
 HORIZONTAL MULLION SIMILAR



VERTICAL TO HORIZONTAL MULLION WITH U CLIP CONNECTION DETAIL
 VERTICAL TO HORIZONTAL MULLION CONNECTION DETAIL
 HORIZONTAL TO VERTICAL MULLION SIMILAR

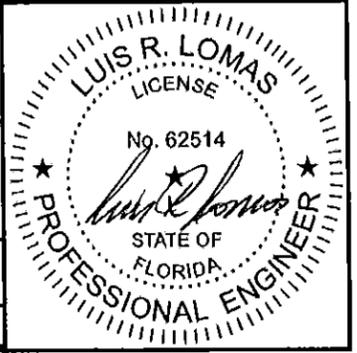
SIGNED: 10/05/2015

Approved as complying with the Florida Building Code
 Date 10/22/2015
 NOA# 14-0545-12
 Miami Dade Product Control
 By *Manuel Perez*

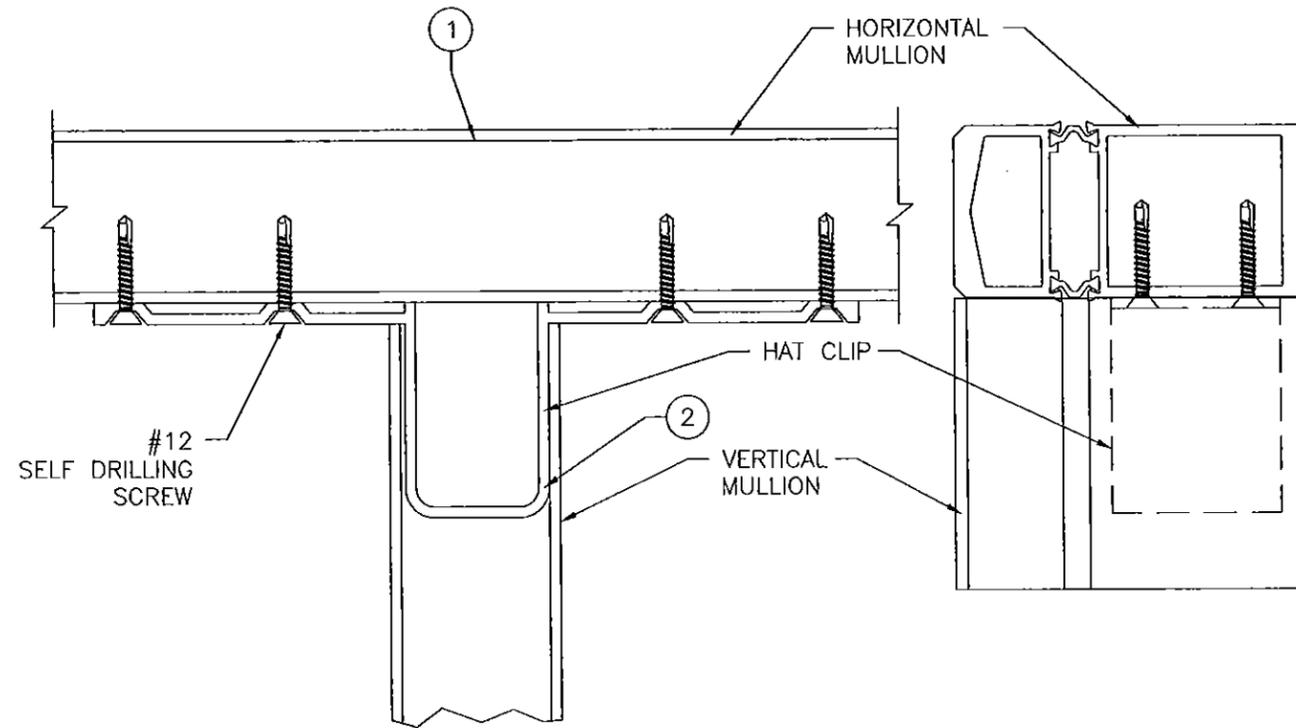
WinDoor INCORPORATED
 7500 AMSTERDAM DRIVE
 ORLANDO, FL 32832
 Phone: 407.481.8400
 Fax: 407.481.0505
 www.windoorinc.com

