

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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, FL 33175
T (786) 315-2590 F (786) 315-2599
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 Deep 180° Thermally Broken Clipped Tube Mullion-L.M.I.

APPROVAL DOCUMENT: Drawing No. **180° TB-LMI-NOA**, titled "Series 9000 Deep 180° Thermally Broken Mullion – L.M.I.", sheets 1 through 6 of 6, 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, 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.

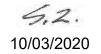
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 NOA No. 17-1219.33 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.





NOA No. 20-0826.06 Expiration Date: October 03, 2023 Approval Date: November 12, 2020

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No. 11-1011.02)
- 2. Drawing No. 1800 TB-LMI-NOA, titled "Series 9000 Deep 180° Thermally Broken Mullion L.M.I.", sheets 1 through 6 of 6, 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 a 180° thermally broken aluminum mullion, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3884-1**, dated 05/30/13, signed and sealed by Gerard J. Ferrara, P.E. (*Submitted under NOA No. 11-1011.02*)

C. CALCULATIONS

- 1. Anchor verification calculations, complying with FBC-2014, dated 06/05/15, prepared, signed and sealed by Luis R. Lomas, P.E.
- **2.** Calculations and structural analysis, dated 09/03/13, prepared, signed, and sealed by Luis R. Lomas, P.E.

(Submitted under NOA No. 11-1011.02)

D. OUALITY 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-StrutTM Aluminum Standard Reglet. (Submitted under NOA No. 11-1011.02)
- 2. Test report No.ATI-61261.01-106-18, prepared by Architectural Testing, Inc., dated 12/14/05, with revision date 01/04/06, issued to Technoform, for their <u>I-Strut Insulating Strip</u> comprised of <u>Polyamide with 25% glass fibers</u>, 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 NOA No. 11-1011.02)

00

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0826.06
Expiration Date: October 03 2023
Approval Date: November 12, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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 <u>I-Strut Insulating Strip</u> comprised of <u>Polyamide with 25% glass fibers</u>, 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 NOA No. 11-1011.02)
- 4. Test report No. ETC-08-1043-20974.0, prepared by ETC Laboratories, dated 07/01/08, issued to Technoform, for their <u>I-Strut Insulating Strip</u> comprised of <u>Polyamide with 25% glass fibers</u>, per ASTM D1929-96 "Standard Test Method for Ignition Properties of Plastics", signed and sealed by Joseph Doldan, P.E (Submitted under NOA No. 11-1011.02)

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.

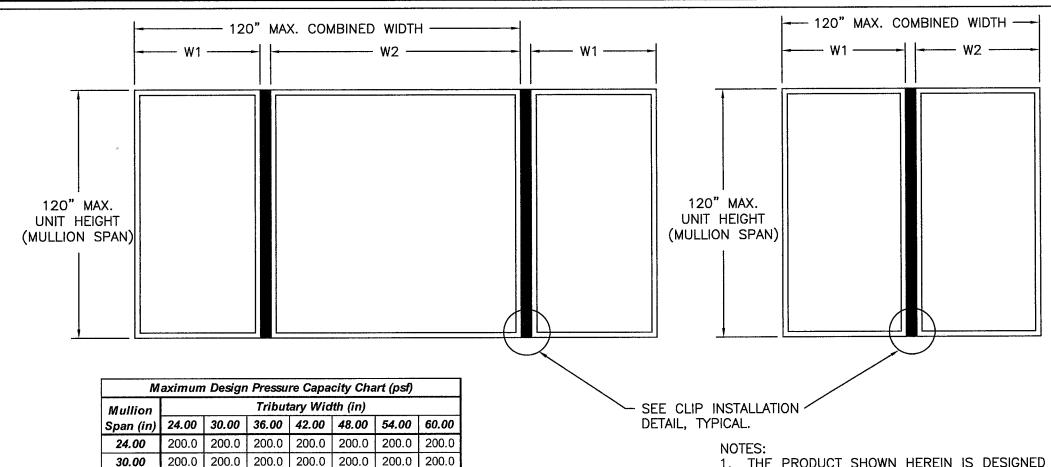
G. OTHERS

1. Notice of Acceptance No. 17-1219.33, issued to WinDoor, Inc. for their Series "9000 Deep 180° Thermally Broken Clipped Tube Mullion– L.M.I" approved on 02/15/18 and expiring on 10/03/2023.

