



MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, FL 33175

T (786) 315-2590 F (786) 315-2599

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

**NOTICE OF ACCEPTANCE (NOA)**

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

**WinDoor, Inc.**

**104 Triple Diamond Blvd.**

**North Venice, FL 34275**

**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. 2 TB-LMI-NOA, titled "2" x 4-1/8" Thermally Broken Mullion", sheets 1 through 16 of 16, dated 08/14/2020, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration 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 **revises and renews NOA No. 18-0123.15** 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 **Sifang Zhao, P.E.**



*S.Z.*  
10/01/2020

NOA No. 20-0826.02  
Expiration Date: October 22, 2025  
Approval Date: October 01, 2020  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA #14-0515.02**

**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 B dated 12/07/17, 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 5<sup>th</sup> 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.
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.



Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 20-0826.02

Expiration Date: October 22, 2025  
Approval Date: October 01, 2020

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS (CONTINUED)**

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.

**F. STATEMENTS**

1. Statement letter of conformance, complying with the FBC 6th Edition (2017) and of no financial interest, dated 12/07/17, signed and sealed by Luis R. Lomas, P.E.

**G. OTHERS**

1. None.

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. 2 TB-LMI-NOA, titled "2" x 4-1/8" Thermally Broken Mullion", sheets 1 through 16 of 16, dated 08/14/2020, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS:**

1. Anchor verification calculations, complying with **FBC 6<sup>th</sup> Edition (2017)**, dated 12/07/17, 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**

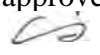
1. None

**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC 6th Edition (2017) and with FBC 7th Edition (2020), and of no financial interest, dated 08/17/2020, signed and sealed by Anthony Lynn Miller, P.E.
2. Statement letter of successor engineer per 61G15-27.001 Florida Administrative Code.

**G. OTHERS**

1. Notice of Acceptance No. **18-0123.15**, issued to WinDoor, Inc., for their Series "9000 Thermally Broken Universal" Clipped Aluminum Tube Mullion -L.M.I.", approved on 03/01/18 and expiring on 10/22/20.

  
\_\_\_\_\_  
**Sifang Zhao, P.E.**  
**Product Control Examiner**  
**NOA No. 20-0826.02**  
**Expiration Date: October 22, 2025**  
**Approval Date: October 01, 2020**


NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE 6TH EDITION (2017) AND 7TH EDITION (2020) 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:

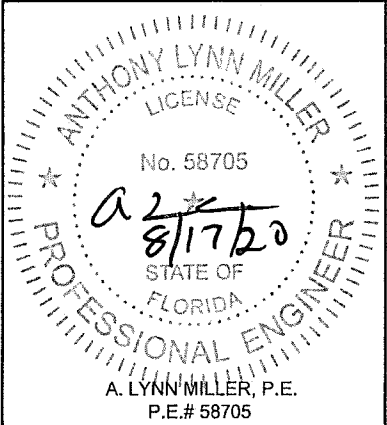
- 1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/16" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
- 2. FOR ANCHORING INTO CONCRETE USE 1/4" ITW TAPCON WITH ADVANCED THREAD FROM TECHNOLOGY OR 1/4" CRETE-FREX SS4 WITH SUFFICIENT 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

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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0826.02  
Expiration Date 10/22/2025  
By   
Miami-Dade Product Control

Revision: UPDATES FOR 2020 FBC.  
UPDATED MANUFACTURING  
ADDRESS.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	08/14/20	By	ERIN KOSS	Rev.
					No.
					DWG
					2 TB-LMI-NOA
WinDoor® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	Title	2x4-1/8" THERMALLY BROKEN MULLION (LM)	Desc.	GENERAL NOTES	Sheet
					1 OF 16
					MULLION



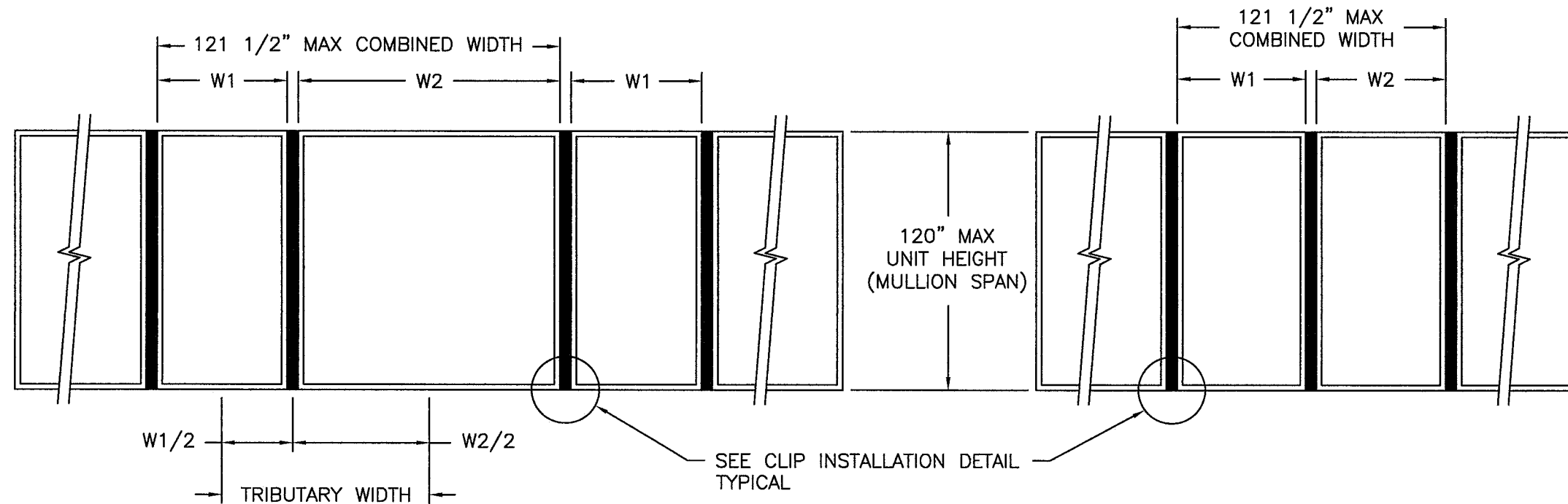


CHART #1

**Design pressure rating (psf)**

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

**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.

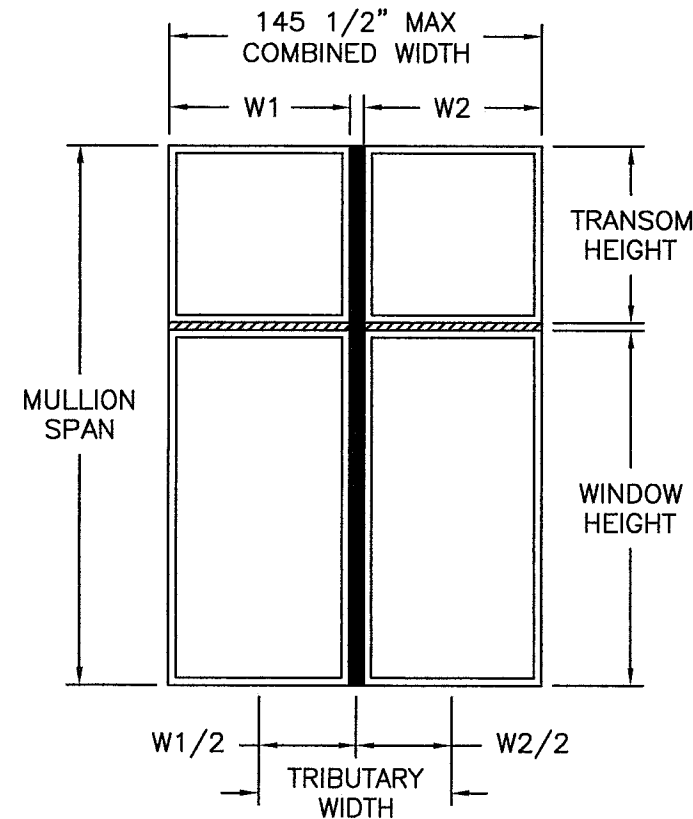
$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 20-0826.02  
Expiration Date 10/22/2025  
By   
Miami-Dade Product Control

NO CHANGES THIS SHEET.

WinDoor® INCORPORATED	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		Date	08/14/20
	WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432			
2x4-1/8" THERMALLY BROKEN MULLION (LM)				
SINGLE UNITS MULLED TO SINGLE UNITS	ERIN KOSS		By Drawn	
MULLION	2 OF 16	DWC No.	2 TB-LMI-NOA	Rev.
Series	Sheet			

A. LYNN MILLER, P.E.  
P.E.# 58705



**VERTICAL MULLION**

TWIN UNITS WITH TWIN TRANSOMS  
SEE CHARTS #2, #3, #4, #5 AND #6 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 #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 #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 #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	-	-

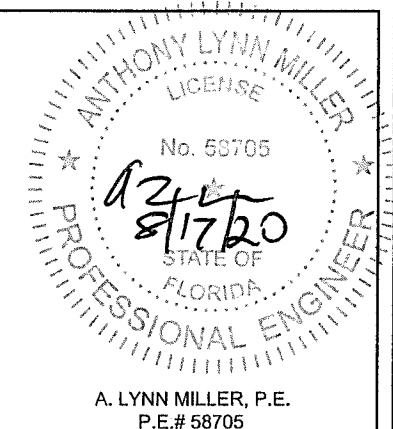
IMPACT RATED UP TO WIND ZONE 4 AND HVHZ

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 20-0826.02  
Expiration Date 10/22/2025  
By   
Miami-Dade Product Control

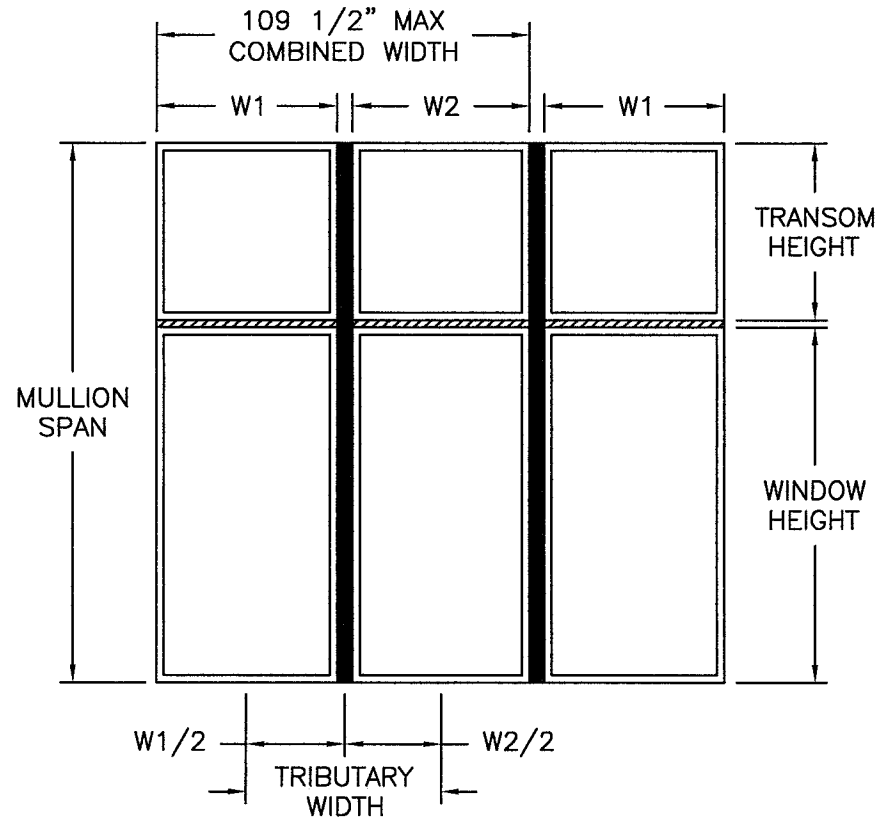
NO CHANGES THIS SHEET.