SERIES 9000 THERMALLY BROKEN 2"x4-1/8"
 UNIVERSAL MULLION
 VERTICAL INSTALLATION DETAILS

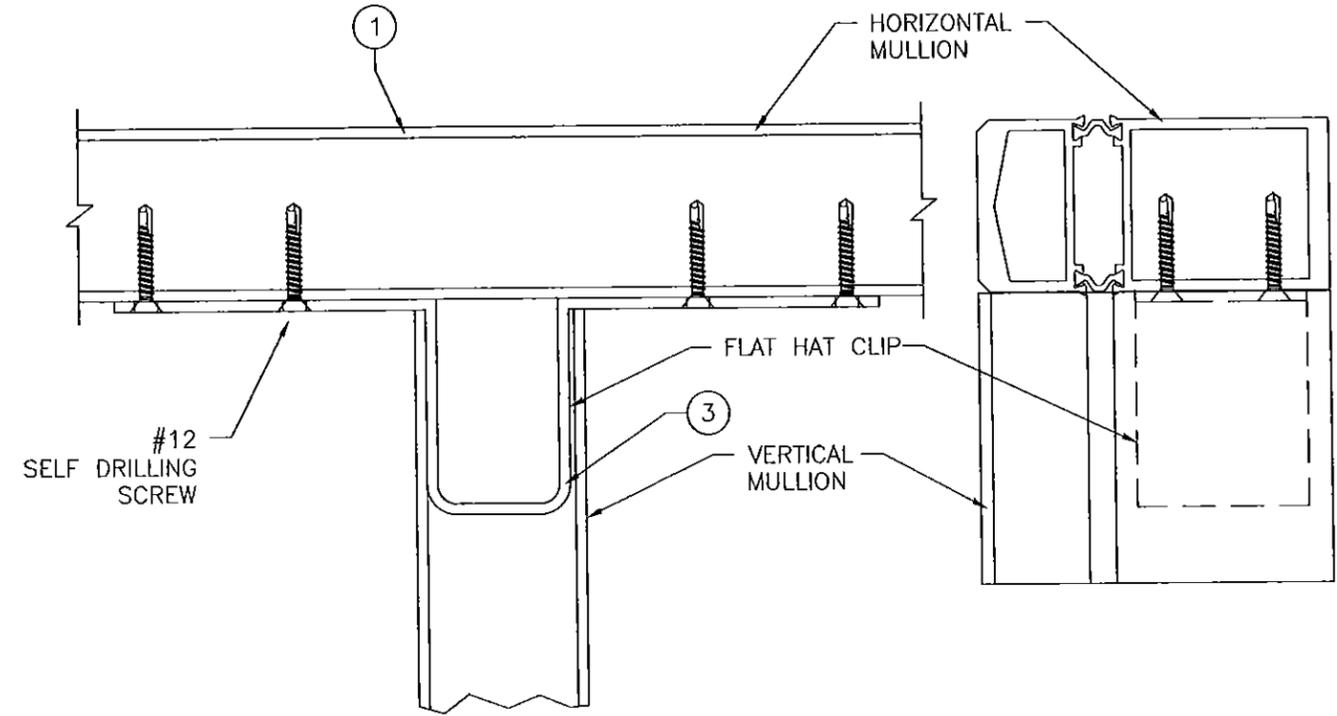
DRAWN: N.G.	DWG NO. 08-02300	REV A
SCALE NTS	DATE 03/11/14	SHEET 13 OF 16



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.



