MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

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 Deep Adjustable 12.5° to 30° Thermally Broken" Clipped Aluminum Tube Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. **ADJ.TB-LMI-NOA**, titled "Series 9000 Deep Adjustable 12.5° to 30° Thermally Broken Mullion (LMI)", sheets 1 through 5 of 5, dated 08/14/20, 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 NOA No. 17-1219.35** and 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.**

MIAMI-DADE COUNTY APPROVED

S.Z.
11/12/2020

WinDoor, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 11-1011.04)

2. Drawing No. ADJ.TB-LMI-NOA, titled "Series 9000 Deep Adjustable 12.5° to 30° Thermally Broken Mullion (LMI)", sheets 1 through 5 of 5, dated 08/14/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201–94
3) Cyclic Wind Pressure Loading per FBC, TAS 203–94
along with marked-up drawings and installation diagram of an adjustable thermally broken aluminum mullion, prepared by National Certified Testing Laboratories, Inc. Test Report No. **NCTL-210-3884-2**, dated 05/30/13, signed and sealed by Gerard J. Ferrara, P.E.
(Submitted under previous NOA No. 11-1011.04)

C. CALCULATIONS:

1. Anchor verification calculations, complying with **FBC 6th Edition (2017)**, dated 11/29/17, signed and sealed by Luis R. Lomas, P.E.
(Submitted under previous NOA No. 17-1219.35)

2. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 07/20/16, revised on 09/22/16, prepared, signed and sealed by Luis R. Lomas, P.E.
(Submitted under previous NOA No. 15-0618.10)

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.
(Submitted under previous NOA No. 11-1011.04)

2. Test Report No. **ATI–61261.01–106-18**, prepared by Architectural Testing, Inc., dated 12/08/05, with revision date 01/04/06, issued to **Technoform**, for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D635–03** "Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position" and ASTM **D2843–99** "Standard Test Method for the Density of Smoke from the Burning Decomposition of Plastics", signed and sealed by Joseph A. Reed, P.E. ***(Submitted under previous NOA No. 11-1011.04)***

Sifang Zhao, P. E.
Product Control Examiner
NOA No. 20-0826.08
Expiration Date: October 03, 2023
Approval Date: November 12, 2020

E. MATERIAL CERTIFICATIONS (CONTINUED)

3. Test Report No. **ETC–07–1043–19094.0**, prepared by ETC Laboratories, dated 02/04/08, issued to Technoform Bautec NA, Inc., for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D638–03** *"Standard Test Methods for Tensile Properties of Plastics"*, for exposed & unexposed sample per Xenon Arc after 4500 Hours, signed and sealed by Joseph Labora Doldan, P.E.
(Submitted under previous NOA No. 11-1011.04)

4. Test Report No. **ETC–08–1043–20974.0**, prepared by ETC Laboratories, dated 07/01/08, issued to Technoform, for their **I-Strut Insulating Strip** comprised of Polyamide with 25% glass fibers, per **ASTM D1929–96** *"Standard Test Method for Ignition Properties of Plastics"*, signed and sealed by Joseph Doldan, P.E.
(Submitted under previous NOA No. 11-1011.04)

F. STATEMENTS

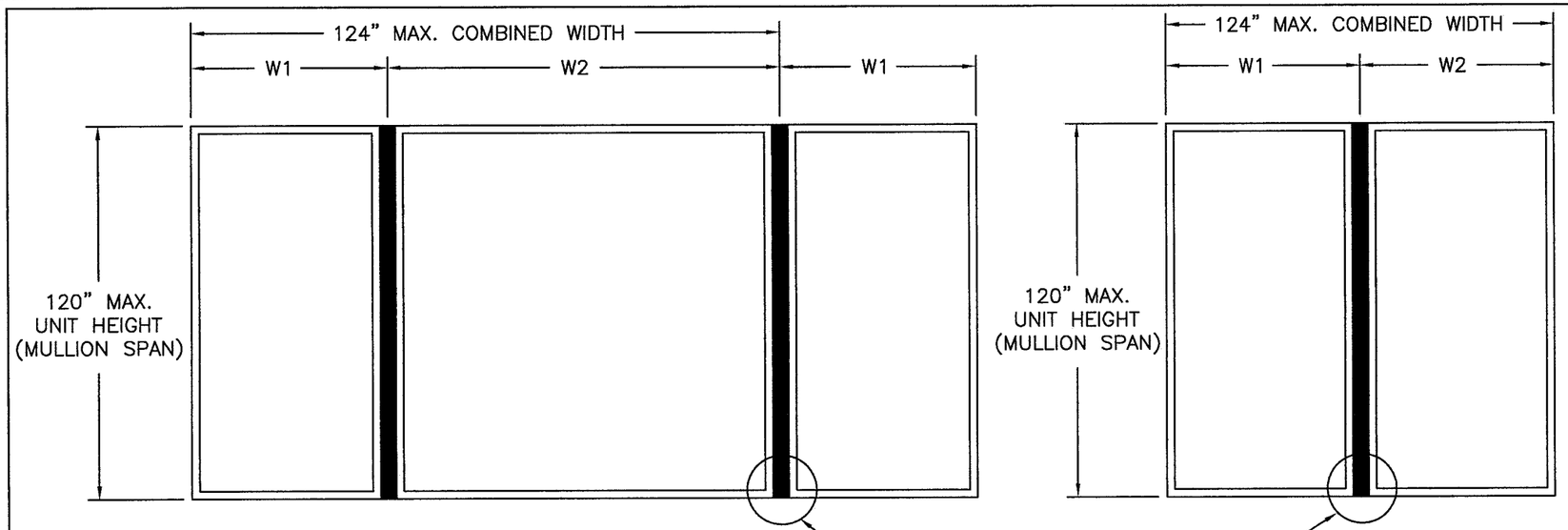
1. Statement letter of conformance, of complying with FBC 6th Edition (2017), and FBC 7th Edition (2020), and of no financial interest, dated August 17, 2020, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