Revision:

WINDOOR <sup>®</sup> INCORPORATED		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432		2x4-1/8" THERMALLY BROKEN MULLION (LM)	
Title		Date	
2x4-1/8" THERMALLY BROKEN MULLION (LM)		08/14/20	
Series		By	
DESC.		Drawn	
VERTICAL TWIN w/TRANSOM		ERIN KOSS	
MULLION		2 TB-LM-HNOA	
Sheet		No.	
3 OF 16		DWG	
Rev.			



A. LYNN MILLER, P.E.  
P.E.# 58705



### VERTICAL MULLION

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

#### 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 #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 #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

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

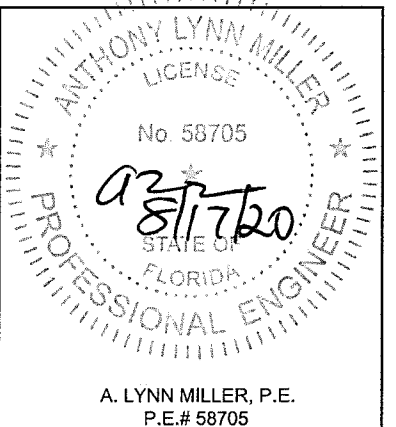
IMPACT RATED UP TO WIND ZONE 4 AND HVHZ

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 20-0826.02  
Expiration Date 10/22/2025  
By   
Miami-Dade Product Control

NO CHANGES THIS SHEET.

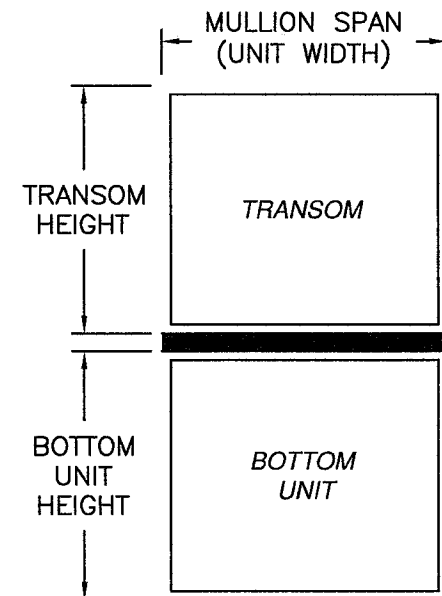
Revision:

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	 WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	2x4-1/8" THERMALLY BROKEN MULLION (LM) VERTICAL TRIPLE W/ TRIPLE TRANSOM MULLION	ERIN KOSS By Date 08/14/20	Rev.
				No.
				DWG
				Sheet



A. LYNN MILLER, P.E.  
P.E.# 58705





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 13  
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 11  
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 12  
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

CHART 14  
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

CHART 15  
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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0826.02  
Expiration Date 10/22/2025  
By   
Miami-Dade Product Control

NO CHANGES THIS SHEET.

PREPARED BY A. LYNN MILLER  
1070 TECHNOLOGY DRIVE  
N. VENICE, FL 34275  
(941) 480-1600  
REGISTRATION #29296

**WINDOOR®**  
INCORPORATED  
WINDOOR INCORPORATED  
104 TRIPLE DIAMOND BLVD.  
NORTH VENICE, FL 34275  
(833) 554-5432

Rev.	08/14/20
Date	
By	ERIN KOSS
DWG No.	2 TB-LMI-NOA
Sheet	5 OF 16
Series	MULLION
Desc.	HORIZONTAL SINGLE W/TRANSOM
Title	2x4-1/8" THERMALLY BROKEN MULLION (LM)

ANTHONY LYNN MILLER  
LICENSE  
No. 58705  
02/8/17/20  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
A. LYNN MILLER, P.E.  
P.E.# 58705



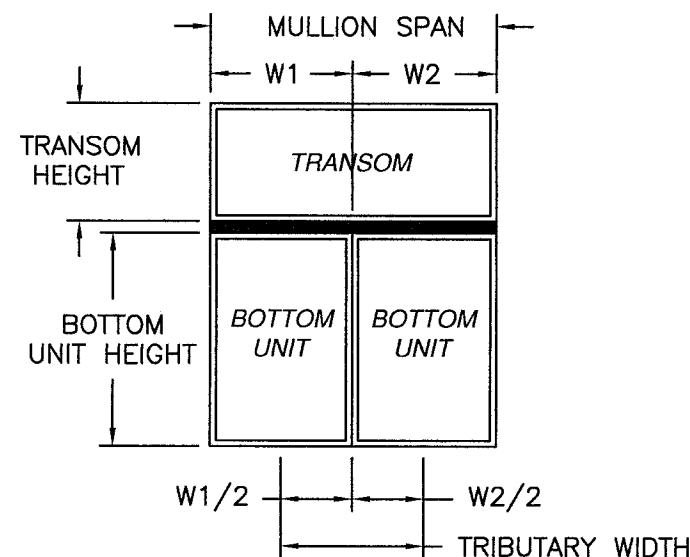


CHART 18  
48" TRANSOM

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 16  
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 17  
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 19  
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

CHART 20  
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

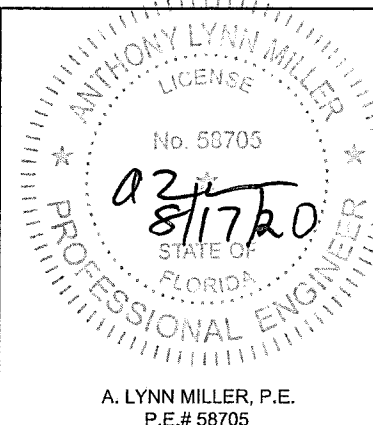
- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
  2. DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
  3. TO DETERMINE MULLION RATING LOCATE COLUMN FOR MULLION SPAN AND TRIBUTARY 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.

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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0826.02  
Expiration Date 10/22/2025  
By   
Miami-Dade Product Control

Revision: NO CHANGES THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	08/14/20	By ERIN KOSS	Rev.
				No.
				DWG
				2 TB-LMI-NOA
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	Title	2x4-1/8" THERMALLY BROKEN MULLION (LM)	Horizontal Twin w/TRANSOM	6 OF 16
				Sheet
				MULLION



A. LYNN MILLER, P.E.  
P.E.# 58705

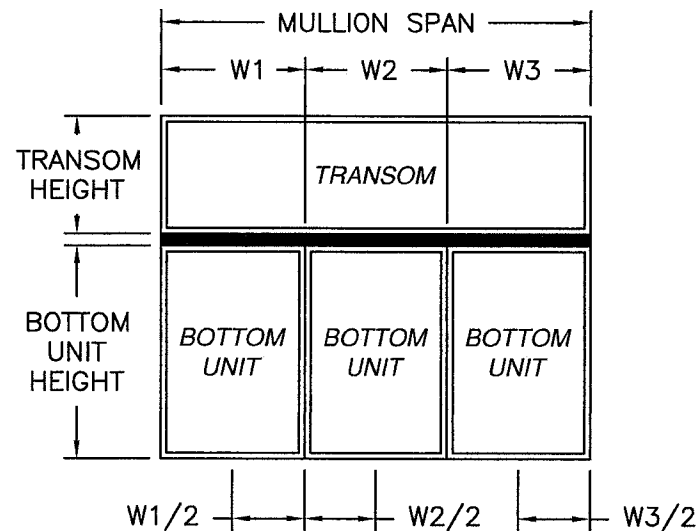


CHART 23  
48" TRANSOM

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 21  
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 22  
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 24  
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

CHART 25  
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:

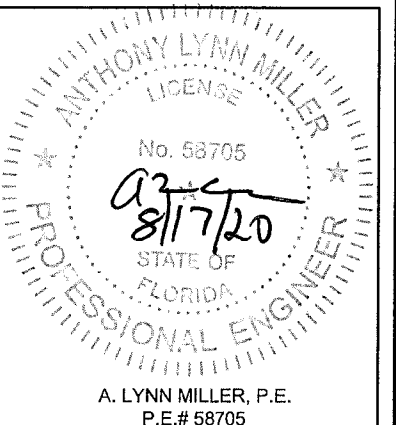
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2. DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
3. TO DETERMINE MULLION RATING LOCATE COLUMN FOR MULLION SPAN AND TRIBUTARY WIDTH THEN LOCATE CORRESPONDING ROW FOR 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.

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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0826.02  
Expiration Date 10/22/2025  
By   
Miami-Dade Product Control

Revision: NO CHANGES THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	08/14/20	By	ERIN KOSS	Rev.
WINDOOR® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	Title	2x4-1/8" THERMALLY BROKEN MULLION (LM)	Drawn	HORIZONTAL TRIPLE W/TRANSOM	No.
MULLION	Sheet	7 OF 16	DWC	2 TB-LMI-NOA	Rev.



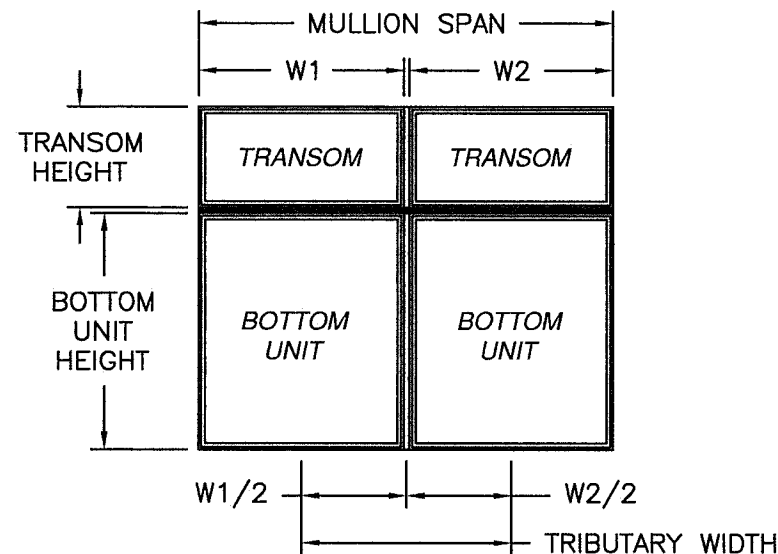


CHART 26  
36" TRANSOM

Design pressure chart (psf)								
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 27  
42" TRANSOM

Design pressure chart (psf)								
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 28  
48" TRANSOM

Design pressure chart (psf)								
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	70.6	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 29  
54" TRANSOM

Design pressure chart (psf)								
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	31.6	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

CHART 30  
60" TRANSOM

Design pressure chart (psf)								
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:

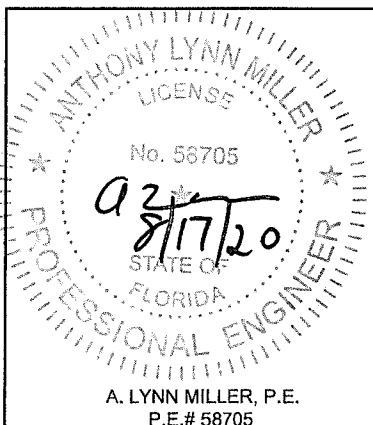
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
2. DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
3. TO DETERMINE MULLION RATING LOCATE COLUMN FOR MULLION SPAN AND TRIBUTARY WIDTH THEN LOCATE CORRESPONDING ROW FOR 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.