VERTICAL TO HORIZONTAL MULLION WITH HAT CLIP
CONNECTION DETAIL
 VERTICAL TO HORIZONTAL MULLION
 CONNECTION DETAIL
 HORIZONTAL TO VERTICAL MULLION SIMILAR

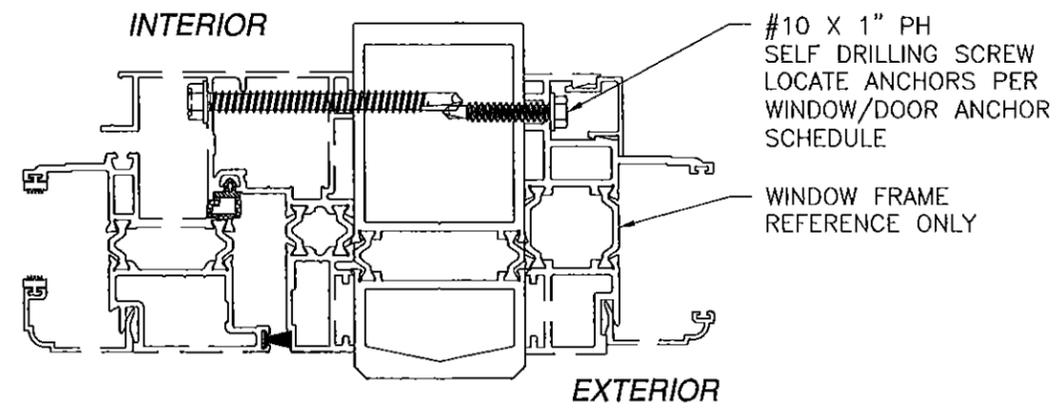


VERTICAL TO HORIZONTAL MULLION WITH FLAT HAT CLIP
CONNECTION DETAIL
 VERTICAL TO HORIZONTAL MULLION
 CONNECTION DETAIL
 HORIZONTAL TO VERTICAL MULLION SIMILAR

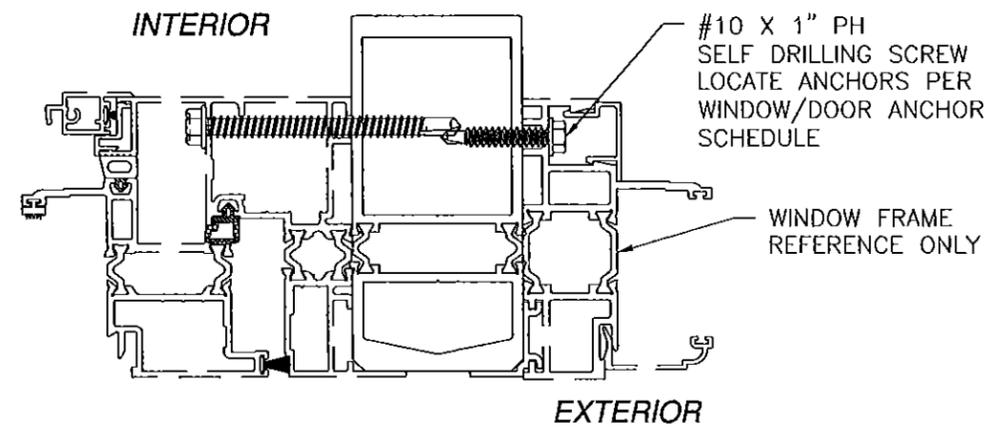
SIGNED: 10/05/2015

Approved as complying with the Florida Building Code Date: 10/22/2015 NOA: 14-0515-12 Miami Dade Product Control By: <i>Manuel Perez</i>	WinDoor INCORPORATED	7500 AMSTERDAM DRIVE ORLANDO, FL 32832 Phone: 407.481.8400 Fax: 407.481.0505 www.windoorinc.com	
	SERIES 9000 THERMALLY BROKEN 2"X4-1/8" UNIVERSAL MULLION HORIZONTAL INSTALLATION DETAILS		
	DRAWN: N.G.	DWG NO. 08-02300	
SCALE NTS	DATE 03/11/14	SHEET 14 OF 16	