2. Notification of Successor Engineer for manufacturer's NOA document per Section **61G15-27.001** of the Florida Administrative Code, dated August 17, 2020, signed and sealed by Anthony Lynn Miller, P.E.

G. OTHERS

1. Notice of Acceptance No. **17-1219.35**, issued to WinDoor, Inc. for their Series "9000 Adjustable 12.5° to 30°Thermally Broken" Clipped Aluminum Tube Mullion - L.M.I., approved on 02/15/18 and expiring on 10/03/23.

Sifang Zhao, P. E.
Product Control Examiner
NOA No. 20-0826.08
Expiration Date: October 03, 2023
Approval Date: November 12, 2020



Design pressure rating (psf)							
Mullion span (in)	Tributary width/single unit width (in)						
	26.00	32.00	38.00	44.00	50.00	56.00	62.00
	24.00	30.00	36.00	42.00	48.00	54.00	60.00
24.00	167.7	167.7	167.7	167.7	167.7	167.7	167.7
30.00	167.7	167.7	167.7	167.7	167.7	167.7	167.7
36.00	167.7	167.7	167.7	167.7	167.7	167.7	167.7
42.00	167.7	167.7	167.7	167.7	167.7	167.7	167.7
48.00	167.7	167.7	167.7	167.7	167.7	167.7	167.7
54.00	167.7	167.7	167.7	167.7	167.7	167.7	167.7
60.00	167.7	167.7	167.7	167.7	167.7	167.7	161.0
66.00	167.7	167.7	167.7	167.7	167.7	162.1	146.4
72.00	167.7	167.7	167.7	167.7	166.4	148.6	134.2
78.00	167.7	167.7	167.7	167.7	153.6	137.1	123.9
84.00	167.7	167.7	167.7	162.1	142.6	127.3	115.0
90.00	167.7	167.7	167.7	151.3	133.1	118.9	107.4
96.00	167.7	167.7	164.2	141.8	124.8	111.4	100.6
102.00	167.7	167.7	154.6	133.5	117.5	104.9	94.7
108.00	167.7	167.7	146.0	126.1	110.9	99.0	89.5
114.00	167.7	164.2	138.3	119.4	105.1	93.8	84.8
120.00	167.7	156.0	131.4	113.5	99.8	89.1	80.5

LMI AND SMI WIND ZONE 4 & 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.

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

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.
5. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. FENESTRATION UNITS MUST BE APPROVED UNDER SEPARATE APPROVAL.
6. SINGLE FENESTRATION UNITS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. FENESTRATION UNITS 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 FENESTRATION 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.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	ELEVATIONS, NOTES & DP CHART
2	BOM & COMPONENTS
3	ASSEMBLED VIEW & INSTALLATION DETAILS
4-5	INSTALLATION DETAILS

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0826.08
Expiration Date 10/03/2023
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