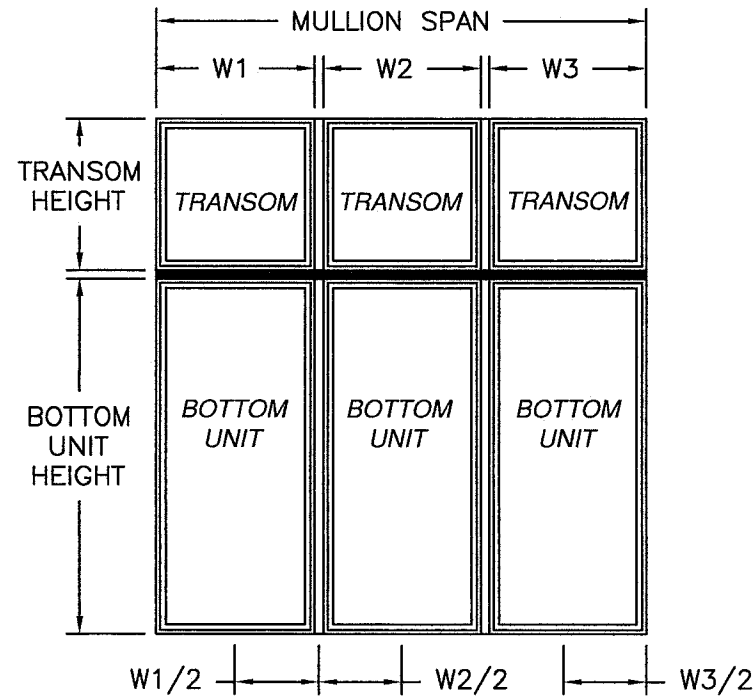
$$\text{TRIBUTARY WIDTH} = \frac{W1 + W2}{2}$$

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0826.02  
Expiration Date 10/22/2025  
By   
Miami-Dade Product Control

Revision:  
NO CHANGES THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date		08/14/20
	By		ERIN KOSS
	Drawn		HORIZONTAL TWIN w/TWIN TRANSOM
	No.		2 TB-LMI-NOA
WinDoor® INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	Title		2x4-1/8" THERMALLY BROKEN MULLION (LM)
	Desc.		HORIZONTAL TWIN w/TWIN TRANSOM
	Series		MULLION
	Sheet		8 OF 16





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.

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

CHART 31  
18" TRANSOM

		Design pressure (psf)					
Height (in)		Total Unit and Tributary width (in)					
Window	Transom	72.0	90.0	108.0	126.0	144.0	162.0
36.0	18.0	24.0	30.0	36.0	42.0	48.0	54.0
42.0	18.0	150.0	147.8	84.6	52.9	35.2	24.6
48.0	18.0	150.0	134.0	76.8	48.0	31.9	22.3
54.0	18.0	150.0	122.5	70.3	43.9	29.2	20.4
60.0	18.0	150.0	112.9	64.8	40.5	27.0	18.8
66.0	18.0	150.0	104.6	60.1	37.6	25.0	17.5
72.0	18.0	150.0	97.5	56.0	35.1	23.4	16.3
78.0	18.0	150.0	91.3	52.5	32.9	21.9	15.3
84.0	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 32  
24" TRANSOM


		Design pressure (psf)					
Height (in)		Total Unit and Tributary width (in)					
Window	Transom	72.0	90.0	108.0	126.0	144.0	162.0
36.0	24.0	24.0	30.0	36.0	42.0	48.0	54.0
42.0	24.0	150.0	133.4	76.4	47.7	31.7	22.2
48.0	24.0	150.0	122.0	69.9	43.6	29.0	20.3
54.0	24.0	150.0	112.5	64.5	40.3	26.8	18.7
60.0	24.0	150.0	104.3	59.8	37.4	24.9	17.4
66.0	24.0	150.0	97.2	55.8	34.9	23.2	16.2
72.0	24.0	150.0	91.0	52.3	32.7	21.8	15.2
78.0	24.0	150.0	85.6	49.2	30.8	20.5	-
84.0	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 33  
30" TRANSOM

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

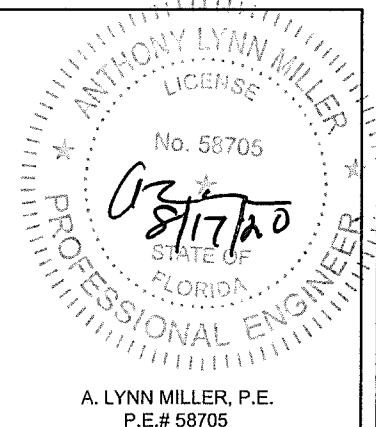
CHART 34  
36" TRANSOM

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

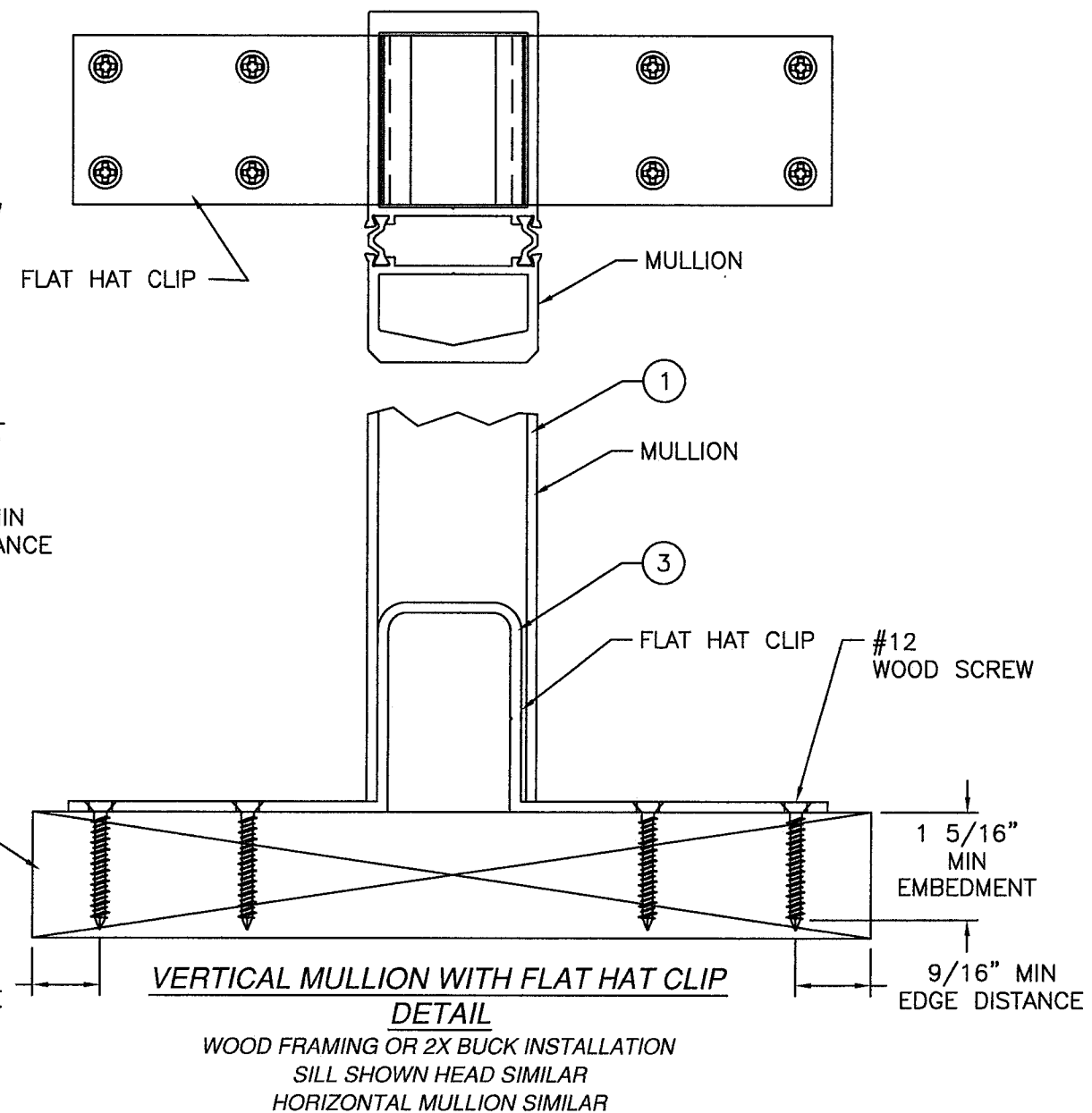
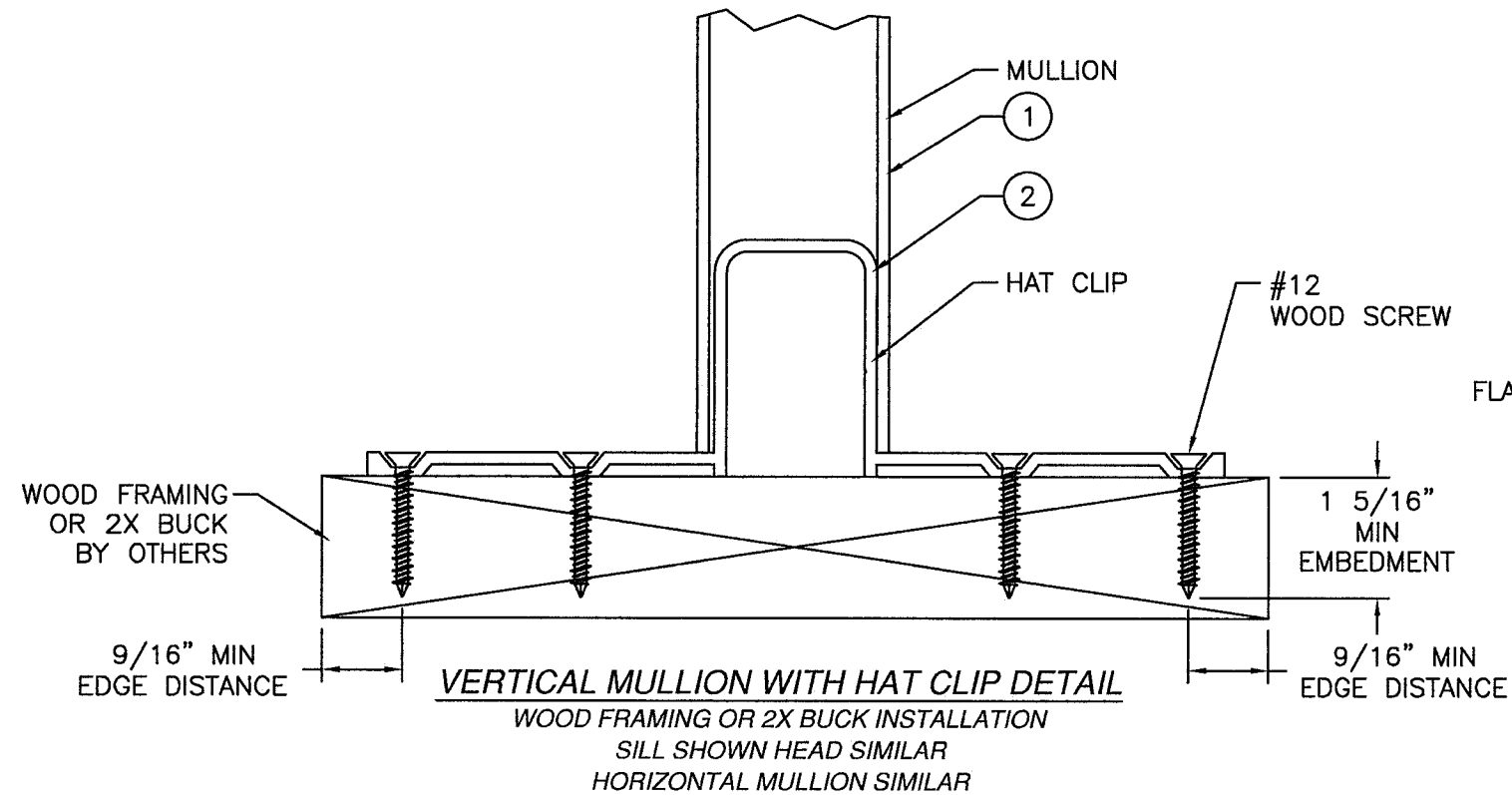
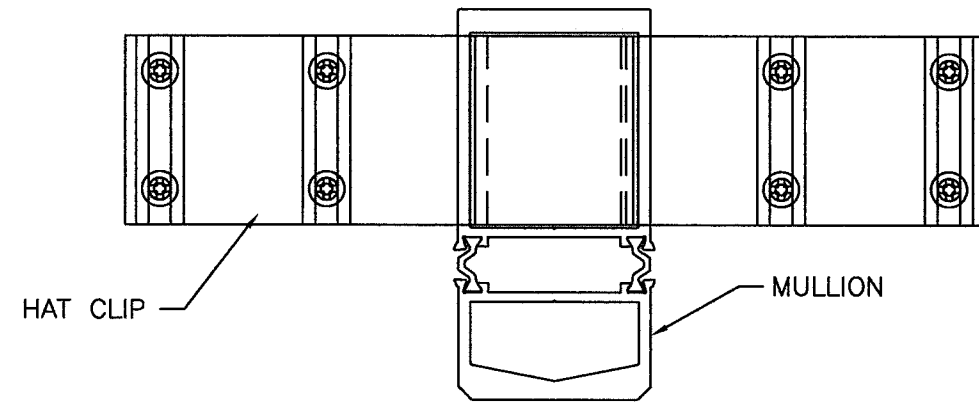
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0826.02  
Expiration Date 10/22/2025  
By   
Miami-Dade Product Control

NO CHANGES THIS SHEET.