00

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0826.06
Expiration Date: October 03, 2023

Approval Date: November 12, 2020



- 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. 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.
- . MULLION VERTICAL INSTALLATION IS SHOWN, MULLION MAY BE USED IN HORIZONTAL APPLICATIONS AS LONG AS DIMENSIONS INDICATED HEREIN ARE NOT EXCEEDED AND MULLION IS ANCHORED ACCORDING TO THIS DOCUMENT.

DESIGN PRESSURE TABLE INSTRUCTIONS:

200.0

200.0

200.0

200.0

200.0

200.0

200.0

200.0

194.0

172.7

154.7

139.2

36.00

42.00

48.00

54.00

60.00

66.00

72.00

78.00

84.00

90.00

96.00

102.00

108.00

114.00

120.00

200.0

200.0

200.0

200.0

200.0

200.0

200.0

177.8

156.9

139.5

124.8

112.4

200.0 200.0

200.0 200.0

200.0 200.0

200.0

200.0

200.0

200.0

200.0

200.0

200.0

200.0

199.4

172.2

150.4

132.4

117.6

105.1

94.6

200.0

200.0

200.0

200.0

200.0

200.0

200.0

200.0

175.0

150.7

131.2

115.3

102.2

91.2

82.0

200.0

200.0

200.0

200.0

200.0

200.0

200.0

186.3

157.5

135.1

117.2

102.8

90.9

81.0

72.7

- 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.

200.0 200.0

200.0 200.0

200.0 200.0

200.0 200.0

200.0 200.0

200.0

198.9

162.2

135.3

114.8

98.9

86.1

75.7

67.2

60.0

200.0

200.0

172.2

144.7

123.5

106.8

93.3

82.3

73.2

65.6

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

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

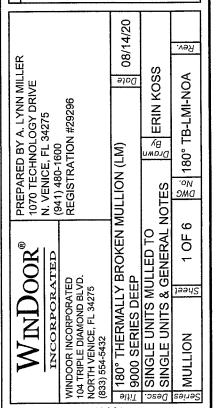
TABLE OF CONTENTS	
SHEET NO	DESCRIPTION
1	ELEVATION, NOTES AND DP CHART
2	BOM AND COMPONENTS
3-6	INSTALLATION DETAILS

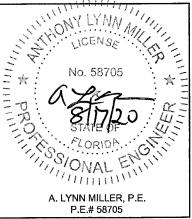
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.06

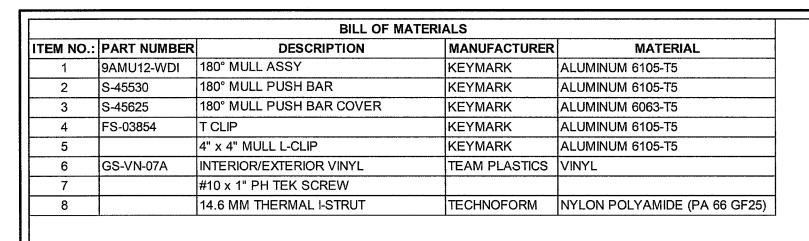
Expiration Date 10/03/2023

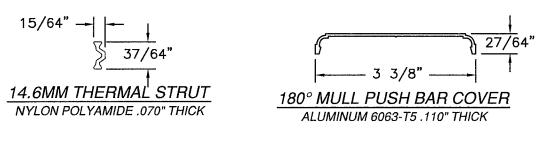
By Miami-Dade Product Control

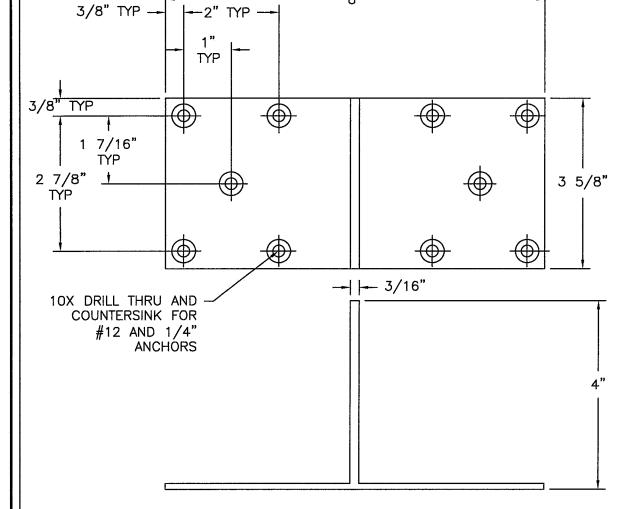
UPDATED FOR 2020 FBC. UPDATED MANUFACTURING ADDRESS.