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

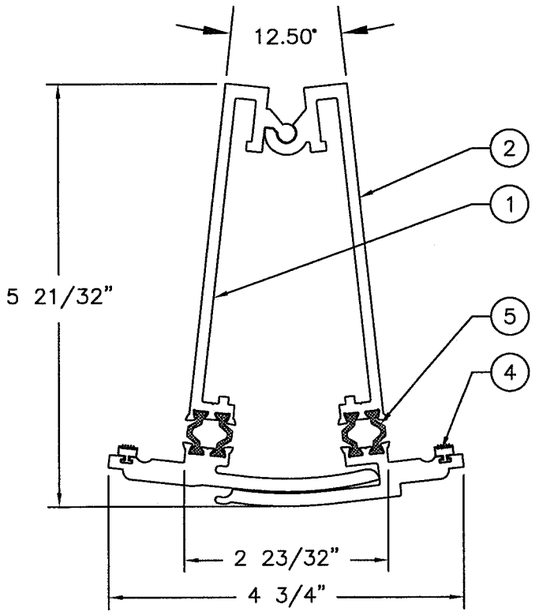
Series	Desc.	Sheet	DWG No.	Rev.
MULLION	ADJUSTABLE THERMALLY BROKEN MULLION (LM) 9000 SERIES DEEP - 12.5° TO 30° SINGLE UNITS MULLED TO SINGLE UNITS & GENERAL NOTES	1 OF 5	ADJ. TB-LMI-NOA	

Title | Date: 08/14/20 | Drawn By: ERIN KOSS

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

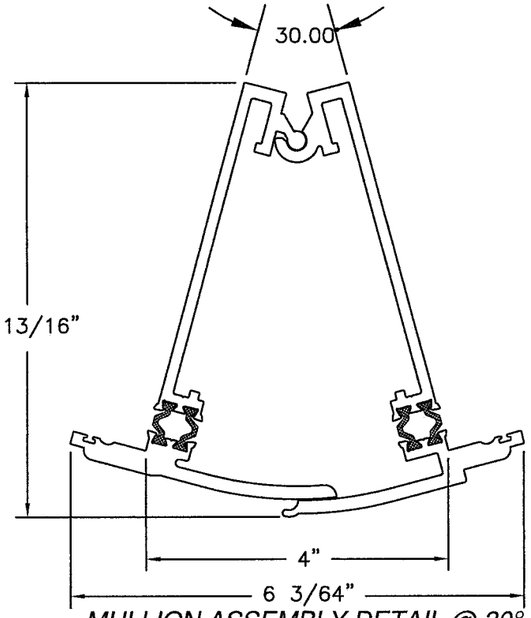
BILL OF MATERIALS

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



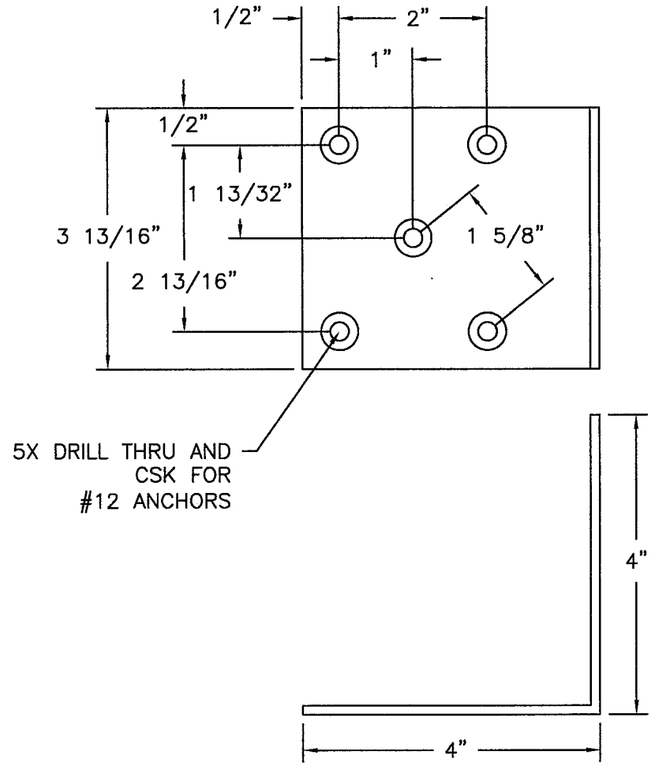
MULLION ASSEMBLY DETAIL @12 1/2°

TOTAL MI = 14.9098
EFFECTIVE MI = 14.522
(EFFECTIVE MI PER TESTING)

