

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, FL 33175 T (786) 315-2590 F (786) 315-2599 www.miamidade.gov/economy

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

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 Shallow 2"x 5" Thermally Broken" Mullion - L.M.I.

APPROVAL DOCUMENT: Drawing No. **2x5 TB-LMI-NOA**, titled "9000 Series 2"x5" Thermally Broken Mullion – LMI", sheets 1 through 11 of 11, 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, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises and renews NOA# 18-0725.14 and consists of 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.**



4.2. 10/01/2020

NOA No. 20-0826.01 Expiration Date: October 08, 2025 Approval Date: October 01, 2020

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. **EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

DRAWINGS Α.

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No. 08-02201, titled "9000 Series Shallow Horizontal Mullion – LMI & SMI", sheets 1 through 11 of 11, dated 08/15/13, with revision D dated 07/03/18, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E.

В. **TESTS**

- Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94 1.
 - 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 series 9020 horizontal shallow thermally broken aluminum mullion as a transom to two mulled series 9020 thermally broken aluminum fixed windows, prepared by National Certified Testing Laboratories, Test Report No. NCTL-210-3995-01, dated 01/26/15, signed and sealed by Gerard J. Ferrara, P.E.

C. **CALCULATIONS:**

Anchor verification calculations and structural analysis, complying with FBC 5th 1. Edition (2014), dated 09/11/15, prepared, signed and sealed by Luis R. Lomas, P.E.

D. **OUALITY ASSURANCE**

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

E. MATERIAL CERTIFICATIONS

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

Sifang Zhao, P.E. **Product Control Examiner** NOA No. 20-0826.01 **Expiration Date: October 08, 2025** Approval Date: October 01, 2020

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WinDoor, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC 6th Edition (2017), and of no financial interest, dated 07/03/2018, issued, signed and sealed by Luis R. Lomas, P.E.
- 2. Proposal #11-1698 issued by Product Control on 02/28/12 signed by Manuel Perez, P.E.

G. OTHERS

1. Notice of Acceptance No. 13-0827.09, issued to WinDoor, Inc. for their Series "9000 Shallow 180° Thermally Broken" Clipped, Horizontal Aluminum Tube Mullion - L.M.I., approved on 10/08/15 and expiring on 10/08/20.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

Drawing No. 2x5 TB-LMI-NOA, titled "9000 Series 2"x5" Thermally Broken Mullion – LMI", sheets 1 through 11 of 11, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. None

C. CALCULATIONS

1. None.

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. **18-0725.14**, issued to WinDoor, Inc. for their Series "9000 Shallow 180° Thermally Broken" Clipped, Horizontal Aluminum Tube Mullion - L.M.I., approved on 10/08/15 and expiring on 10/08/20.

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Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0826.01
Expiration Date: October 08, 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.
- 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.

ANCHORING NOTES:

- 1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT WITH 9/16" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
- 2. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" 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.
- 3. FOR ANCHORING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL WITH 7/8" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 4. ALL FASTENERS TO BE CORROSION RESISTANT.
- 5. 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 3,350 PSI.
 - C. MASONRY STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM.

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SHEET NO.	DESCRIPTION
1	NOTES
2-7	ELEVATIONS & DP CHARTS
8	APPROVED CONFIGURATIONS
9	INSTALLATION DETAILS
10-11	BOM & COMPONENTS

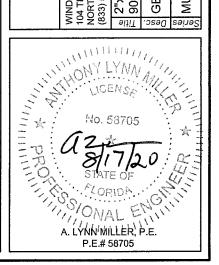
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.01
Expiration Date 10/08/2025

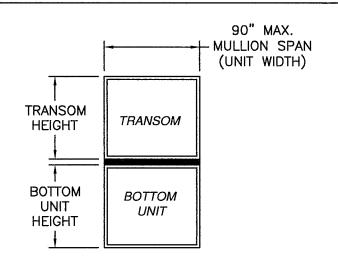
Miami-Dade Product Control

UPDATES FOR 2020 FBC.
UPDATED MANUFACTURING

ADDRESS.

| MINDOOR | PREPARED BY A. LYNN MILLER | 1070 TECHNOLOGY DRIVE | 1070 TECHNOLO





DESIGN PRESSURES SHOWN IN CHARTS ARE FOR POSITIVE AND NEGATIVE DESIGN PRESSURES.

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 18" TRANSOM

	Maximum design pressure capacity chart (psf) Units installed into masonry/concrete substrate												
Heig	ht (in)			Mullion	Span (I	Unit wid	lth) (in)						
Bottom	Transom	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0				
60.0	18.0	175.0	175.0	175.0	166.3	145.0	128.6	115.5	104.8				
66.0	18.0	175.0	175.0	175.0	165.4	142.9	125.8	112.4	101.5				
72.0	18.0	175.0	175.0	175.0	165.4	142.2	124.2	110.3	99.1				
78.0	18.0	175.0	175.0	175.0	165.4	142.2	123.7	109.0	97.5				
84.0	18.0	175.0	175.0	175.0	165.4	142.2	123.7	108.6	96.5				
90.0	18.0	175.0	175.0	175.0	165.4	142.2	123.7	108.6	96.2				
96.0	18.0	175.0	175.0	175.0	165.4	142.2	123.7	108.6	96.2				
102.0	18.0	175.0	175.0	175.0	165.4	142.2	123.7	108.6	96.2				
108.0	18.0	175.0	175.0	175.0	165.4	142.2	123.7	108.6	96.2				
114.0	18.0	175.0	175.0	175.0	165.4	142.2	123.7	108.6	96.2				
120.0	18.0	175.0	175.0	175.0	165.4	142.2	123.7	108.6	96.2				

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

> CHART 2 24" TRANSOM

	Maximum design pressure capacity chart (psf)													
	Units installed into masonry/concrete substrate													
Height (in) Mullion Span (Unit width) (in)														
Bottom	Transom	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0					
60.0	24.0	175.0	175.0	175.0	153.3	133.8	118.7	106.7	96.8					
66.0	24.0	175.0	175.0	175.0	152.5	132.0	116.4	104.0	94.1					
72.0	24.0	175.0	175.0	175.0	152.5	131.4	115.0	102.2	92.0					
78.0	24.0	175.0	175.0	175.0	152.5	131.4	114.6	101.2	90.6					
84.0	24.0	175.0	175.0	175.0	152.5	131.4	114.6	100.8	89.8					
90.0	24.0	175.0	175.0	175.0	152.5	131.4	114.6	100.8	89.5					
96.0	24.0	175.0	175.0	175.0	152.5	131.4	114.6	100.8	89.5					
102.0	24.0	175.0	175.0	175.0	152.5	131.4	114.6	100.8	89.5					
108.0	24.0	175.0	175.0	175.0	152.5	131.4	114.6	100.8	89.5					
114.0	24.0	175.0	175.0	175.0	152.5	131.4	114.6	100.8	89.5					
120.0	24.0	175.0	175.0	175.0	152.5	131.4	114.6	100.8	89.5					