<div>WINDOOR®</div> <div>INCORPORATED</div> <div>WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432</div>		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		
		2x4-1/8" THERMALLY BROKEN MULLION (LM)		
		HORIZONTAL TRIPLE w/TRIPLE TRANSOM		
		MULLION		
		9 OF 16		
Sheet	DWG No.		2 TB-LMI-NOA	Rev.
Series Desc.	By		ERIN KOSS	Date
				08/14/20



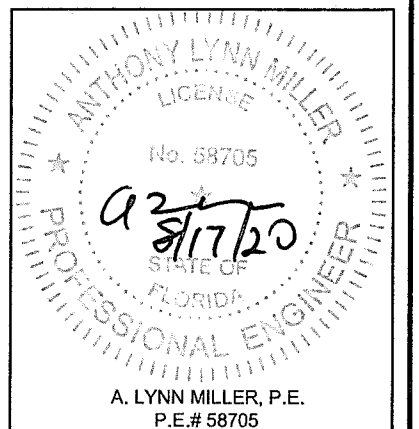
A. LYNN MILLER, P.E.  
P.E.# 58705

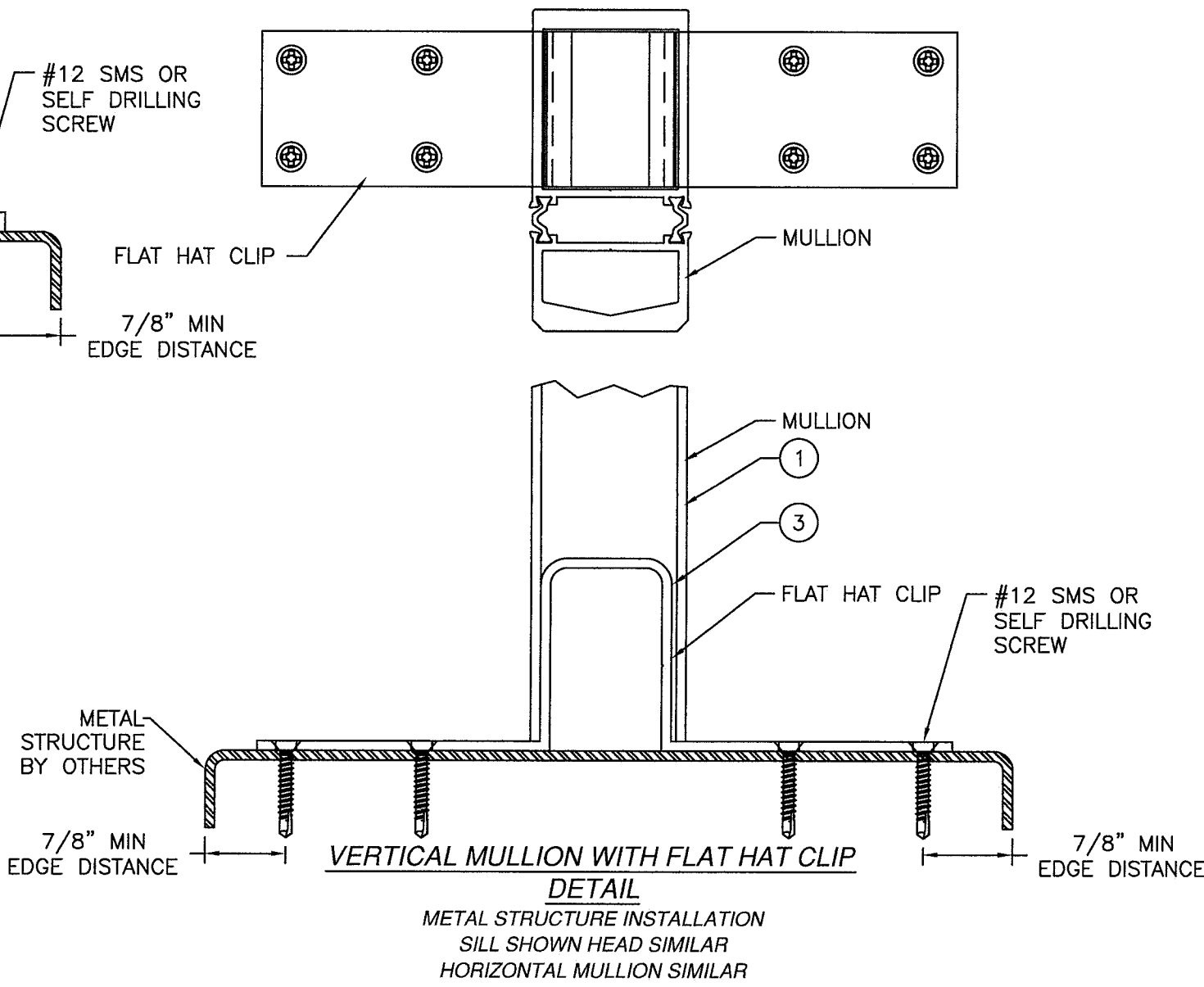
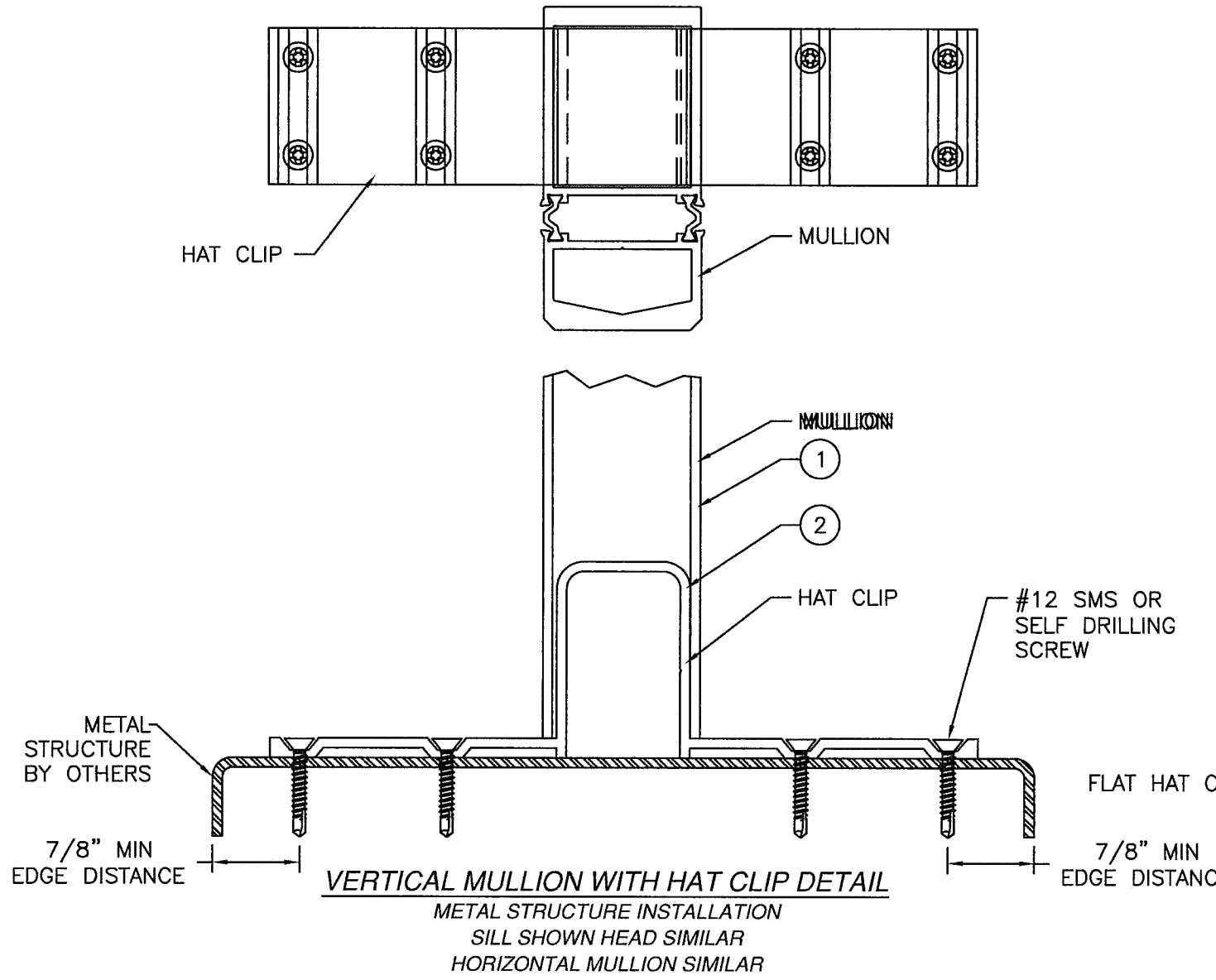


**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0826.02  
Expiration Date 10/22/2025  
By   
Miami-Dade Product Control

Revision: NO CHANGES THIS SHEET.

<b>WinDoor®</b> INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		08/14/20 Date		ERIN KOSS By		2 TB-LMI-NOA DWG No.		Rev.	
	2x4-1/8" THERMALLY BROKEN MULLION (LM)		10 OF 16		SHEET		MULLION		10 OF 16	
	INSTALLATION DETAILS - WOOD		10 OF 16		SHEET		MULLION		10 OF 16	
	2x4-1/8" THERMALLY BROKEN MULLION (LM)		10 OF 16		SHEET		MULLION		10 OF 16	