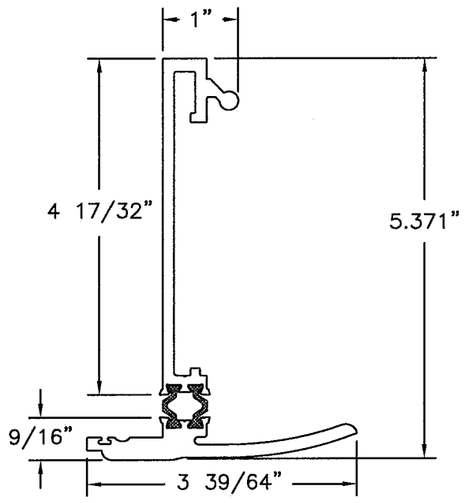


MULLION ASSEMBLY DETAIL @ 30°

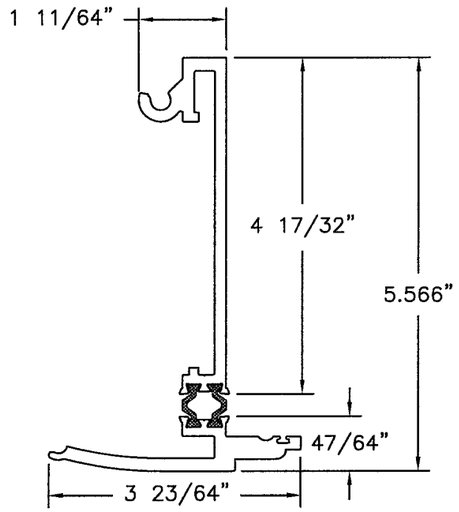
TOTAL MI = 14.9098
EFFECTIVE MI = 14.522
(EFFECTIVE MI PER TESTING)



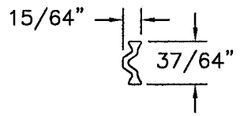
3 *4" x 4" MULL L-CLIP*
ALUMINUM 6105-T5 .125" THICK



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



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



5 *14.6MM THERMAL STRUT*
NYLON POLYAMIDE .070" THICK

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0826.08
Expiration Date 10/03/2023
By
Miami-Dade Product Control

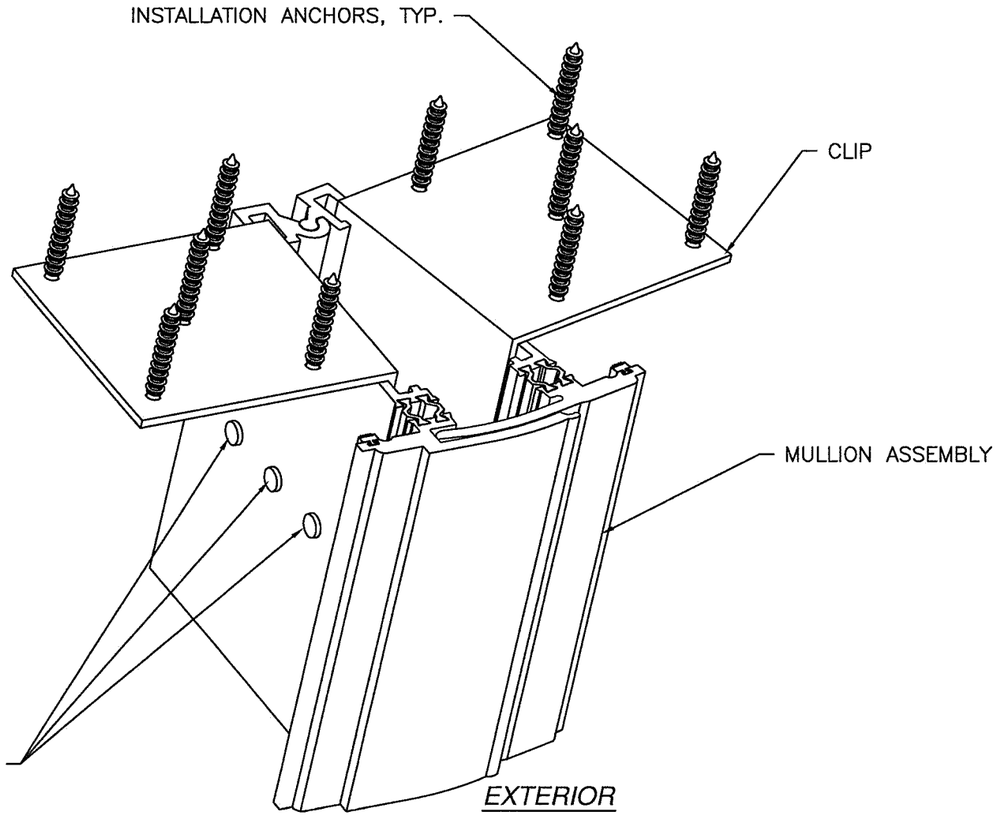
Revision:	NO CHANGES THIS SHEET.