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

CHART 3 30" TRANSOM

	Maximum design pressure capacity chart (psf)													
	Units installed into masonry/concrete substrate													
Heig	ht (in)			Mullion	Span (Jnit wid	lth) (in)							
Bottom	Transom	48.0	3.0 54.0 60.0 66.0 72.0 78.0 84.0 90											
60.0	30.0	175.0	175.0	168.2	143.6	125.3	111.1	99.8	90.6					
66.0	30.0	175.0	175.0	168.2	142.9	123.7	109.0	97.5	88.1					
72.0	30.0	175.0	175.0	168.2	142.9	123.2	107.8	95.9	86.3					
78.0	30.0	175.0	175.0	168.2	142.9	123.2	107.4	95.0	85.1					
84.0	30.0	175.0	175.0	168.2	142.9	123.2	107.4	94.7	84.4					
90.0	30.0	175.0	175.0	168.2	142.9	123.2	107.4	94.7	84.1					
96.0	30.0	175.0	175.0	168.2	142.9	123.2	107.4	94.7	84.1					
102.0	30.0	175.0	175.0	168.2	142.9	123.2	107.4	94.7	84.1					
108.0	30.0	175.0	175.0	168.2	142.9	123.2	107.4	94.7	84.1					
114.0	30.0	175.0	175.0	168.2	142.9	123.2	107.4	94.7	84.1					
120.0	30.0	175.0	175.0	168.2	142.9	123.2	107.4	94.7	84.1					

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

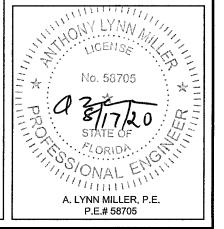
> CHART 4 36" TRANSOM

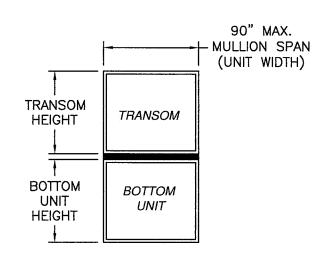
	Max	imum e	design	pressu	re cap	acity c	hart (p	sf)	
	Units	install	led into	o maso	nry/coi	ncrete	subst	rate	
Heig	ht (in)			Mullion	Span (Unit wic	lth) (in)		
Bottom	Transom	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0
60.0	36.0	175.0	175.0	160.0	136.3	118.7	105.1	94.4	85.6
66.0	36.0	175.0	175.0	160.0	135.7	117.3	103.3	92.3	83.4
72.0	36.0	175.0	175.0	160.0	135.7	116.8	102.2	90.9	81.8
78.0	36.0	175.0	175.0	160.0	135.7	116.8	101.9	90.0	80.7
84.0	36.0	175.0	175.0	160.0	135.7	116.8	101.9	89.8	80.0
90.0	36.0	175.0	175.0	160.0	135.7	116.8	101.9	89.8	79.8
96.0	36.0	175.0	175.0	160.0	135.7	116.8	101.9	89.8	79.8
102.0	36.0	175.0	175.0	160.0	135.7	116.8	101.9	89.8	79.8
108.0	36.0	175.0	175.0	160.0	135.7	116.8	101.9	89.8	79.8
114.0	36.0	175.0	175.0	160.0	135.7	116.8	101.9	89.8	79.8
120.0	36.0	175.0	175.0	160.0	135.7	116.8	101.9	89.8	79.8

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.** 20-0826.01 **Expiration Date** 10/08/2025 Miami-Dade Product Control

	NO	CHANGES	THIS	SHEET.	
evision:					
Revi					
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DESIGN PRESSURES SHOWN IN CHARTS ARE FOR POSITIVE AND NEGATIVE DESIGN PRESSURES.

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 RÉQUIRED 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 5 18" TRANSOM

	Maximum design pressure capacity chart (psf)													
	Units installed into wood or metal substrate													
Height (in) Mullion Span (Unit width) (in)														
Bottom	Transom	48.0	3.0 54.0 60.0 66.0 72.0 78.0 84.0 90.0											
60.0	18.0	175.0	175.0	175.0	175.0	175.0	175.0	159.9	136.5					
66.0	18.0	175.0	175.0	175.0	175.0	175.0	175.0	153.9	130.7					
72.0	18.0	175.0	175.0	175.0	175.0	175.0	175.0	149.7	126.4					
78.0	18.0	175.0	175.0	175.0	175.0	175.0	175.0	147.3	123.4					
84.0	18.0	175.0	175.0	175.0	175.0	175.0	175.0	146.4	121.5					
90.0	18.0	175.0	175.0	175.0	175.0	175.0	175.0	146.4	120.9					
96.0	18.0	175.0	175.0	175.0	175.0	175.0	175.0	146.4	120.9					
102.0	18.0	175.0	175.0	175.0	175.0	175.0	175.0	146.4	120.9					
108.0	18.0	175.0	175.0	175.0	175.0	175.0	175.0	146.4	120.9					
114.0	18.0	175.0	175.0	175.0	175.0	175.0	175.0	146.4	120.9					
120.0	18.0	175.0	175.0	175.0	175.0	175.0	175.0	146.4	120.9					

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT MISSILE LEVEL D, WIND ZONE 4 AND HVHZ CHART 7 30" TRANSOM

	Maximum design pressure capacity chart (psf)												
	Units installed into wood or metal substrate												
Heig	Height (in) Mullion Span (Unit width) (in)												
Bottom	Transom	48.0	8.0 54.0 60.0 66.0 72.0 78.0 84.0										
60.0	30.0	175.0	175.0	175.0	175.0	175.0	163.3	137.5	117.5				
66.0	30.0	175.0	175.0	175.0	175.0	175.0	158.9	133.0	113.2				
72.0	30.0	175.0	175.0	175.0	175.0	175.0	156.4	129.9	109.9				
78.0	30.0	175.0	175.0	175.0	175.0	175.0	155.5	128.0	107.6				
84.0	30.0	175.0	175.0	175.0	175.0	175.0	155.5	127.4	106.3				
90.0	30.0	175.0	175.0	175.0	175.0	175.0	155.5	127.4	105.8				
96.0	30.0	175.0	175.0	175.0	175.0	175.0	155.5	127.4	105.8				
102.0	30.0	175.0	175.0	175.0	175.0	175.0	155.5	127.4	105.8				
108.0	30.0	175.0	175.0	175.0	175.0	175.0	155.5	127.4	105.8				
114.0	30.0	175.0	175.0	175.0	175.0	175.0	155.5	127.4	105.8				
120.0	30.0	175.0	175.0	175.0	175.0	175.0	155.5	127.4	105.8				