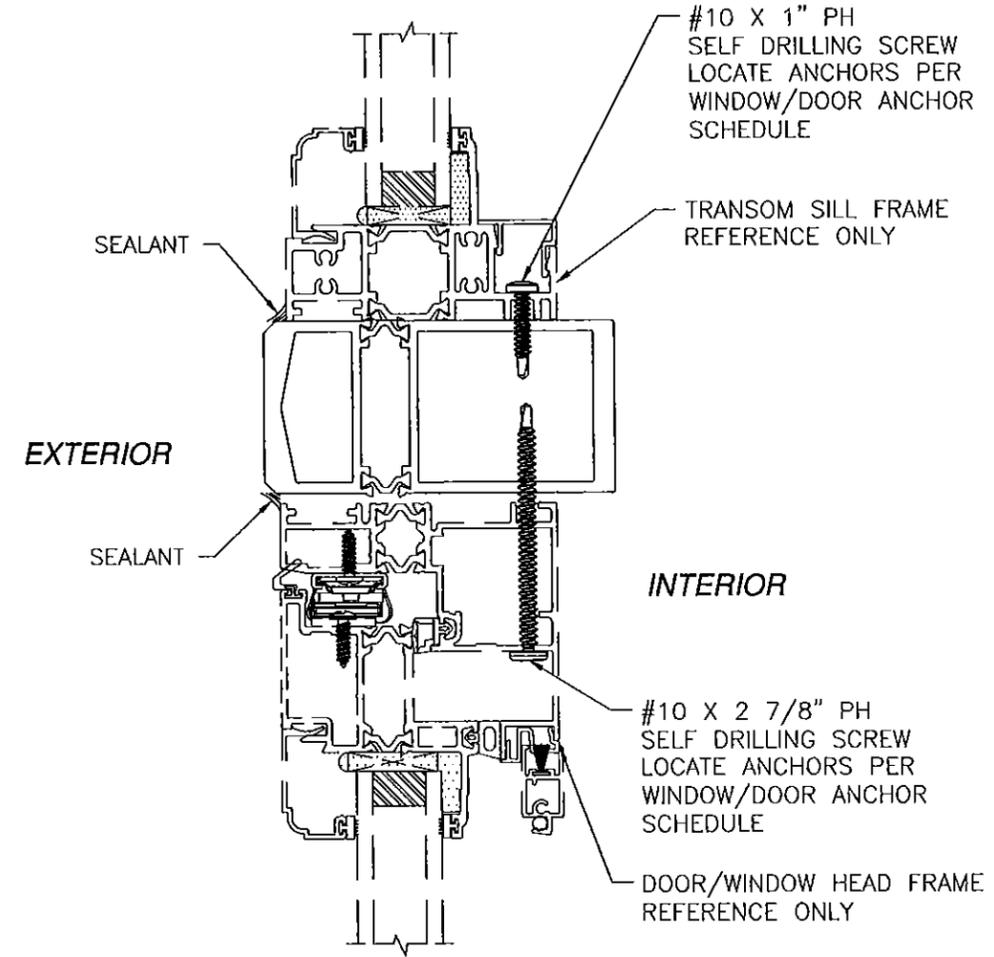
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.



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



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



HORIZONTAL MULLION CONNECTION DETAIL

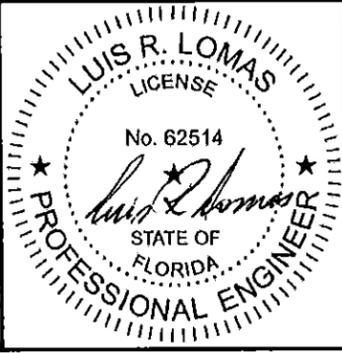
SIGNED: 10/05/2015

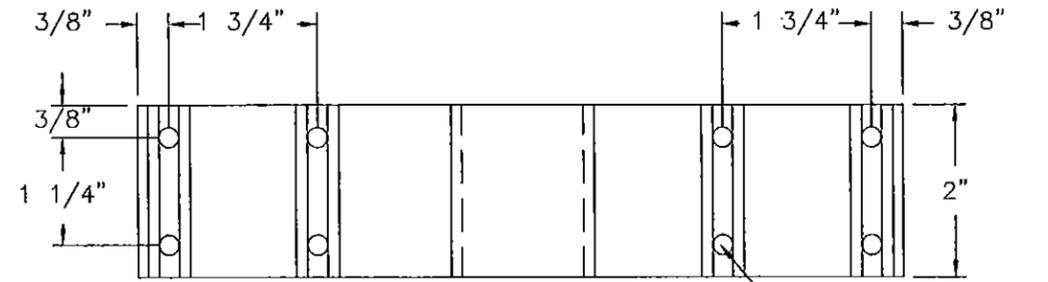
Approved as complying with the Florida Building Code
 Date 10/22/15
 NO. 14-0515-12
 Miami Dade Product Control
 By *Mmanuel Perez*