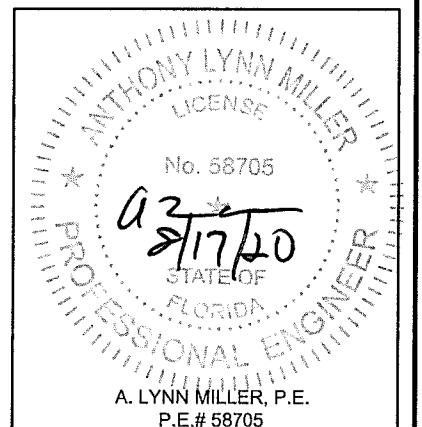




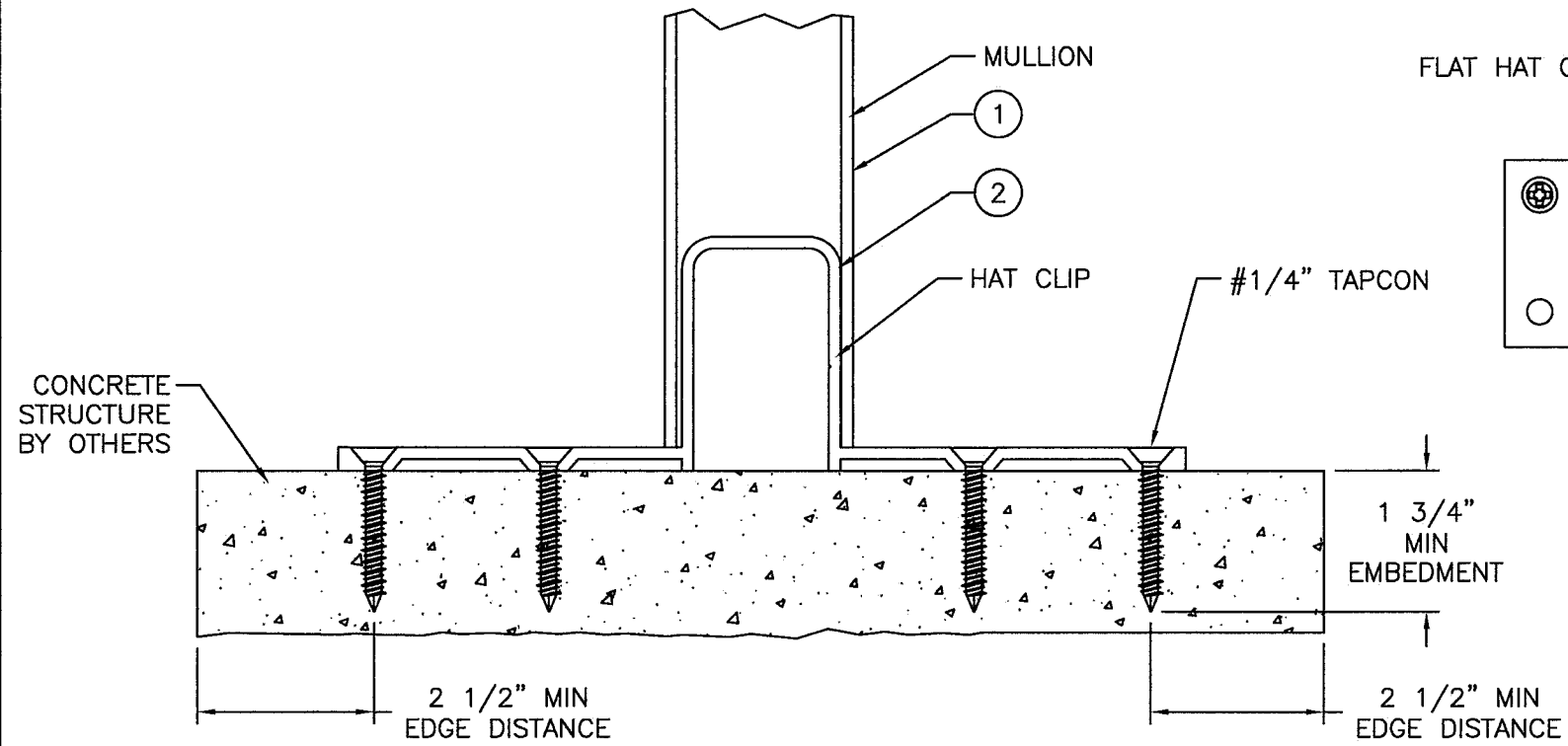
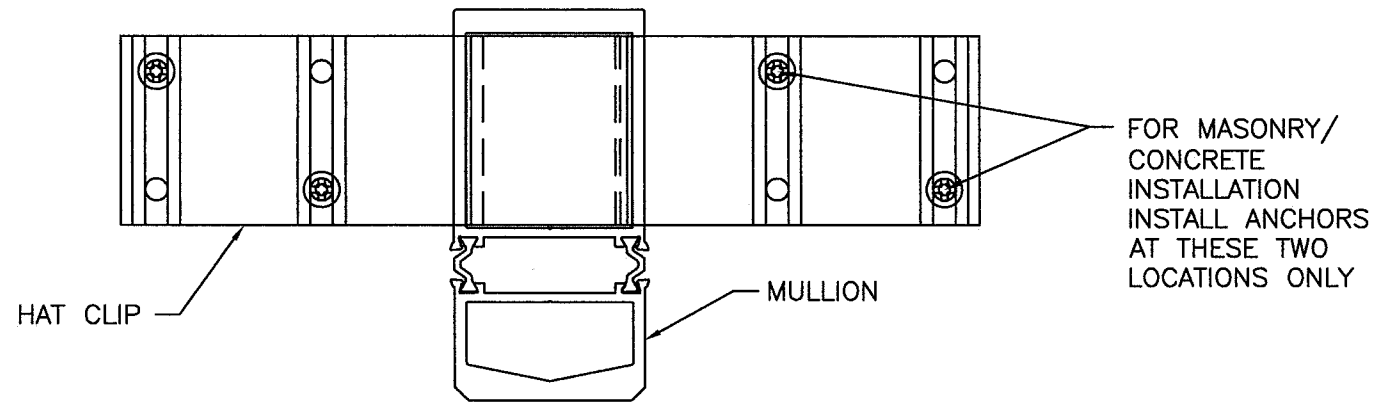
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-0826.02  
Expiration Date 10/22/2025  
By *[Signature]*  
Miami-Dade Product Control

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PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	Date	08/14/20	Rev.	
	By	ERIN KOSS	DWG No.	2 TB-LMI-NOA
	Sheet	11 OF 16	MULLION	
	<b>WINDOOR®</b> INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432			
2x4-1/8" THERMALLY BROKEN MULLION (LM)		INSTALLATION DETAILS - METAL		

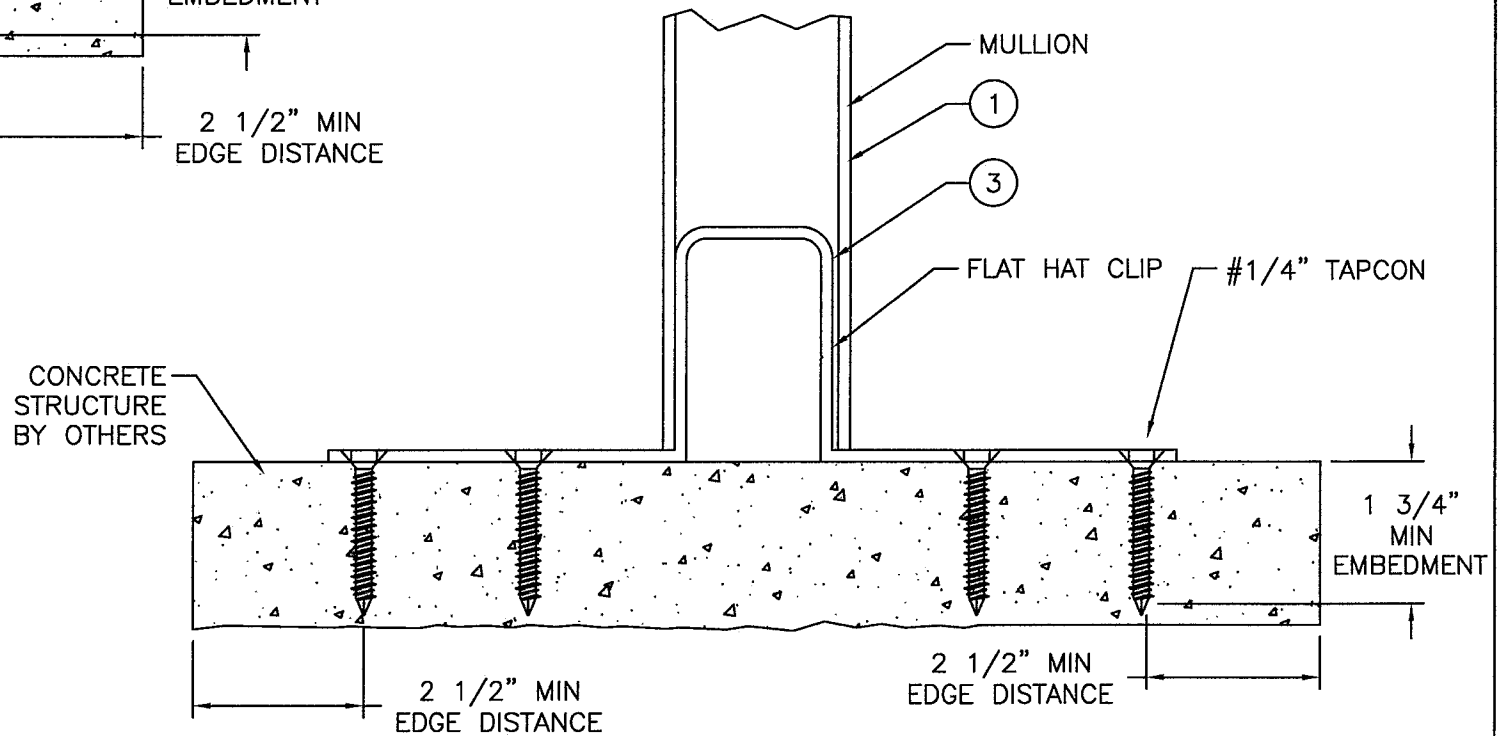
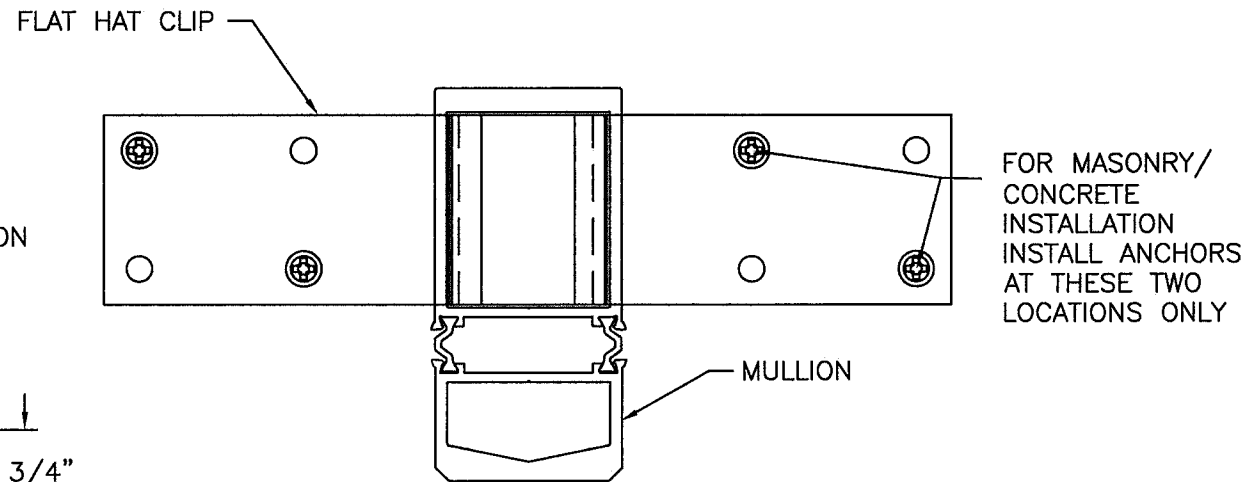