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

CHART 6 24" TRANSOM

	Maximum design pressure capacity chart (psf)													
	Units installed into wood or metal substrate													
Heigl	Height (in) Mullion Span (Unit width) (in)													
Bottom	Transom	48.0	3.0 54.0 60.0 66.0 72.0 78.0 84.0 90.0											
60.0	24.0	175.0	175.0	175.0	175.0	175.0	175.0	147.6	126.2					
66.0	24.0	175.0												
72.0	24.0	175.0	75.0 175.0 175.0 175.0 175.0 167.4 138.9 117.4											
78.0	24.0	175.0	175.0 175.0 175.0 175.0 175.0 166.4 136.8											
84.0	24.0	175.0	175.0	175.0	175.0	175.0	166.4	136.0	113.2					
90.0	24.0	175.0	175.0	175.0	175.0	175.0	166.4	136.0	112.7					
96.0	24.0	175.0	175.0	175.0	175.0	175.0	166.4	136.0	112.7					
102.0	24.0	175.0	175.0	175.0	175.0	175.0	166.4	136.0	112.7					
108.0	24.0	175.0	175.0 175.0 175.0 175.0 175.0 166.4 136.0 112.7											
114.0	24.0	175.0	175.0 175.0 175.0 175.0 175.0 166.4 136.0 112.											
120.0	24.0	175.0	175.0	175.0	175.0	175.0	166.4	136.0	112.7					

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT MISSILE LEVEL D, WIND ZONE 4 AND HVHZ CHART 8 36" TRANSOM

	Max	imum (design	pressu	ıre cap	acity c	hart (p	sf)	
	Uni	its inst	alled in	nto woo	od or n	netal si	ubstra	te	
Heig	ht (in)			Mullion	Span (Unit wid	lth) (in)	, ,	
Bottom	Transom	48.0	54.0	60.0	66.0	72.0	78.0	84.0	90.0
60.0	36.0	175.0	175.0	175.0	175.0	175.0	153.4	129.1	110.4
66.0	36.0	175.0	175.0	175.0	175.0	175.0	149.6	125.2	106.6
72.0	36.0	175.0	175.0	175.0	175.0	175.0	147.3	122.4	103.7
78.0	36.0	175.0	175.0	175.0	175.0	175.0	146.5	120.8	101.6
84.0	36.0	175.0	175.0	175.0	175.0	175.0	146.5	120.2	100.4
90.0	36.0	175.0	175.0	175.0	175.0	175.0	146.5	120.2	100.0
96.0	36.0	175.0	175.0	175.0	175.0	175.0	146.5	120.2	100.0
102.0	36.0	175.0	175.0	175.0	175.0	175.0	146.5	120.2	100.0
108.0	36.0	175.0	175.0	175.0	175.0	175.0	146.5	120.2	100.0
114.0	36.0	175.0	175.0	175.0	175.0	175.0	146.5	120.2	100.0
120.0	36.0	175.0	175.0	175.0	175.0	175.0	146.5	120.2	100.0

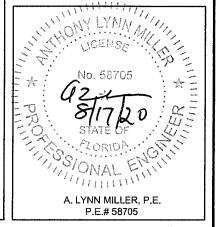
IMPACT RATING: LARGE AND SMALL MISSILE IMPACT MISSILE LEVEL D, WIND ZONE 4 AND HVHZ PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.01

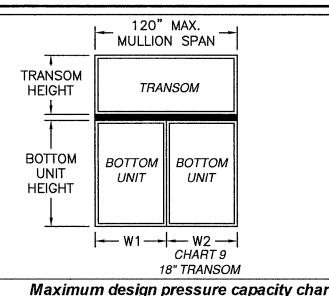
Expiration Date 10/08/2025

By
Miami-Dade Product Control

NO CHANGES THIS SHEET.

| MINDOR INCORPORATED | PREPARED BY A. LYNN MILLER | 1070 TECHNOLOGY DRIVE |





Height (in)

Window Transom

60.00

66.00

72.00

78.00

84.00

90.00

96.00

102.00

108.00

114.00

120.00

DESIGN PRESSURES SHOWN IN CHARTS ARE FOR POSITIVE AND NEGATIVE DESIGN PRESSURES.

DESIGN PRESSURE TABLE INSTRUCTIONS:

- 1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
- DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
- 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.
- 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.

TRIBUTARY WIDTH =

6. WINDOW/DOOR AND TRANSOMS TO BE ANCHORED ON ALL FOUR SIDES.

CHART 11 30" TRANSOM

			18" I F	RANSOM							
- 1	Maximui	m desig	ın pres	sure ca	pacity	chart	(psf)			Maximui	m desig
L	Inits ins	talled in	ito mas		L	Inits ins	talled in				
igł	nt (in)	48.00	60.00	72.00	84.00	96.00	108.00	120.00	Heigl	nt (in)	48.00
				Tributa							
W	Transom	24.00	30.00	36.00	60.00	Window	Transom	24.00			
	18.00	175.0	167.3	134.4	60.00	30.00	175.0				
	18.00	175.0	158.3	127.4	66.00	30.00	175.0				
	18.00	175.0	150.2	121.2	100.8	85.8	67.7	48.8	72.00	30.00	175.0
	18.00	175.0	142.9	115.5	96.2	82.0	64.0	46.2	78.00	30.00	168.2
	18.00	175.0	136.3	110.3	92.0	78.5	60.7	43.8	84.00	30.00	160.9
	18.00	168.2	130.3	105.5	88.1	75.3	57.7	41.7	90.00	30.00	154.1
	18.00	160.9	124.7	101.2	84.6	72.3	55.0	39.8	96.00	30.00	147.9
)	18.00	154.1	119.7	97.2	38.0	102.00	30.00	142.2			
)	18.00	147.9	115.0	93.5	36.4	108.00	30.00	136.9			
)	18.00	142.2	110.7	90.0	34.9	114.00	30.00	132.0			
)	18.00	136.9	106.7	86.8	72.9	60.0	46.4	33.5	120.00	30.00	127.4

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

CHART 10 24" TRANSOM

	Maximu	m desig	n pres	sure ca	pacity	chart	(psf)			
L	Units installed into masonry/concrete substrate									
				Mullic	n Span	(in)				
Heigl	nt (in)	48.00	60.00	72.00	84.00	96.00	108.00	120.00		
				Tributa	ry widt	h (in)				
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00		
60.00	24.00	175.0	155.8	124.7	103.3	87.6	71.0	51.1		
66.00	24.00	175.0	147.9	118.7	98.5	83.6	66.9	48.2		
72.00	24.00	175.0	140.9	113.2	94.1	80.0	63.3	45.7		
78.00	24.00	175.0	134.4	108.2	90.0	76.7	60.1	43.4		
84.00	24.00	167.3	128.6	103.7	86.3	73.6	57.2	41.3		
90.00	24.00	160.0	123.2	99.5	82.9	70.8	54.5	39.4		
96.00	24.00	153.3	118.2	95.6	79.8	68.1	52.1	37.7		
102.00	24.00	147.2	113.7	92.0	76.9	65.7	49.9	36.1		
108.00	24.00	141.5	109.4	88.7	74.2	62.9	47.9	34.6		
114.00	24.00	136.3	105.5	85.6	71.6	60.1	46.0	33.3		
120.00	24.00	131.4	101.9	82.7	69.3	57.6	44.3	32.0		