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

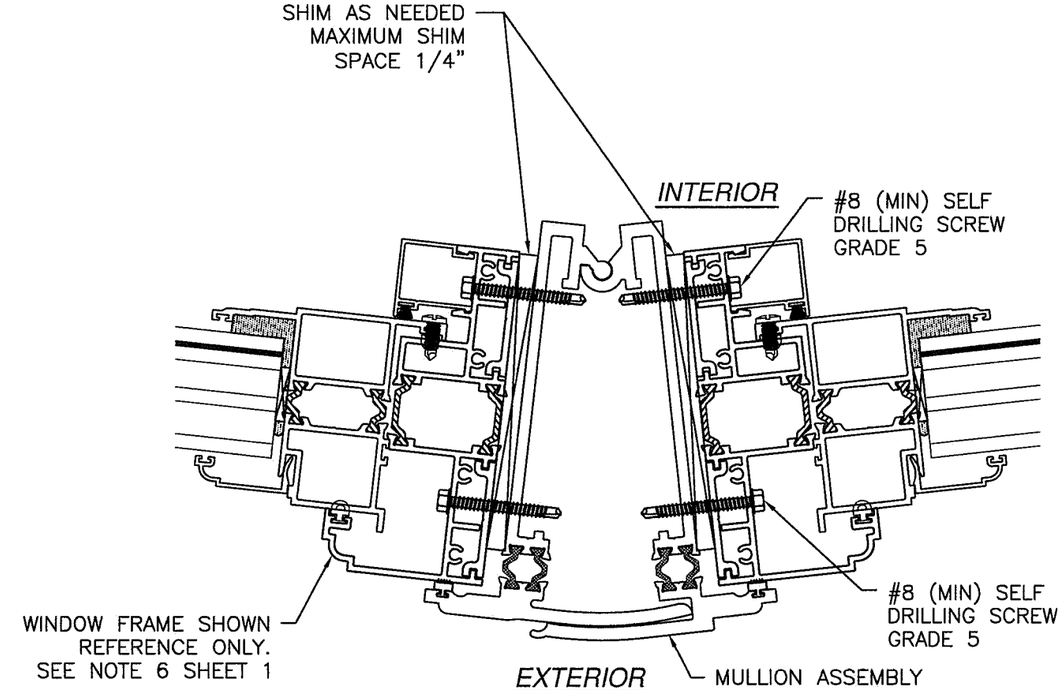
WINDOOR® INCORPORATED
WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD.
NORTH VENICE, FL 34275
(833) 554-5432

Title	ADJUSTABLE THERMALLY BROKEN MULLION
Desc.	9000 SERIES DEEP - 12.5° TO 30°
Series	BOM & EXTRUSIONS
Sheet	MULLION
DWG No.	2 OF 5
Rev.	ADJ. TB-LMI-NOA
Drawn By	ERIN KOSS
Date	08/14/20
Title	JILLION (LM)