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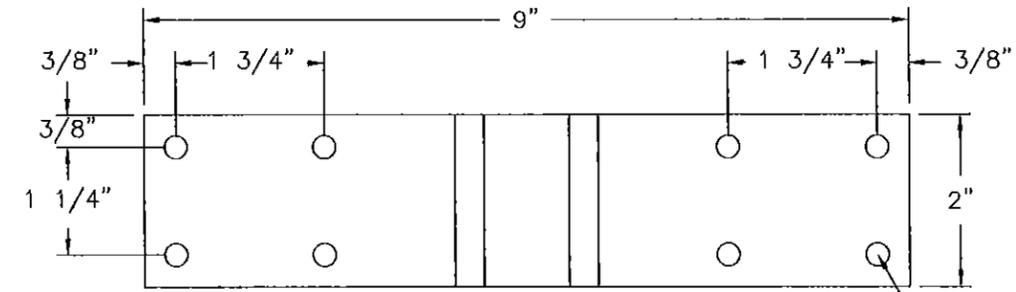
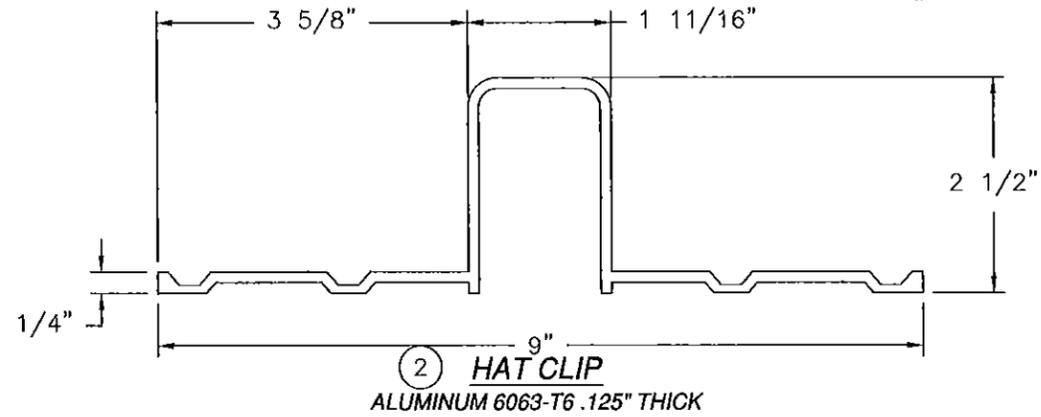
SERIES 9000 THERMALLY BROKEN 2"x4-1/8"
 UNIVERSAL MULLION
 WINDOW/MULLION DETAILS