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

	Maximum design pressure capacity chart (psf) Units installed into masonry/concrete substrate									
				Mullio	n Span	(in)				
Heigl	nt (in)	48.00	60.00	72.00	84.00	96.00	108.00	120.00		
				Tributa	ry widt	h (in)				
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00		
60.00	30.00	175.0	147.2	117.3	96.8	82.0	66.4	47.8		
66.00	30.00	175.0	140.2	111.9	92.6	78.5	62.8	45.3		
72.00	30.00	175.0	133.8	107.1	88.7	75.3	59.6	43.0		
78.00	30.00	168.2	128.0	102.6	85.1	72.3	56.8	40.9		
84.00	30.00	160.9	122.7	98.5	81.8	69.6	54.1	39.1		
90.00	30.00	154.1	117.8	94.7	78.7	67.1	51.8	37.4		
96.00	30.00	147.9	113.2	91.1	75.9	64.7	49.6	35.8		
102.00	30.00	142.2	109.0	87.9	73.2	62.5	47.6	34.4		
108.00	30.00	136.9	105.1	84.8	70.8	60.3	45.7	33.1		
114.00	30.00	132.0	101.5	82.0	68.5	57.8	44.0	31.8		
120.00	30.00	127.4	98.1	79.4	66.3	55.5	42.4	30.7		

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

> CHART 12 36" TRANSOM

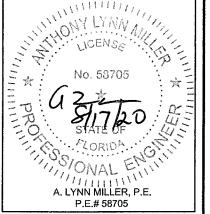
Maximum design pressure capacity chart (psf)									
Units installed into masonry/concrete substrate									
				Mullic	n Span	(in)			
Height (in)		48.00	60.00	72.00	84.00	96.00	108.00	120.00	
				Tributa	ry widt	h (in)			
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00	
60.00	36.00	175.0	140.9	111.5	91.7	77.5	62.4	44.9	
66.00	36.00	175.0	134.4	106.7	87.9	74.3	59.3	42.7	
72.00	36.00	171.2	128.6	102.2	84.4	71.5	56.5	40.7	
78.00	36.00	163.6	123.2	98.1	81.1	68.8	53.9	38.8	
84.00	36.00	156.6	118.2	94.4	78.1	66.3	51.5	37.1	
90.00	36.00	150.2	113.7	90.9	75.3	64.0	49.4	35.6	
96.00	36.00	144.3	109.4	87.6	72.7	61.8	47.4	34.2	
102.00	36.00	138.9	105.5	84.6	70.3	59.8	45.5	32.9	
108.00	36.00	133.8	133.8 101.9 81.8 68.0 58.0 43.8 31.7						
114.00	36.00	129.1	98.5	79.1	65.9	55.7	42.3	30.5	
120.00	36.00	124.7	95.3	76.7	63.9	53.6	40.8	29.5	

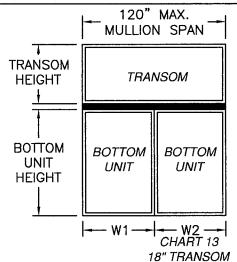
IMPACT RATING: LARGE AND SMALL MISSILE IMPACT MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

PRODUCT REVISED as complying with the Florida Building Code **NOA-No.** 20-08<u>26.01</u> Expiration Date 10/08/2025 Miami-Dade Product Control

NO CHANGES THIS SHEET.

ERIN KOSS Date TB-LMI-NOA Drawn By BROKEN MULLION (LM)





DESIGN PRESSURES SHOWN IN CHARTS ARE FOR POSITIVE AND NEGATIVE DESIGN PRESSURES.

DESIGN PRESSURE TABLE INSTRUCTIONS:

- 1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
- DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
- 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.
- MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.
- 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 15 30" TRANSOM

	Maximum design pressure capacity chart (psf)										
Units installed into wood or metal substrate											
				Mullic	n Span	(in)					
Heigl	ht (in)	48.00	60.00	72.00	84.00	96.00	108.00	120.00			
				Tributa	ry widt	h (in)					
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00			
60.00	30.00	175.0	175.0	166.5	121.7	92.8	66.4	47.8			
66.00	30.00	175.0	175.0	155.9	114.0	87.0	62.8	45.3			
72.00	30.00	175.0	175.0	146.5	107.2	81.8	59.6	43.0			
78.00	30.00	175.0	175.0	138.3	101.1	77.2	56.8	40.9			
84.00	30.00	175.0	175.0	130.9	95.8	73.1	54.1	39.1			
90.00	30.00	175.0	175.0	124.2	90.9	69.4	51.8	37.4			
96.00	30.00	175.0	171.3	118.2	86.6	66.1	49.6	35.8			
102.00	30.00	175.0	163.4	112.8	82.6	63.1	47.6	34.4			
108.00	30.00	175.0	156.2	107.8	79.0	60.3	45.7	33.1			
114.00	30.00	175.0	149.5	103.3	75.6	57.8	44.0	31.8			
120.00	30.00	175.0	143.4	99.1	72.6	55.5	42.4	30.7			

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)									
	Units installed into wood or metal substrate									
				Mullic	n Span	(in)				
Heigl	ht (in)	48.00	60.00	72.00	84.00	96.00	108.00	120.00		
	Tributa					h (in)				
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00		
60.00	36.00	175.0	175.0	158.0	115.1	87.6	62.4	44.9		
66.00	36.00	175.0	175.0	148.4	108.2	82.4	59.3	42.7		
72.00	36.00	175.0	175.0	139.9	102.0	77.7	56.5	40.7		
78.00	36.00	175.0	175.0	132.4	96.6	73.6	53.9	38.8		
84.00	36.00	175.0	175.0	125.6	91.6	69.9	51.5	37.1		
90.00	36.00	175.0	173.9	119.5	87.2	66.5	49.4	35.6		
96.00	36.00	175.0	165.7	113.9	83.2	63.4	47.4	34.2		
102.00	36.00	175.0	158.3	108.8	79.5	60.6	45.5	32.9		
108.00	36.00	175.0	151.5	104.2	76.1	58.1	43.8	31.7		
114.00	36.00	175.0	145.2	100.0	73.0	55.7	42.3	30.5		
120.00	36.00	175.0	139.5	96.0	70.2	53.6	40.8	29.5		