### VERTICAL MULLION WITH HAT CLIP DETAIL

CONCRETE/MASONRY INSTALLATION  
SILL SHOWN HEAD SIMILAR  
HORIZONTAL MULLION SIMILAR



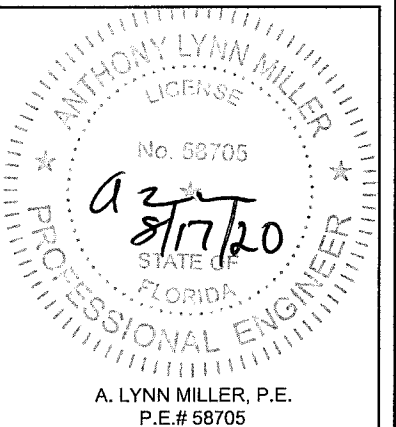
### VERTICAL MULLION WITH FLAT HAT CLIP DETAIL

CONCRETE/MASONRY INSTALLATION  
SILL SHOWN HEAD SIMILAR  
HORIZONTAL MULLION SIMILAR

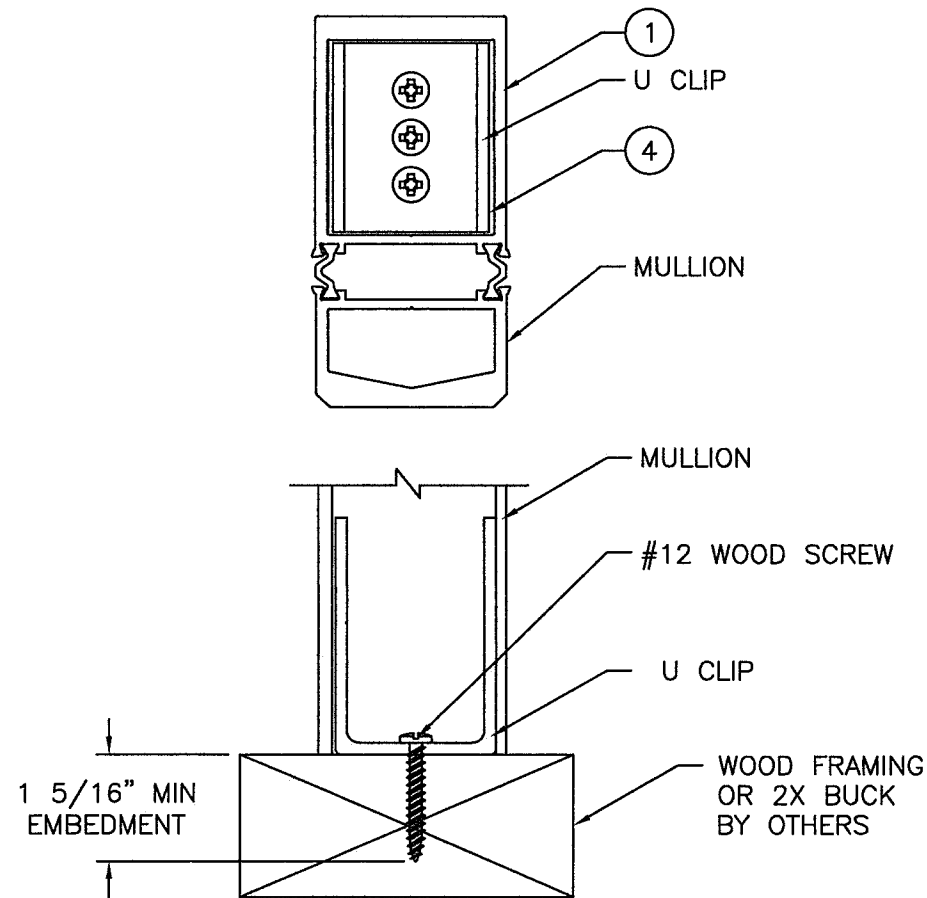
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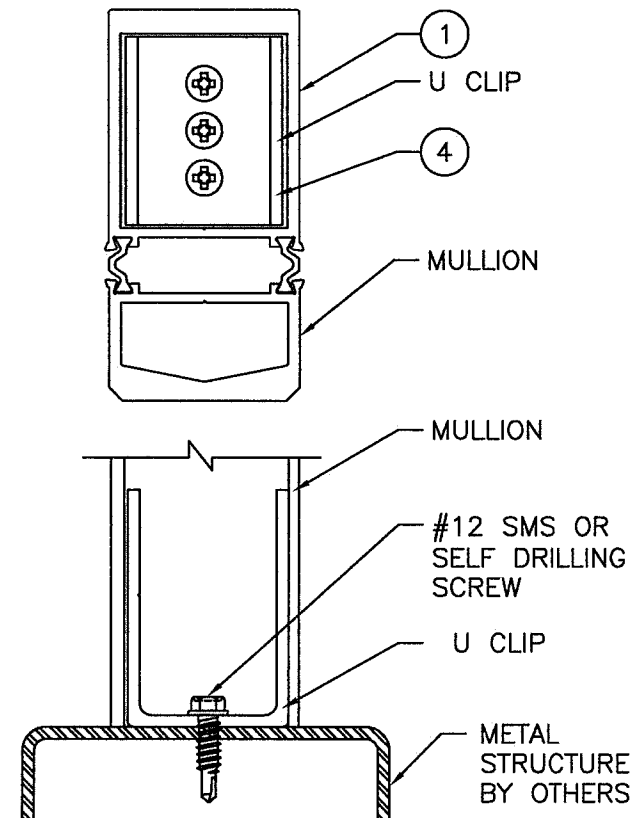
WINDOOR® INCORPORATED		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432		2x4-1/8" THERMALLY BROKEN MULLION (LM)	
Title		Date	
08/14/20			
INSTALLATION DETAILS - MASONRY			
By		ERIN KOSS	
Series		DWG No.	
MULLION		2 TB-LMI-NOA	
Sheet		Rev.	
12 OF 16			



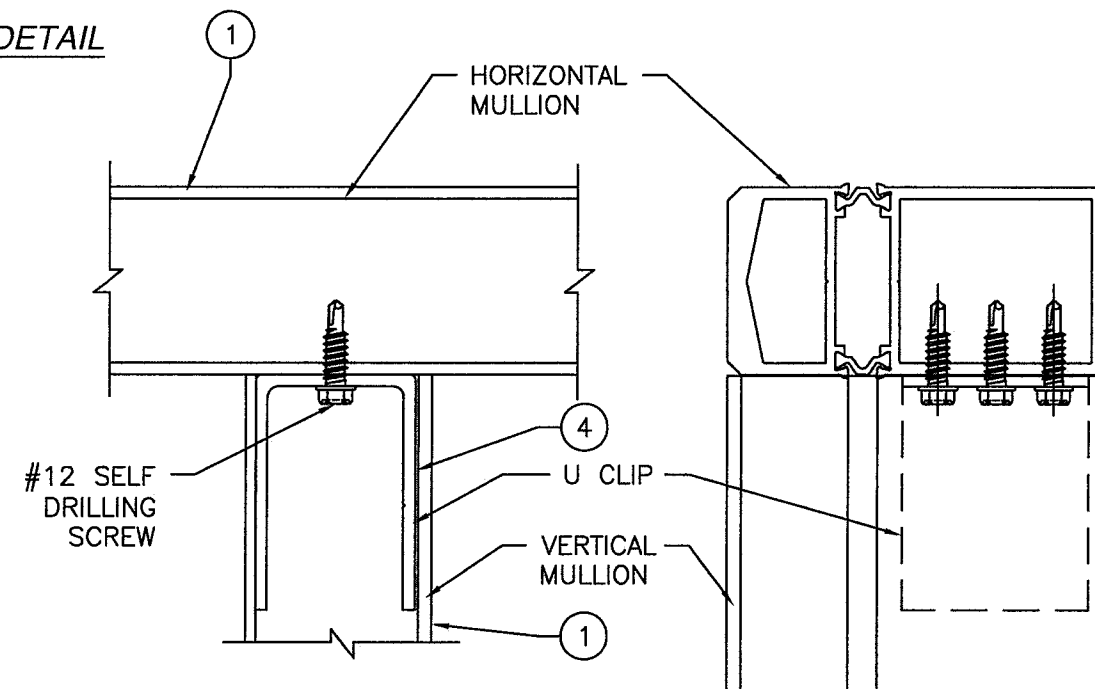




**VERTICAL MULLION WITH U CLIP DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION  
SILL SHOWN HEAD SIMILAR  
HORIZONTAL MULLION SIMILAR



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

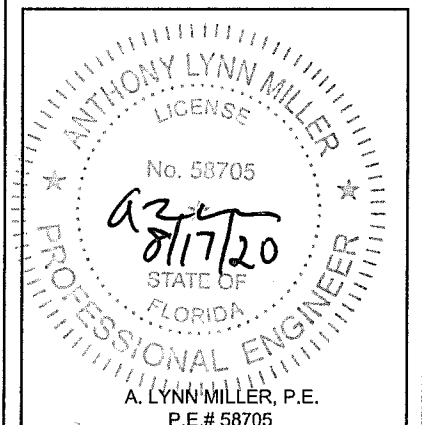


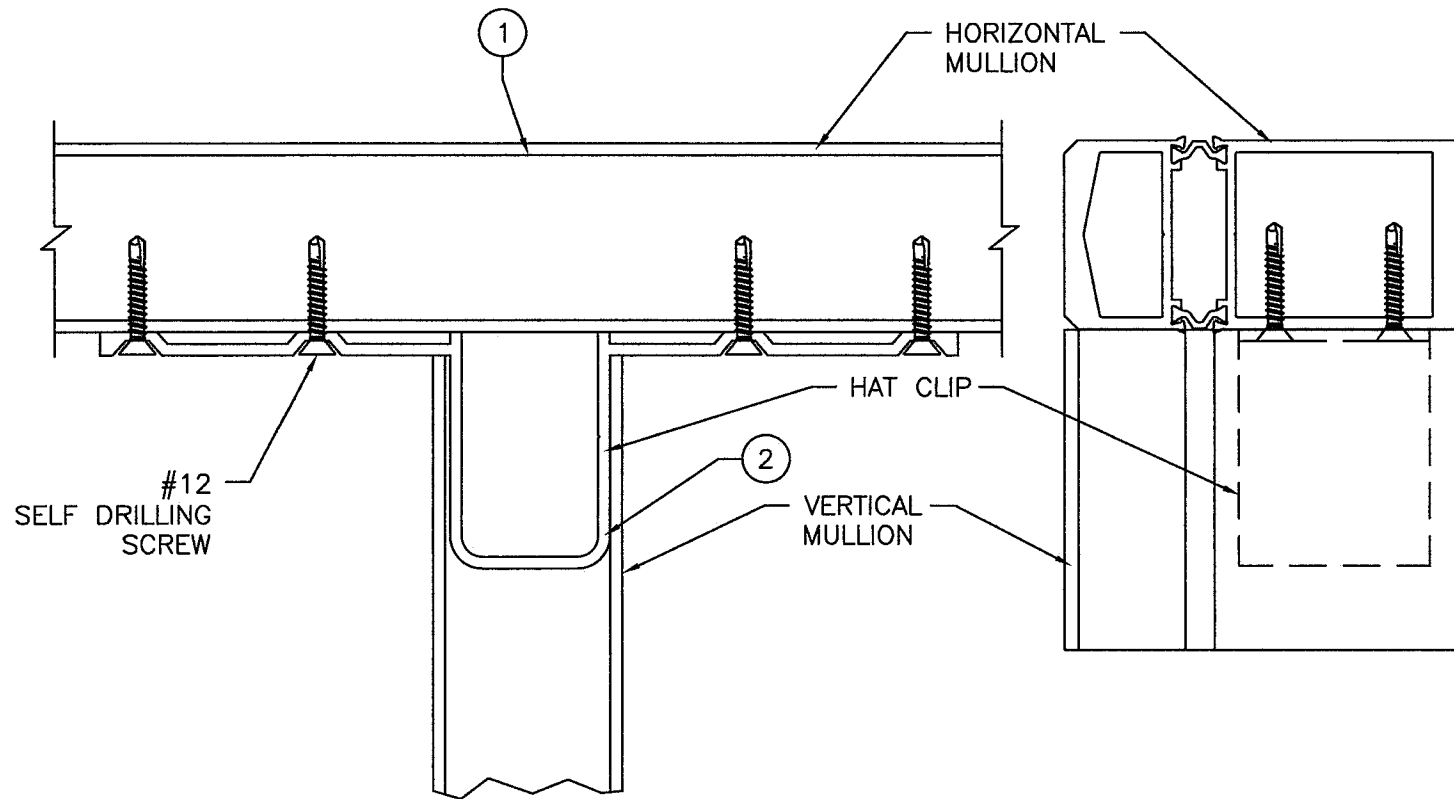
**VERTICAL TO HORIZONTAL MULLION WITH U CLIP**  
**CONNECTION DETAIL**  
VERTICAL TO HORIZONTAL MULLION  
CONNECTION DETAIL  
HORIZONTAL TO VERTICAL MULLION SIMILAR