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



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



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

PRODUCT REVISED
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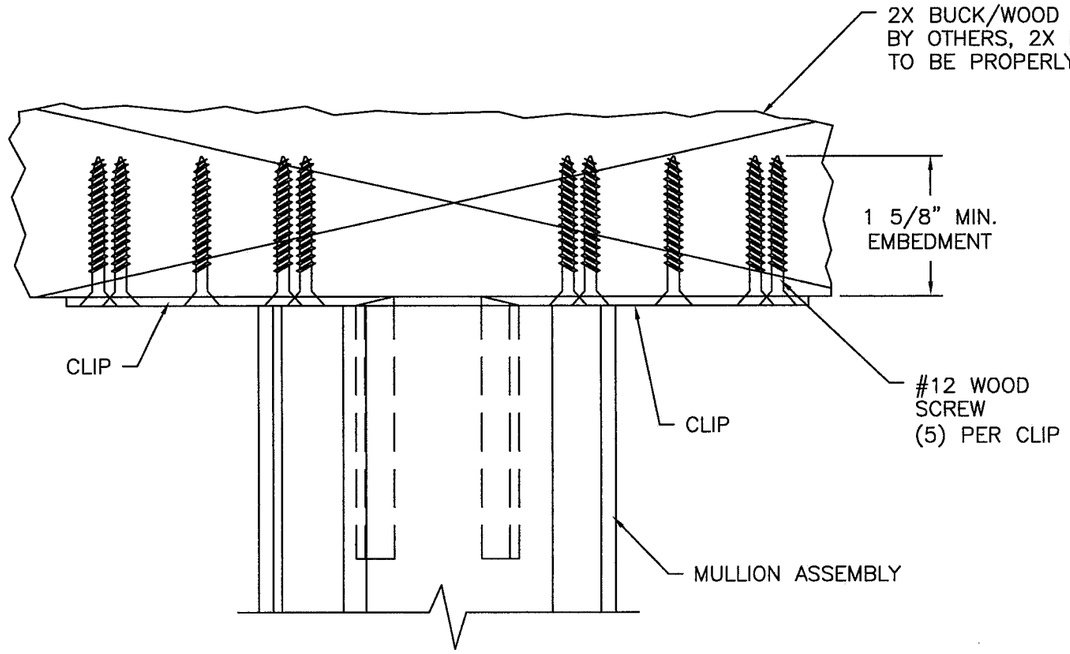
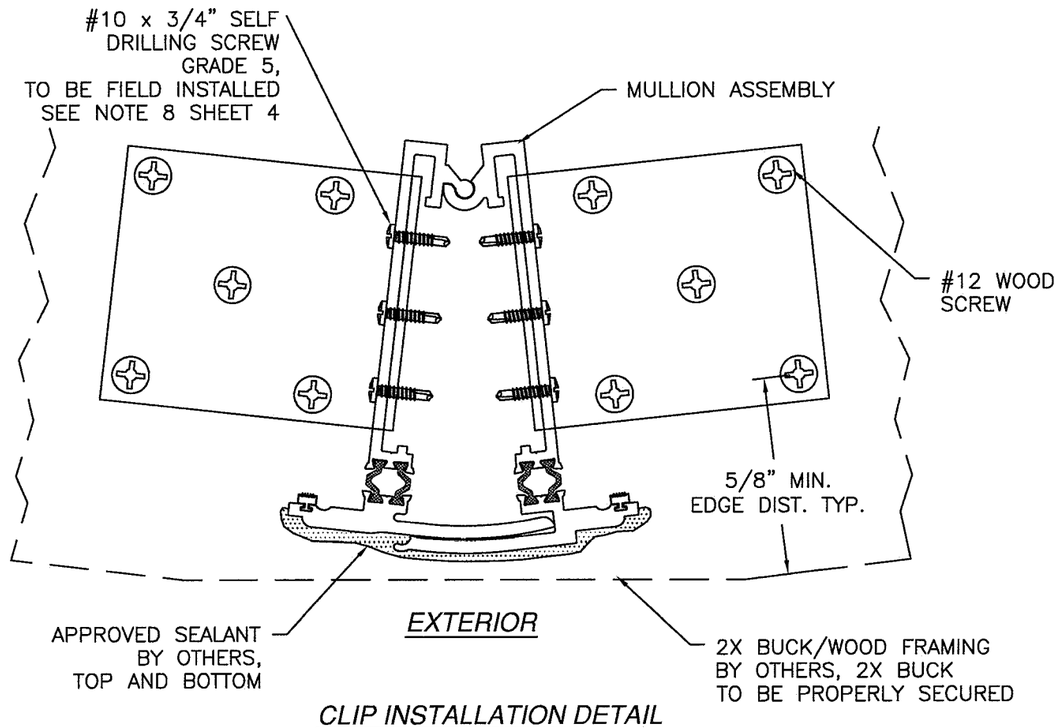
(833) 554-5432

Title	Date	Rev.
ADJUSTABLE THERMALLY BROKEN MULLION (LM)	08/14/20	
9000 SERIES DEEP - 12.5° TO 30°	Drawn By: ERIN KOSS	
ASSEMBLED VIEW & INSTALLATION DETAILS		ADJ. TB-LMI-NOA
Series: MULLION	Sheet: 3 OF 5	DWG No.:

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

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





CLIP INSTALLATION DETAIL

2X BUCK/WOOD FRAMING, TOP & BOTTOM SIMILAR

ANCHORING NOTES:

1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 5/8" MINIMUM EMBEDMENT. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 4.
2. FOR ANCHORING INTO CONCRETE USE 1/4" ELCO CRETE–FLEX TAPCON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 5.
3. FOR ANCHORING INTO 16GA. MINIMUM METAL FRAMING USE #10 ITW TEK SELF DRILLING GRADE 5 SCREW WITH SUFFICIENT LENGTH TO ACHIEVE 3–THREADS MINIMUM BEYOND METAL FRAMING. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEET 5.
4. FOR ATTACHING WINDOW UNITS TO MULLION USE #10 (MIN.) SELF DRILLING SCREWS GRADE 5 WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE MULLION WALL. LOCATE SCREWS 6" FROM EACH MULLION END AND 18" MAX. O.C. THEREAFTER. STAGGER SCREWS AT EACH WINDOW.
5. FOR WINDOW AND DOOR UNITS ANCHORING SCHEDULE REFER TO WINDOW AND DOOR APPROVED INSTALLATION INSTRUCTIONS.
6. ALL FASTENERS TO BE CORROSION RESISTANT.
7. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
   A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
   B. CONCRETE – 3,350 PSI MINIMUM
   C. METAL FRAMING – 16GA. (.063") MINIMUM
8. TO ATTACH MULLION TO CLIP USE (3) #10 x 3/4" SELF DRILLING SCREWS GRADE 5 (Fy=90KSI, Fu=120KSI) PER CLIP. SCREWS MUST BE FIELD INSTALLED. SCREW HOLES ARE NOT PRE–DRILLED BY MANUFACTURER.