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

Maximum design pressure capacity chart (psf)

	waximum design pressure capacity chart (psi)									
	Units installed into wood or metal substrate									
				Mullio	n Span	(in)				
Heig	ht (in)	48.00	60.00	72.00	84.00	96.00	108.00	120.00		
				Tributa	ry widt	h (in)				
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00		
60.00	18.00	175.0	175.0	175.0	138.9	106.2	76.5	55.1		
66.00	18.00	175.0	175.0	175.0	128.9	98.6	71.8	51.7		
72.00	18.00	175.0	175.0	163.9	120.3	92.0	67.7	48.8		
78.00	18.00	175.0	175.0	153.7	112.8	86.3	64.0	46.2		
84.00	18.00	175.0	175.0	144.6	106.1	81.2	60.7	43.8		
90.00	18.00	175.0	175.0	136.5	100.2	76.7	57.7	41.7		
96.00	18.00	175.0	175.0	129.3	94.9	72.6	55.0	39.8		
102.00	18.00	175.0	175.0	122.8	90.2	69.0	52.6	38.0		
108.00	18.00	175.0	168.6	117.0	85.9	65.7	50.3	36.4		
114.00	18.00	175.0	160.9	111.6	82.0	62.7	48.3	34.9		
120.00	18.00	175.0	153.9	106.8	78.4	60.0	46.4	33.5		

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

> CHART 14 24" TRANSOM

	Maximum design pressure capacity chart (psf) Units installed into wood or metal substrate									
				Mullic	n Span	(in)				
Heigl	nt (in)	48.00	60.00	72.00	84.00	96.00	108.00	120.00		
				Tributa	ry widt	h (in)				
Window	Transom	24.00	30.00	36.00	42.00	48.00	54.00	60.00		
60.00	24.00	175.0	175.0	175.0	129.5	99.0	71.0	51.1		
66.00	24.00	175.0	175.0	164.9	120.8	92.3	66.9	48.2		
72.00	24.00	175.0	175.0	154.5	113.2	86.5	63.3	45.7		
78.00	24.00	175.0	175.0	145.3	106.5	81.4	60.1	43.4		
84.00	24.00	175.0	175.0	137.2	100.6	76.9	57.2	41.3		
90.00	24.00	175.0	175.0	129.9	95.2	72.8	54.5	39.4		
96.00	24.00	175.0	175.0	123.4	90.5	69.2	52.1	37.7		
102.00	24.00	175.0	169.6	117.4	86.1	65.9	49.9	36.1		
108.00	24.00	175.0	161.9	112.1	82.2	62.9	47.9	34.6		
114.00	24.00	175.0	154.8	107.2	78.6	60.1	46.0	33.3		
120.00	24.00	175.0	148.3	102.7	75.3	57.6	44.3	32.0		

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

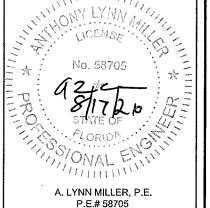
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0826.01 Expiration Date 10/08/2025 Miami-Dade Product Control

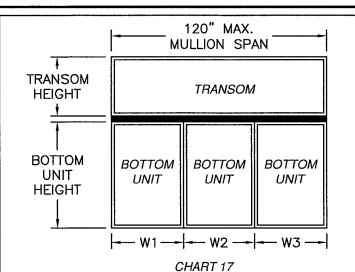
W1 + W2

TRIBUTARY WIDTH =

NO CHANGES THIS SHEET.

Date TB-LMI-NOA DWG No.





DESIGN PRESSURES SHOWN IN CHARTS ARE FOR POSITIVE AND NEGATIVE DESIGN PRESSURES.

DESIGN PRESSURE TABLE INSTRUCTIONS:

- DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
- DETERMINE MULLION SPAN AND TRIBUTARY WIDTH OF PRODUCT TO BE INSTALLED BASED ON FORMULA FOR TRIBUTARY WIDTH BELOW.
- 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.
- 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.
- WINDOW/DOOR AND TRANSOMS TO BE ANCHORED ON ALL FOUR SIDES.

CHART 19 30" TRANSOM

Maximum design pressure capacity chart (psf)

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

Maximum design pressure capacity chart (psf)

18" TRANSOM

Units i	Units installed into masonry/concrete substrate									
Hoid	ght (in)		Mullion Span (in)							
rieig	3111 (111 <i>)</i>	72.00	84.00	96.00	108.00	120.00				
Bottom	Transom		Tributary width (in)							
unit	1141130111	24.00	28.00	32.00	36.00	40.00				
60.00	18.00	123.2	103.9	89.5	75.6	54.8				
66.00	18.00	115.5	97.4	84.1	70.4	51.1				
72.00	18.00	108.6	91.8	79.3	65.9	47.9				
78.00	18.00	102.6	86.7	75.0	62.0	45.0				
84.00	18.00	97.2	82.2	71.1	58.5	42.5				
90.00	18.00	92.3	78.1	67.6	55.4	40.2				
96.00	18.00	87.9	74.4	64.5	52.6	38.2				
102.00	18.00	83.9	71.1	61.6	50.0	36.4				
108.00	18.00	80.2	68.0	58.9	47.7	34.7				
114.00	18.00	76.9	65.2	56.5	45.6	33.2				
120.00	18.00	73.8	62.6	54.3	43.7	31.8				

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

CHART 18

24" TRANSOM
Maximum design pressure capacity chart (psf)
Units installed into masonry/concrete substrate

Units i	Units installed into masonry/concrete substrate									
Haid	ght (in)		Mullion Span (in)							
пец	jiit (iii)	72.00	84.00	96.00	108.00	120.00				
Bottom	Transom		Tributary width (in)							
unit	1141130111	24.00	28.00	32.00	36.00	40.00				
60.00	24.00	115.0	96.7	83.2	70.2	50.9				
66.00	24.00	108.2	91.1	78.5	65.7	47.7				
72.00	24.00	102.2	86.1	74.3	61.8	44.9				
78.00	24.00	96.8	81.7	70.5	58.3	42.4				
84.00	24.00	92.0	77.7	67.0	55.2	40.1				
90.00	24.00	87.6	74.0	63.9	52.4	38.1				
96.00	24.00	83.6	70.7	61.1	49.9	36.3				
102.00	24.00	80.0	67.7	58.5	47.6	34.6				
108.00	24.00	76.7	64.9	56.1	45.5	33.1				
114.00	24.00	73.6	62.3	53.9	43.6	31.7				
120.00	24.00	70.8	59.9	51.9	41.9	30.4				

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

Units i	Units installed into masonry/concrete substrate									
Hair	·bt /in)	Mullion Span (in)								
កមាប្	ght (in)	72.00	84.00	96.00	108.00	120.00				
Bottom	Transom		Tribut	ary widt	h (in)					
unit	1101150111	24.00	28.00	32.00	36.00	40.00				
60.00	30.00	108.6	91.0	78.1	65.7	47.6				
66.00	30.00	102.6	86.1	73.9	61.7	44.8				
72.00	30.00	97.2	81.6	70.2	58.3	42.3				
78.00	30.00	92.3	77.6	66.8	55.2	40.0				
84.00	30.00	87.9	73.9	63.7	52.4	38.0				
90.00	30.00	83.9	70.6	60.9	49.9	36.2				
96.00	30.00	80.2	67.6	58.3	47.6	34.6				
102.00	30.00	76.9	64.8	56.0	45.5	33.0				
108.00	30.00	73.8	62.3	53.8	43.6	31.7				
114.00	30.00	70.9	59.9	51.8	41.8	30.4				
120.00	30.00	68.3	57.7	49.9	40.2	29.2				