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Miami-Dade Product Control

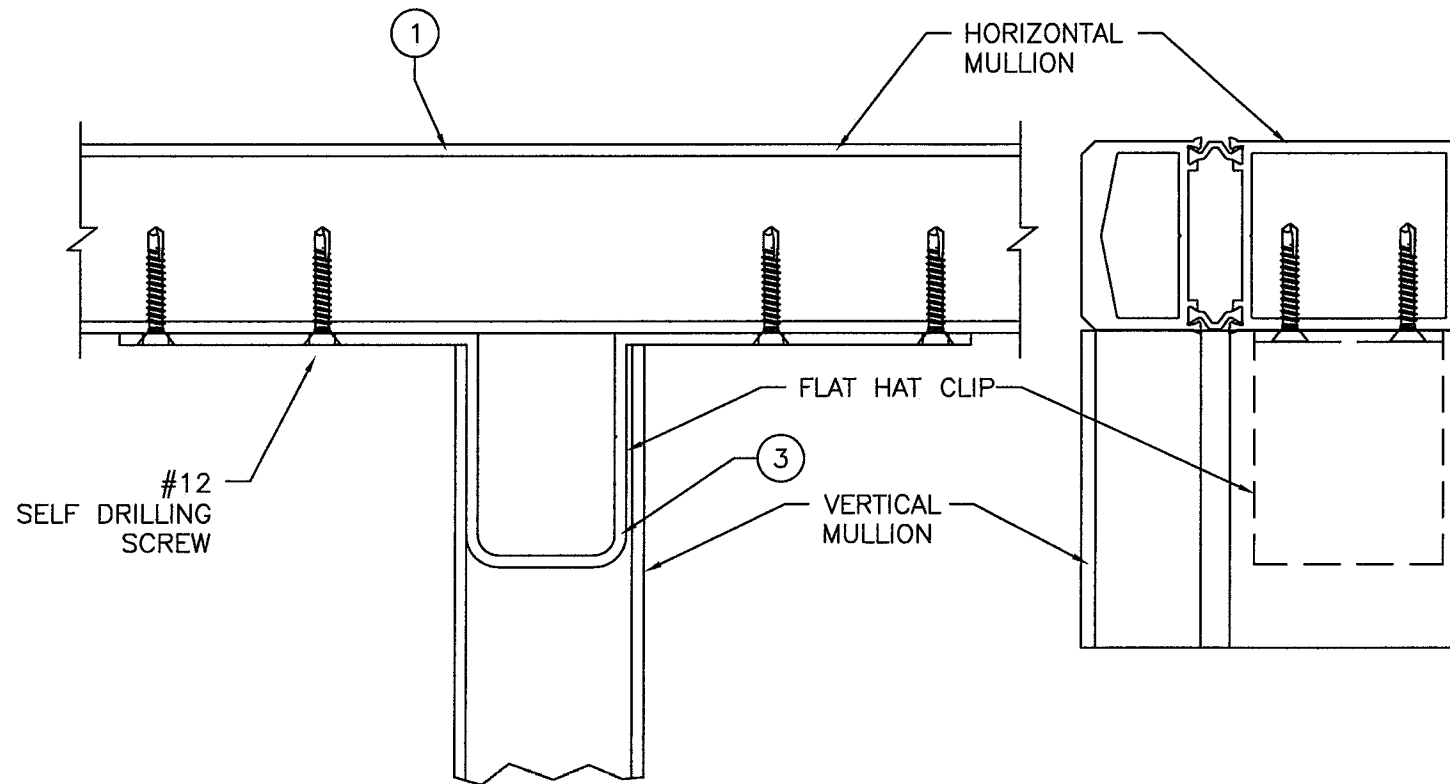
NO CHANGES THIS SHEET.

WINDOOR® INCORPORATED		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296			
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432		2x4-1/8" THERMALLY BROKEN MULLION (LM)		Date	08/14/20
INSTALLATION DETAILS - U-CLIP		ERIN KOSS		Rev.	
MULLION		By		2 TB-LMI-NOA	
13 OF 16		DWG		No.	
Sheet		13 OF 16		DWG	
Series		Desc.		Title	





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

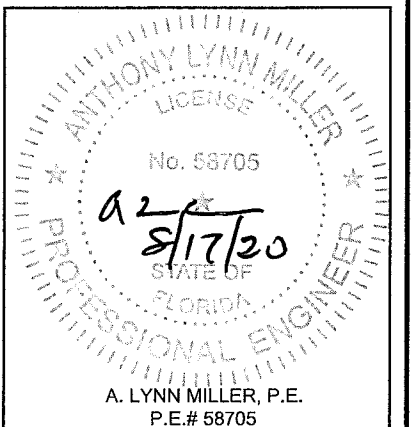


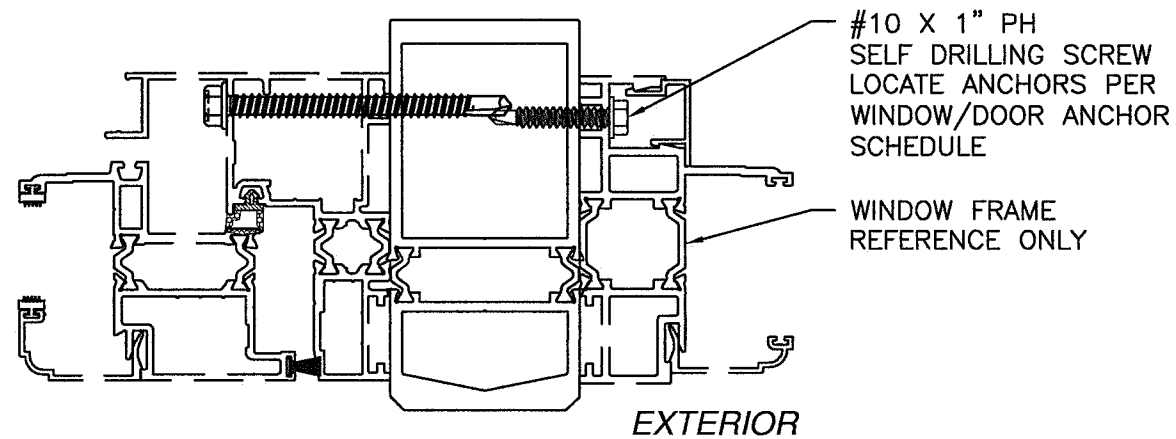
VERTICAL TO HORIZONTAL MULLION WITH FLAT HAT CLIP  
CONNECTION DETAIL  
 VERTICAL TO HORIZONTAL MULLION  
 CONNECTION DETAIL  
 HORIZONTAL TO VERTICAL MULLION SIMILAR

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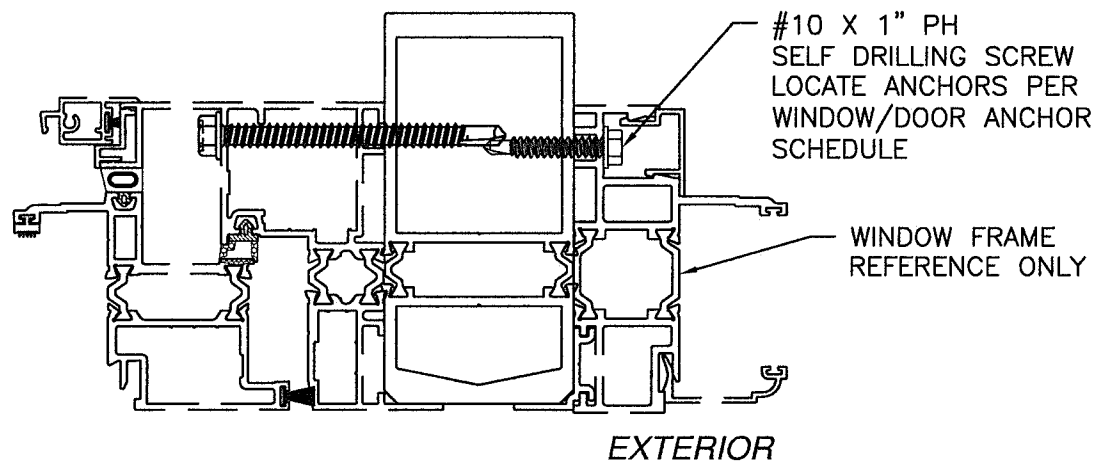
Revision: NO CHANGES THIS SHEET.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	08/14/20		Rev.
	Date	By	ERIN KOSS
	No.	DWG	2 TB-LMI-NOA
	14 OF 16	Sheet	MULLION
2x4-1/8" THERMALLY BROKEN MULLION (LM)			
INSTALLATION DETAILS - HAT CLIP			
WINDOOR <sup>®</sup> INCORPORATED WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432			

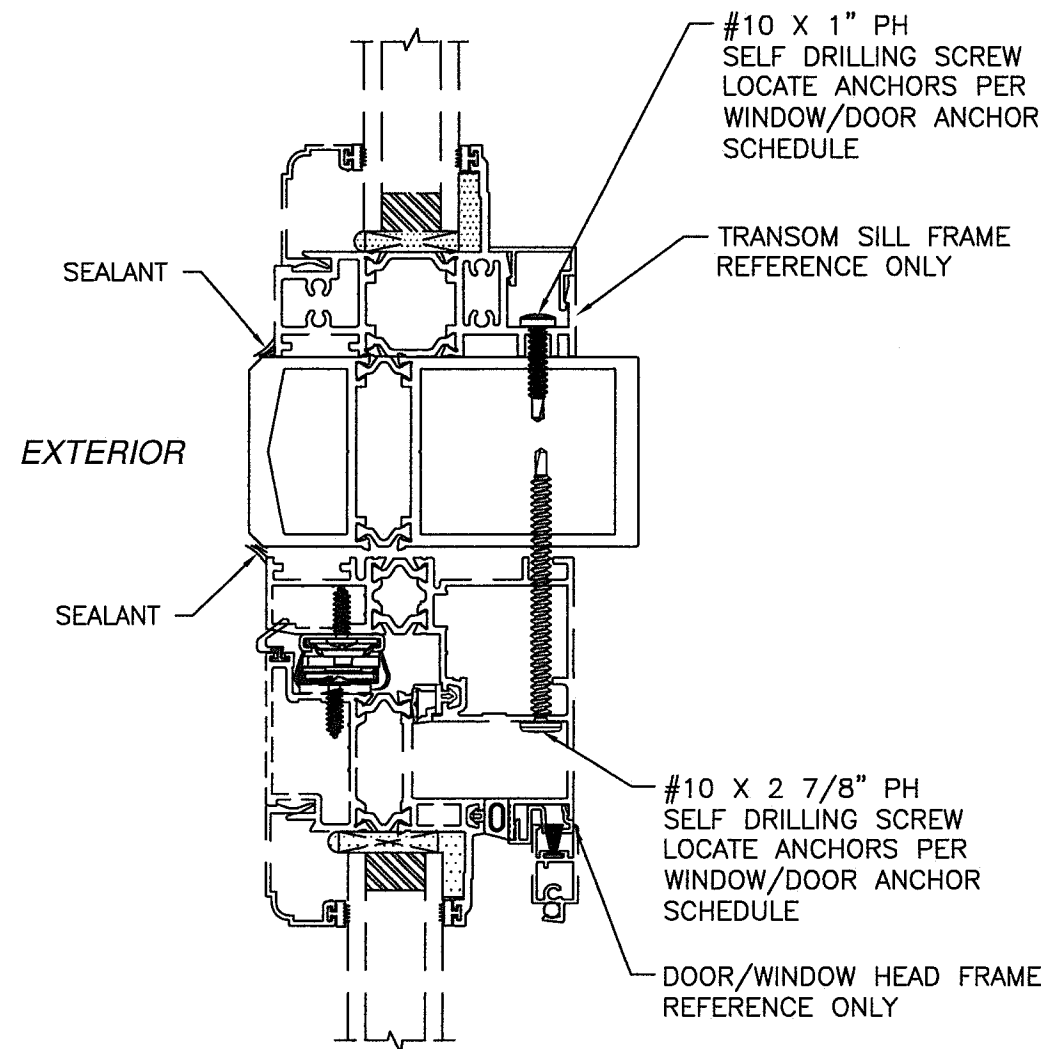





**WINDOW TO MULLION FLUSH INSTALLATION DETAIL**  
WINDOW FRAME SHOWN FOR DETAIL PURPOSES ONLY, MULLION IS NOT LIMITED TO THIS PRODUCT