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0826.08
Expiration Date 10/03/2023
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

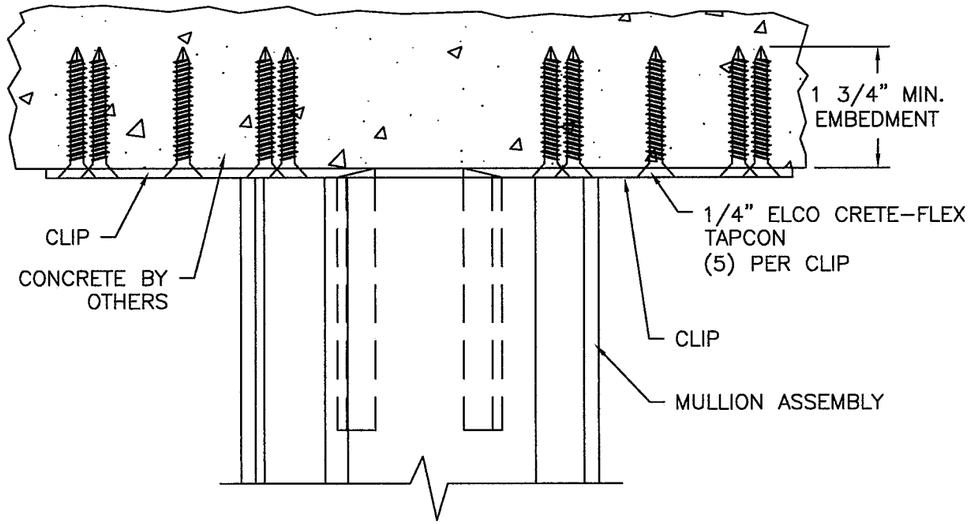
Date: 08/14/20
Drawn By: ERIN KOSS
Rev.:

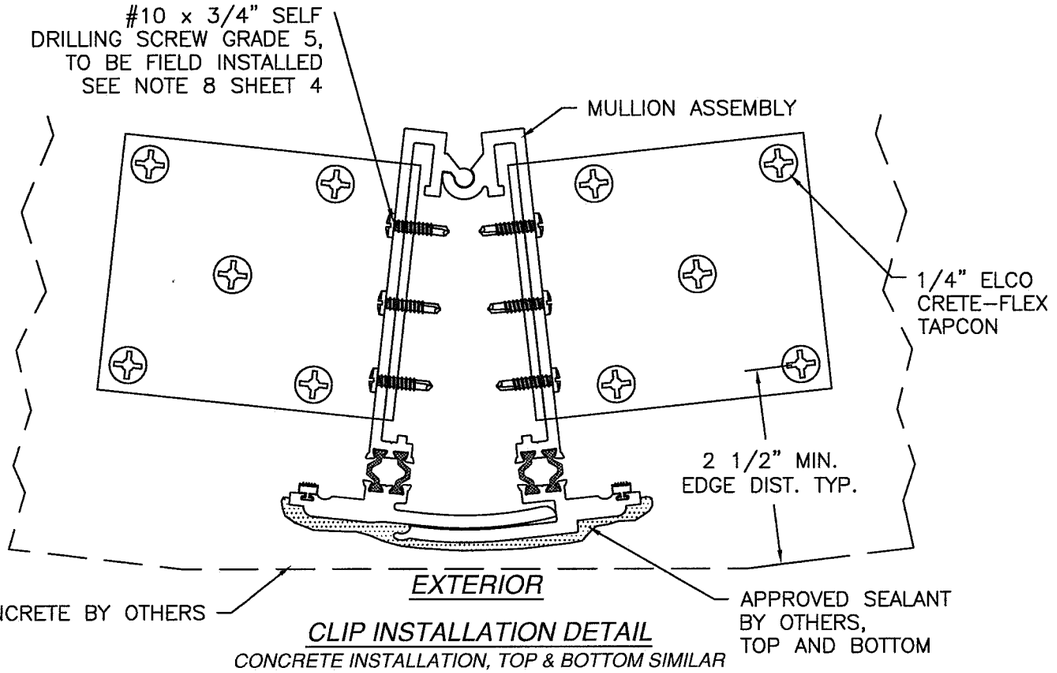
WINDOOR® INCORPORATED
WINDOOR INCORPORATED
104 TRIPLE DIAMOND BLVD.
NORTH VENICE, FL 34275
(833) 554-5432

Title: ADJUSTABLE THERMALLY BROKEN MULLION (LM)
9000 SERIES DEEP - 12.5° TO 30°
Desc.: INSTALLATION DETAILS
Series: MULLION
Sheet No.: 4 OF 5
DWG No.: ADJ. TB-LMI-NOA