IMPACT RATING: LARGE AND SMALL MISSILE IMPACT MISSILE LEVEL D, WIND ZONE 4 AND HVHZ CHART 20

36" TRANSOM Maximum design pressure capacity chart (psf)

Units installed into masonry/concrete substrate Mullion Span (in) Height (in) 72.00 84.00 96.00 108.00 120.00 Tributary width (in) **Bottom** Transom 24.00 28.00 32.00 40.00 unit 36.00 60.00 36.00 103.7 86.5 74.0 61.8 44.8 42.3 98.1 82.0 70.2 58.3 66.00 36.00 72.00 77.9 55.2 40.0 36.00 93.2 66.8 74.3 38.0 78.00 36.00 88.7 63.8 52.4 70.9 49.9 36.2 84.00 36.00 84.6 60.9 90.00 80.9 36.00 67.9 58.4 47.6 34.6 96.00 36.00 77.5 65.1 56.0 45.5 33.0 74.3 62.5 53.8 43.6 31.7 102.00 36.00 108.00 36.00 71.5 60.1 51.8 41.9 30.4

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

57.9

55.9

49.9

48.2

40.2

38.7

29.2

28.1

68.8

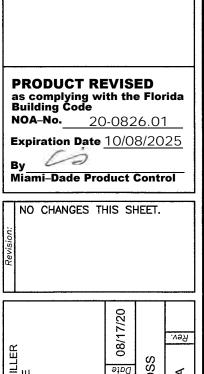
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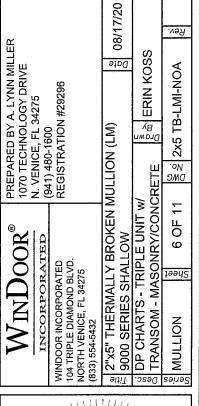
114.00

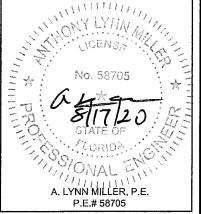
120.00

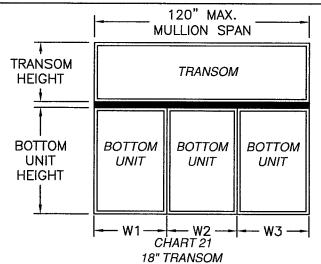
36.00

36.00









Maximum design pressure capacity chart (psf) Units installed into wood or metal substrate Height (in) Mullion Span (in) 72.00 | 84.00 | 96.00 | 108.00 | 120.00 **Bottom** Transom Tributary width (in) 24.00 unit 28.00 | 32.00 | 36.00 40.00 60.00 18.00 175.0 145.5 108.1 75.6 54.8 66.00 175.0 | 135.8 | 100.7 18.00 70.4 51.1 72.00 18.00 174.3 127.2 94.3 65.9 47.9 163.9 78.00 18.00 119.7 88.6 62.0 45.0 84.00 18.00 154.7 113.0 42.5 83.6 58.5 18.00 146.5 107.1 90.00 79.1 55.4 40.2 18.00 139.1 38.2 96.00 101.7 75.1 52.6 102.00 18.00 132.4 96.8 50.0 36.4 71.4 108.00 18.00 126.3 92.4 68.1 47.7 34.7 114.00 18.00 120.8 | 88.4 65.1 45.6 33.2 120.00 18.00 115.7 84.7 62.4 43.7 31.8

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

CHART 22 24" TRANSOM

	Maximum design pressure capacity chart (psf) Units installed into wood or metal substrate									
Heig	ht (in)		Mulli	ion Spa	n (in)					
		72.00	84.00	96.00	108.00	120.00				
Bottom	Transom		Tribu	ary wid	lth (in)					
unit		24.00	28.00	32.00	36.00	40.00				
60.00	24.00	175.0	135.3	100.4	70.2	50.9				
66.00	24.00	174.0	126.8	94.0	65.7	47.7				
72.00	24.00	163.7	119.3	88.4	61.8	44.9				
78.00	24.00	154.5	112.7	83.4	58.3	42.4				
84.00	24.00	146.3	106.8	78.9	55.2	40.1				
90.00	24.00	138.9	101.4	74.9	52.4	38.1				
96.00	24.00	132.2	96.6	71.3	49.9	36.3				
102.00	24.00	126.2	92.2	68.0	47.6	34.6				
108.00	24.00	120.7	88.2	65.0	45.5	33.1				
114.00	24.00	115.6	84.5	62.3	43.6	31.7				
120.00	24.00	110.9	81.1	59.8	41.9	30.4				

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

DESIGN PRESSURES SHOWN IN CHARTS ARE FOR POSITIVE AND NEGATIVE DESIGN PRESSURES.

DESIGN PRESSURE TABLE INSTRUCTIONS:

- 1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
- 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.

CHART 23 30" TRANSOM

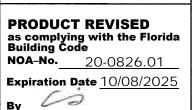
30 17 // W (SOM							
Maximum design pressure capacity chart (psf)							
Units installed into wood or metal substrate							
Height (in)		Mullion Span (in)					
		72.00	84.00	96.00	108.00	120.00	
Bottom	Transom	Tributary width (in)					
unit		24.00	28.00	32.00	36.00	40.00	
60.00	30.00	174.4	126.7	94.0	65.7	47.6	
66.00	30.00	164.0	119.3	88.4	61.7	44.8	
72.00	30.00	154.8	112.6	83.4	58.3	42.3	
78.00	30.00	146.5	106.7	79.0	55.2	40.0	
84.00	30.00	139.1	101.4	74.9	52.4	38.0	
90.00	30.00	132.5	96.5	71.3	49.9	36.2	
96.00	30.00	126.4	92.1	68.0	47.6	34.6	
102.00	30.00	120.8	88.1	65.0	45.5	33.0	
108.00	30.00	115.8	84.4	62.3	43.6	31.7	
114.00	30.00	111.1	81.1	59.8	41.8	30.4	
120.00	30.00	106.8	77.9	57.4	40.2	29.2	

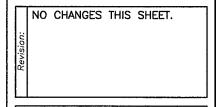
IMPACT RATING: LARGE AND SMALL MISSILE IMPACT MISSILE LEVEL D, WIND ZONE 4 AND HVHZ