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

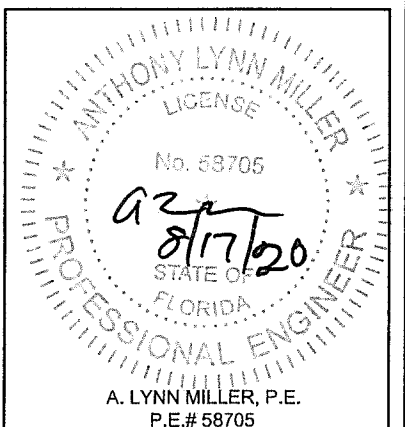


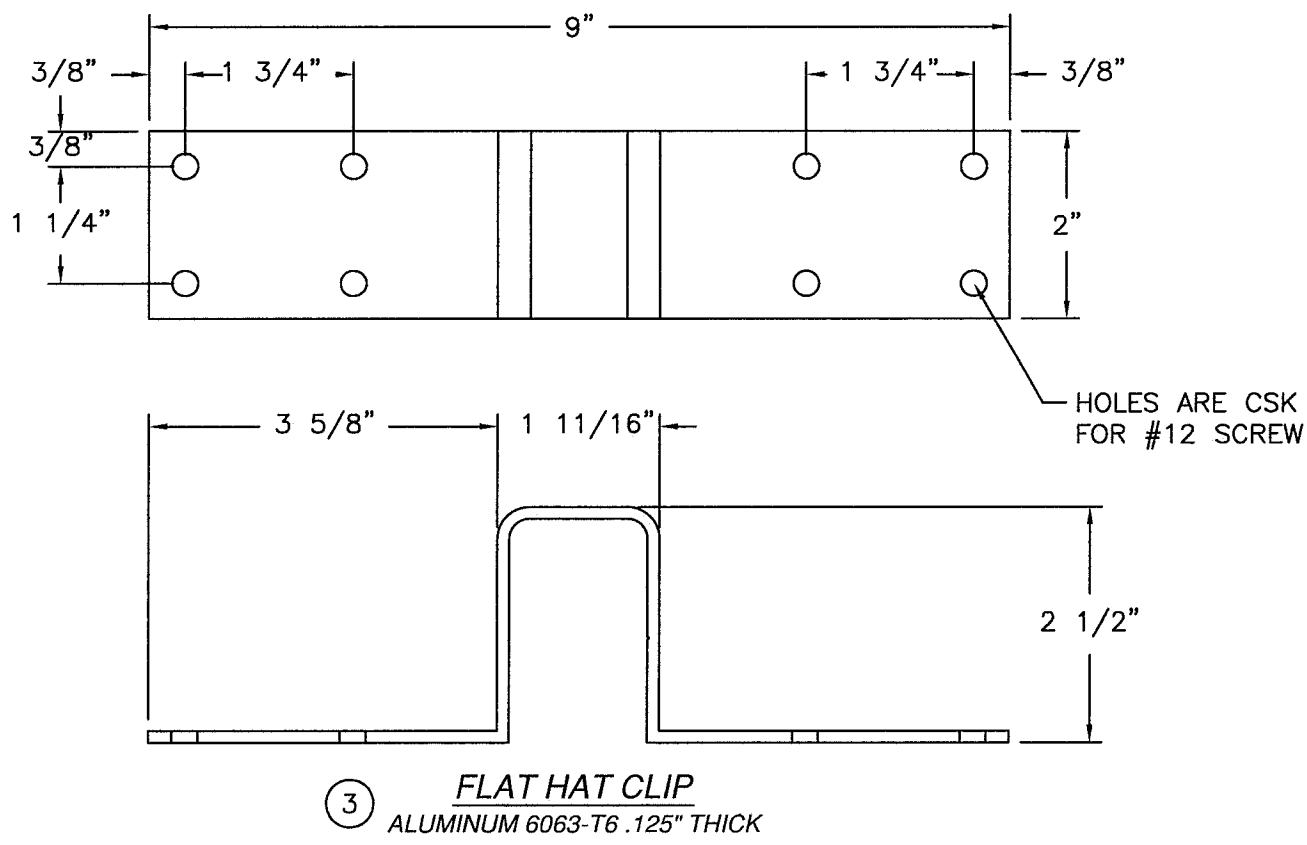
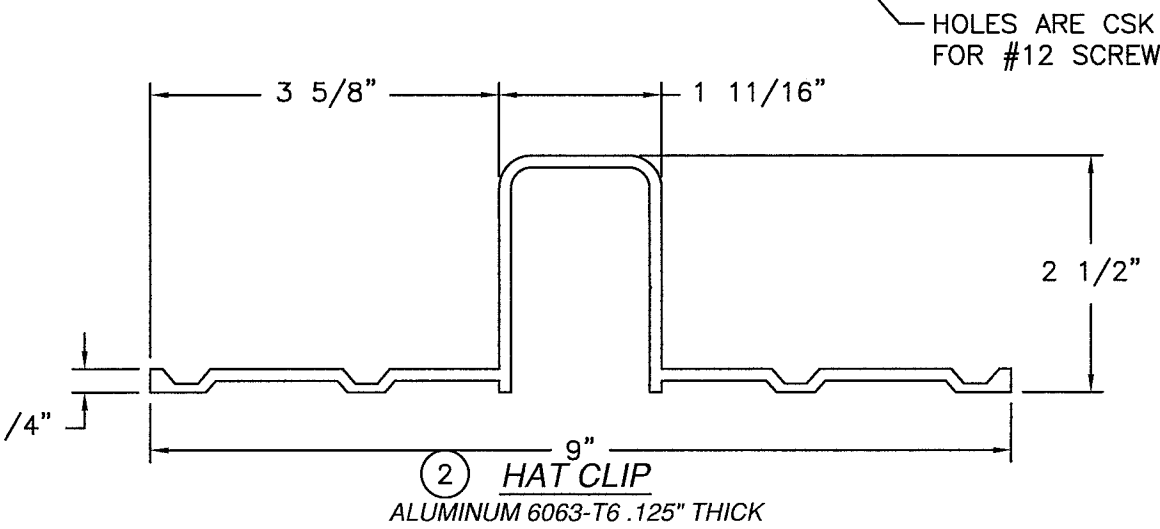
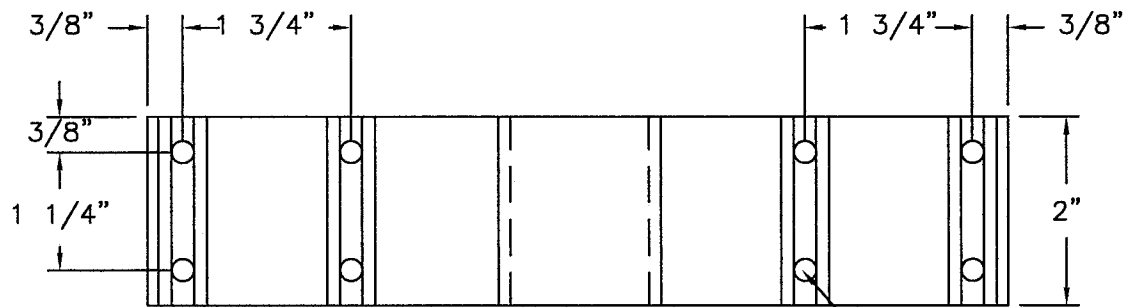
**HORIZONTAL MULLION CONNECTION DETAIL**

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Expiration Date 10/22/2025  
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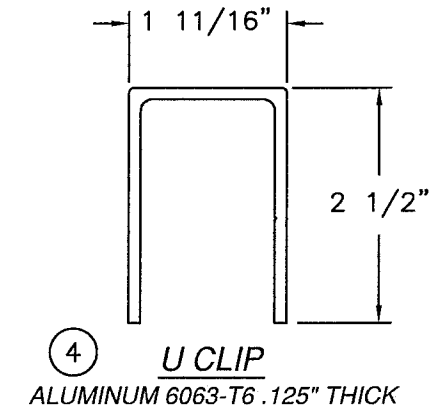
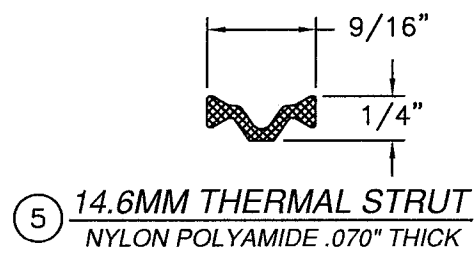
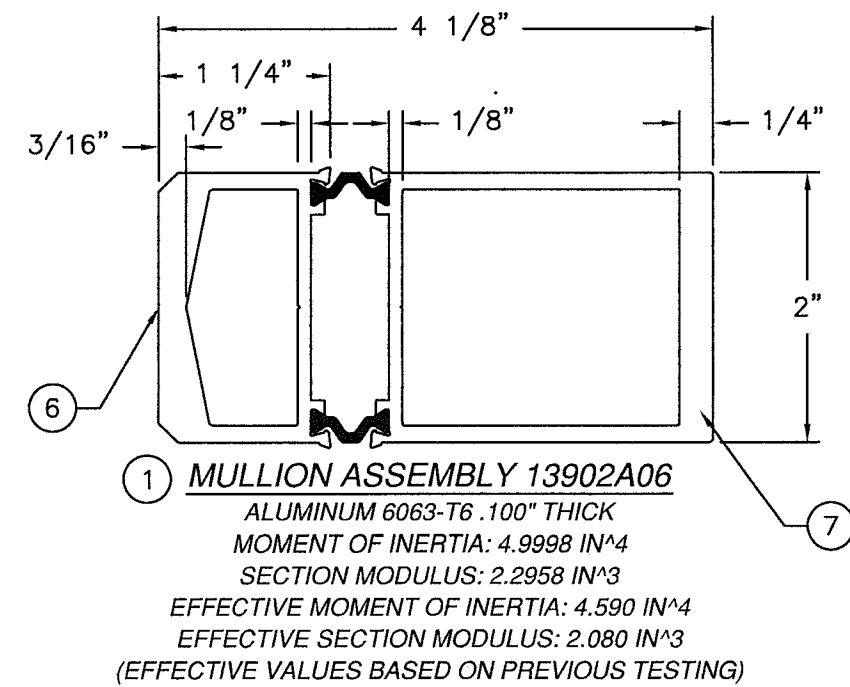
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WINDOOR® INCORPORATED		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	
WINDOOR INCORPORATED 104 TRIPLE DIAMOND BLVD. NORTH VENICE, FL 34275 (833) 554-5432		2x4-1/8" THERMALLY BROKEN MULLION (LM)	
Title		Date	
Series Desc.		By	
MULLION		ERIN KOSS	
Sheet		DWG No.	
15 OF 16		2 TB-LMI-NOA	
Rev.		08/14/20	





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



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**WinDoor®**  
INCORPORATED  
WINDOOR INCORPORATED  
104 TRIPLE DIAMOND BLVD.  
NORTH VENICE, FL 34275  
(833) 554-5432

**ANTHONY LYNN MILLER**  
LICENSE  
No. 58705  
8/17/20  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.  
P.E.# 58705