DRAWN: N.G.	DWG NO. 08-02300	REV -
SCALE NTS	DATE 03/11/14	SHEET 15 OF 16

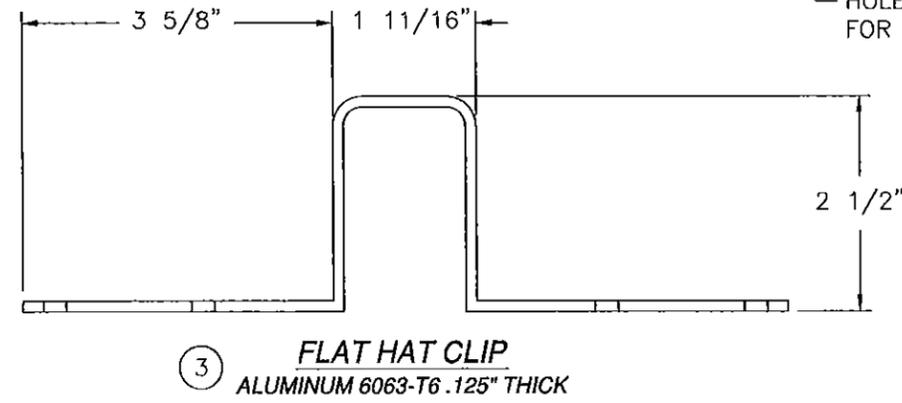




HOLES ARE CSK FOR #12 SCREW

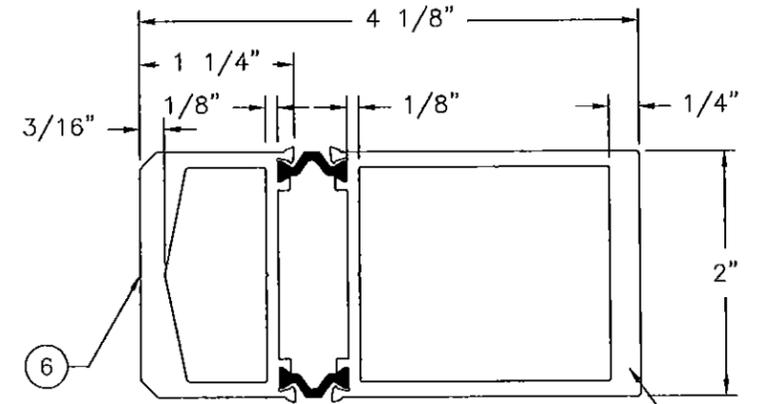


HOLES ARE CSK FOR #12 SCREW

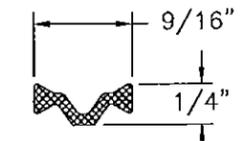


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER MD COMMENTS	06/26/15	R.L.

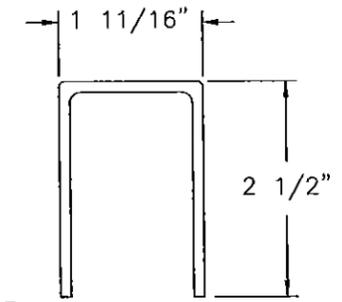
BILL OF MATERIALS				
ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	13902A06	UNIVERSAL THERMALLY BROKEN MULLION ASSEMBLY	KEYMARK	ALUMINUM 6063-T6
2	FS-08482	HAT CLIP	KEYMARK	ALUMINUM 6063-T6
3	11008611	MULLION FLAT HAT CLIP	KEYMARK	ALUMINUM 6063-T6
4	11010245	CHANNEL CLIP	KEYMARK	ALUMINUM 6063-T6
5		TECATHERM 66F-INSULBAR	ENSINGER INC	RIGID PVC
6	H-14227	EXTERIOR EXTRUSION	KEYMARK	ALUMINUM 6063-T6
7	H-14225	INTERIOR EXTRUSION	KEYMARK	ALUMINUM 6063-T6



(1) MULLION ASSEMBLY 13902A06
 ALUMINUM 6063-T6 .100" THICK
 MOMENT OF INERTIA: 4.9998 IN⁴
 SECTION MODULUS: 2.2958 IN³
 EFFECTIVE MOMENT OF INERTIA: 4.590 IN⁴
 EFFECTIVE SECTION MODULUS: 2.080 IN³
 (EFFECTIVE VALUES BASED ON PREVIOUS TESTING)



(5) 14.6MM THERMAL STRUT
 NYLON POLYAMIDE .070" THICK



(4) U CLIP
 ALUMINUM 6063-T6 .125" THICK

SIGNED: 10/05/2015

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 Date: 10/22/2015
 NQA# 14-0515-12
 Miami Dade Product Control
 By: _____

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SERIES 9000 THERMALLY BROKEN 2"X4-1/8"
 UNIVERSAL MULLION COMPONENTS

DRAWN: N.G.	DWG NO. 08-02300	REV A
SCALE NTS	DATE 03/11/14	SHEET 16 OF 16