CHART 24 36" TRANSOM

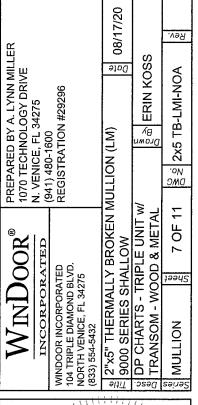
Maximum design pressure capacity chart (psf) Units installed into wood or metal substrate								
Height (in)		Mullion Span (in)						
,		72.00	84.00	96.00	108.00	120.00		
Bottom	Tributary width (in)							
unit		24.00	28.00	32.00	36.00	40.00		
60.00	36.00	165.1	119.6	88.7	61.8	44.8		
66.00	36.00	155.8	113.0	83.7	58.3	42.3		
72.00	36.00	147.4	107.0	79.2	55.2	40.0		
78.00	36.00	139.9	101.6	75.1	52.4	38.0		
84.00	36.00	133.2	96.8	71.5	49.9	36.2		
90.00	36.00	127.0	92.3	68.2	47.6	34.6		
96.00	36.00	121.4	88.3	65.2	45.5	33.0		
102.00	36.00	116.3	84.6	62.4	43.6	31.7		
108.00	36.00	111.6	81.2	59.9	41.9	30.4		
114.00	36.00	107.3	78.1	57.6	40.2	29.2		
120.00	36.00	103.2	75.2	55.4	38.7	28.1		

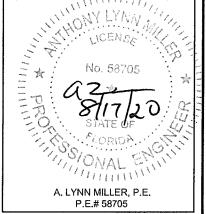
IMPACT RATING: LARGE AND SMALL MISSILE IMPACT MISSILE LEVEL D, WIND ZONE 4 AND HVHZ TRIBUTARY WIDTH $=\frac{W1 + W2 + W3}{3}$