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

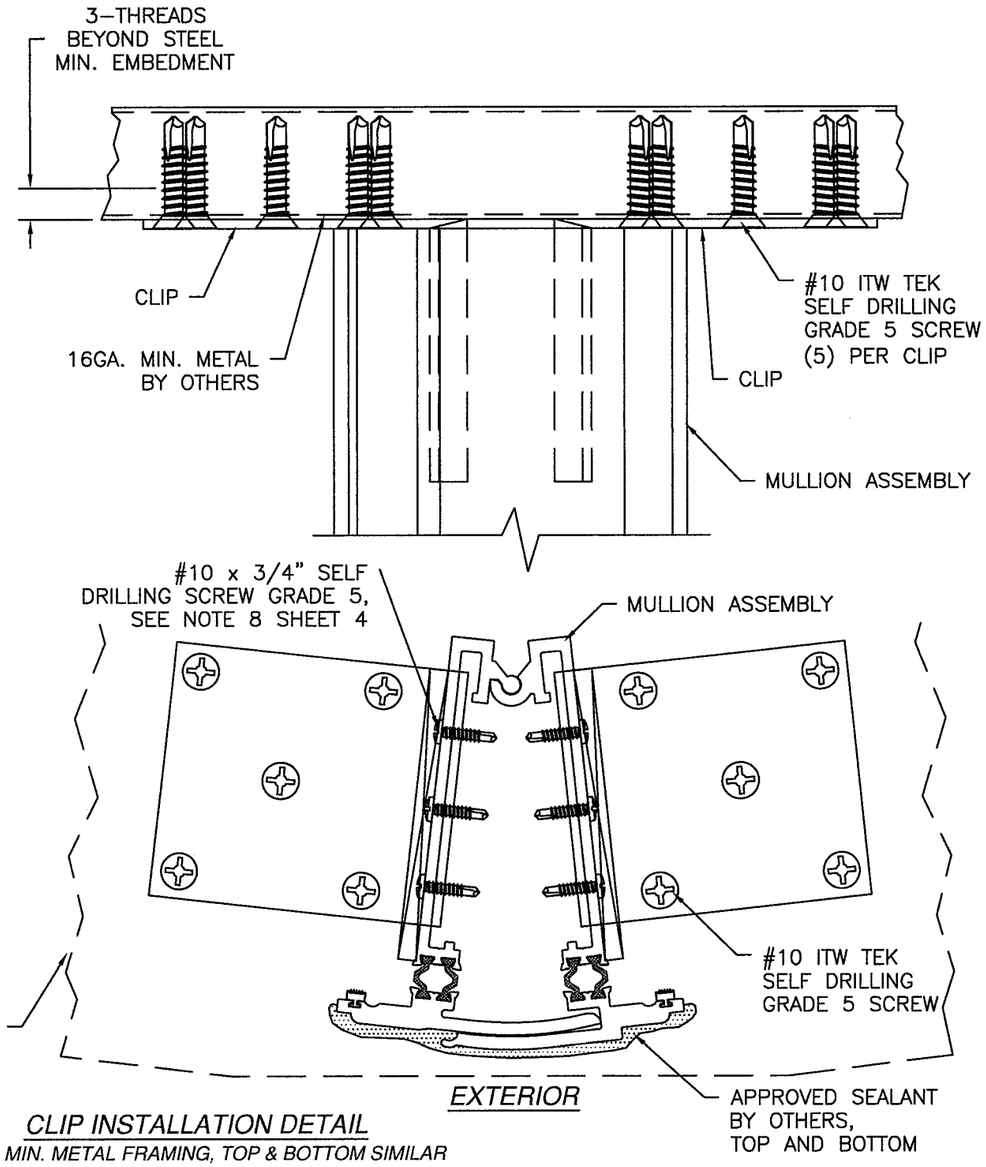
A. LYNN MILLER, P.E.
P.E.# 58705





CLIP INSTALLATION DETAIL

CONCRETE INSTALLATION, TOP & BOTTOM SIMILAR



CLIP INSTALLATION DETAIL

16GA. MIN. METAL FRAMING, TOP & BOTTOM SIMILAR

PRODUCT REVISED
as complying with the Florida Building Code
NOA–No. 20-0826.08
Expiration Date 10/03/2023
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PREPARED BY A. LYNN MILLER
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N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

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(833) 554-5432

Series	Desc. / Title	Sheet	DWG No.	Rev.
MULLION	INSTALLATION DETAILS ADJUSTABLE THERMALLY BROKEN MULLION (LM) 9000 SERIES DEEP - 12.5° TO 30°	5 OF 5	ADJ. TB-LMI-NOA	

Drawn By: ERIN KOSS
Date: 08/14/20

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