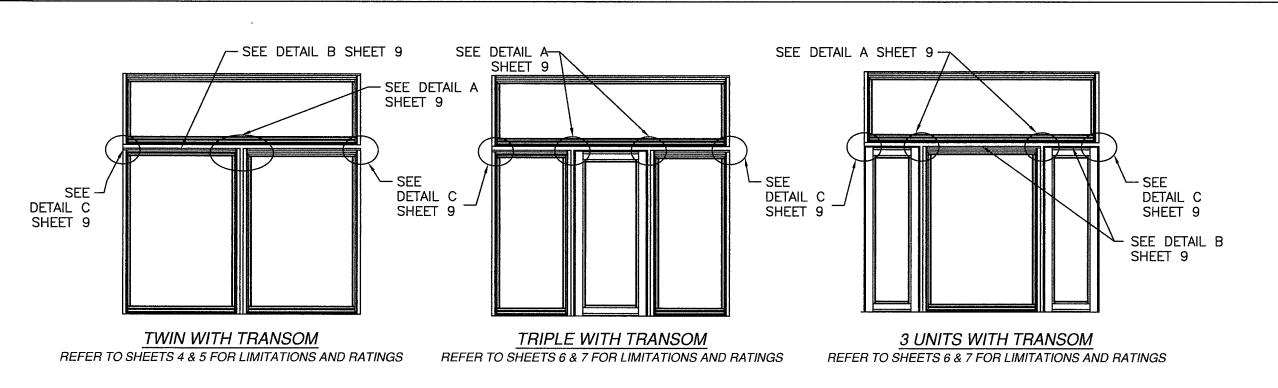


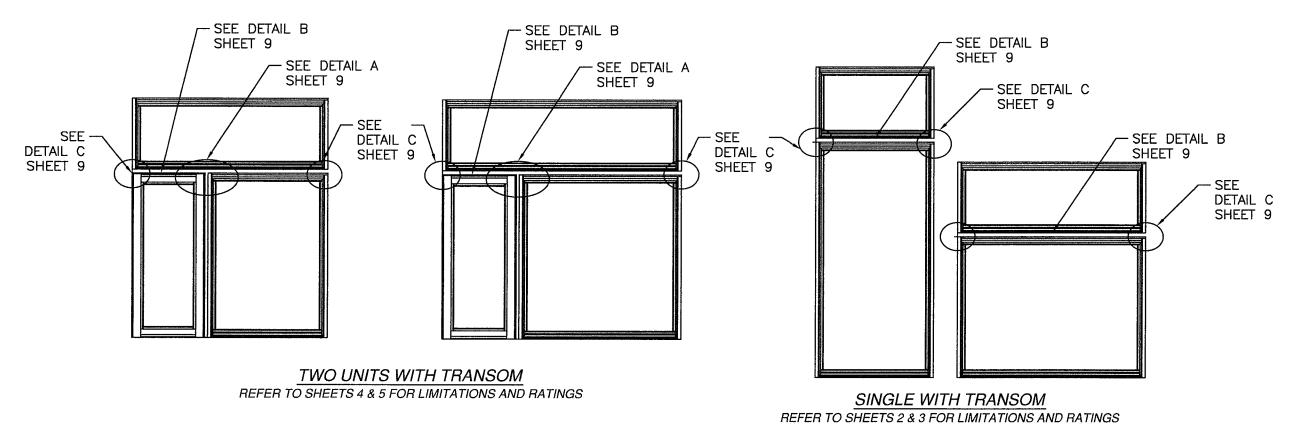


Miami-Dade Product Control



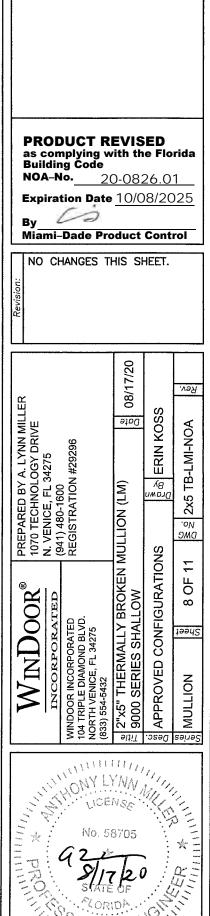


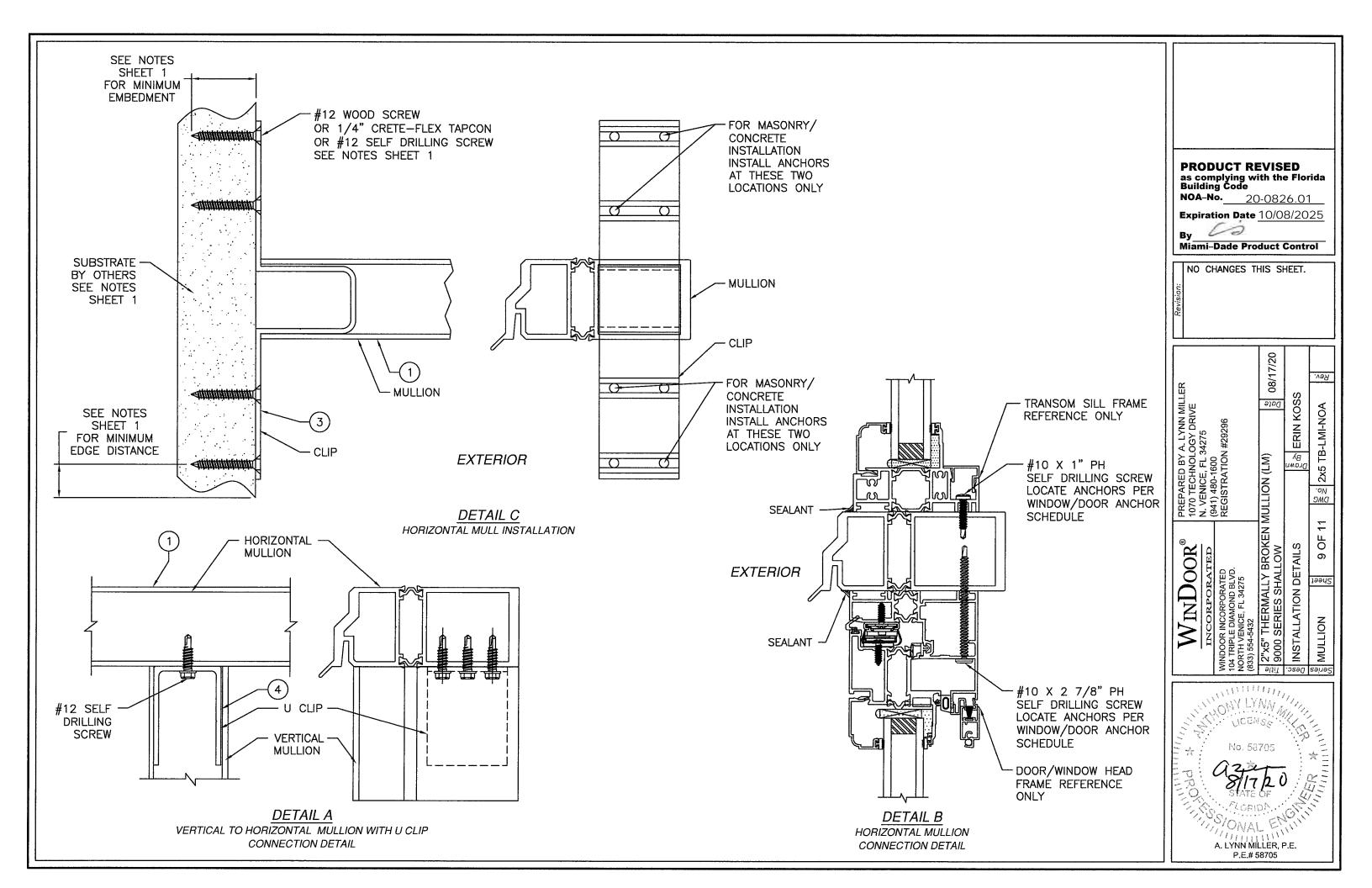


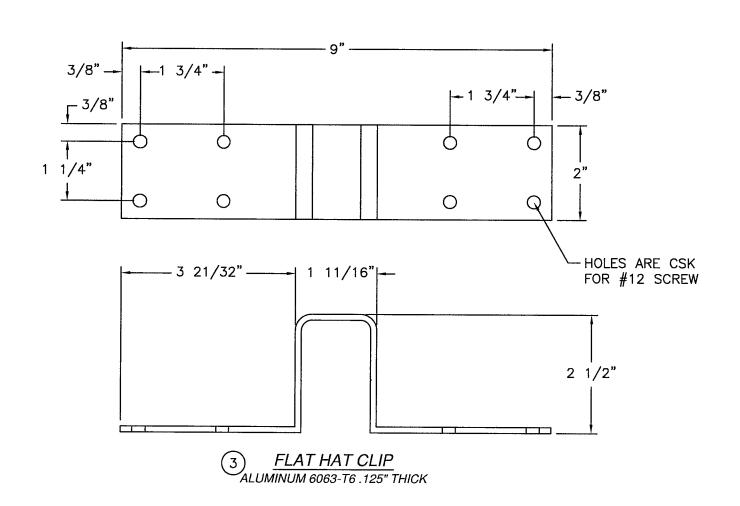


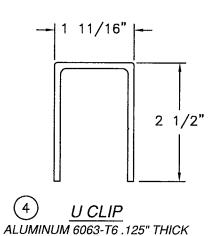
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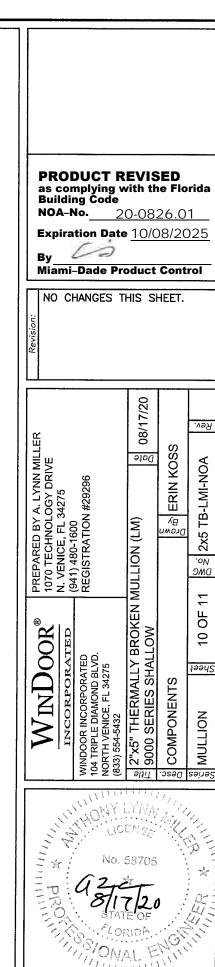
1. MULLED UNITS MAY BE OPERABLE OR FIXED.





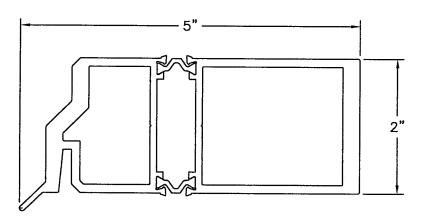


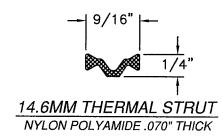




A. LYNN MILLER, P.E. P.E.# 58705

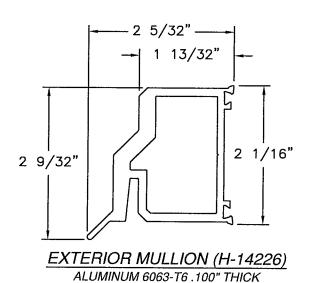
BILL OF MATERIALS						
ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL		
1	902A05-WDI	MULLION ASSEMBLY	KEYMARK	ALUMINUM 6063-T6		
3	11008611	FLAT HAT CLIP	KEYMARK	ALUMINUM 6063-T6		
4	FS-08481	INTERNAL CLIP	KEYMARK	ALUMINUM 6063-T6		

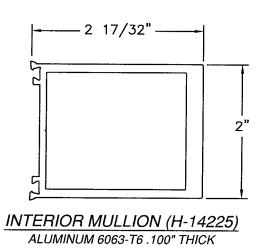




MULLION ASSEMBLY 902A05-WDI

ALUMINUM 6063-T6 .100" THICK MOMENT OF INERTIA: 6.375 IN^4 SECTION MODULUS: 2,449 IN^3 EFFECTIVE MOMENT OF INERTIA: 5.737 IN^4 EFFECTIVE SECTION MODULUS: 2.204 IN^3 (EFFECTIVE VALUES BASED ON PREVIOUS TESTING)





PRODUCT REVISED as complying with the Florida Building Code **NOA-No.** 20-0826.01 **Expiration Date** <u>10/08/2025</u> Miami-Dade Product Control NO CHANGES THIS SHEET.

08/17/20

Date

ERIN KOSS

2x5 TB-LMI-NOA

11 OF 11

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