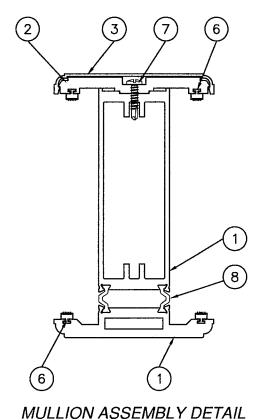




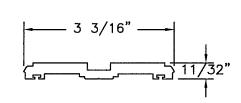




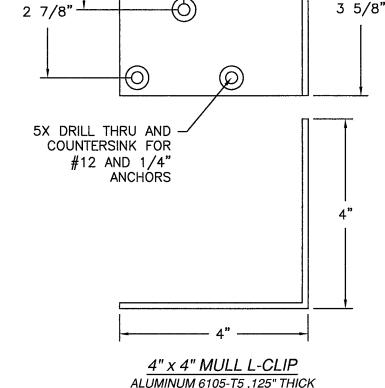
<u>T CLIP</u> ALUMINUM 6105-T5 .125" THICK



TOTAL MI = 10.006 EFFECTIVE MI = 9.624 (EFFECTIVE MI PER TIR-A8 SOFTWARE)



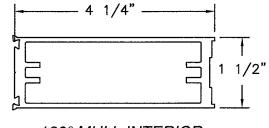
180° MULL PUSH BAR ALUMINUM 6105-T5 .234" THICK



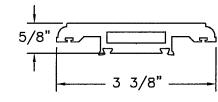
 \bigcirc

3/8"

1 7/16'



180° MULL INTERIOR ALUMINUM 6105-T5 .075" THICK

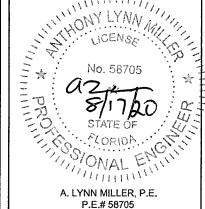


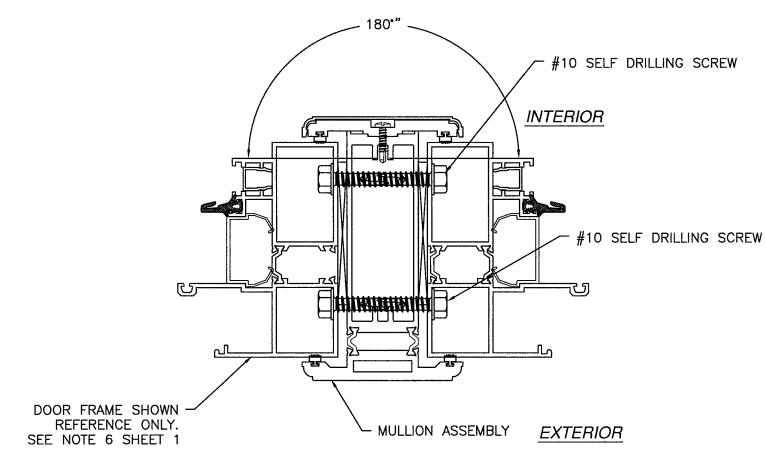
180° MULL EXTERIOR ALUMINUM 6105-T5 .180" THICK PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.06
Expiration Date 10/03/2023

Miami-Dade Product Control

NO CHANGES THIS SHEET.

| MINDOOR INCORPORATED | 1070 TECHNOLOGY DRIVE | 1070





DOOR/WINDOW TO MULLION INSTALLATION DETAIL

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

REFERENCE ONLY

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. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEETS 4 AND 5.
- 2. FOR ANCHORING INTO CONCRETE USE 1/4" ITW TAPCON WITH ADVANCE THREADFORM TECHNOLOGY 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 SHEETS 4 AND 6.
- 3. FOR ANCHORING INTO 16GA. MINIMUM METAL FRAMING USE #10" SELF DRILLING SCREW WITH SUFFICIENT LENGTH TO ACHIEVE 3—THREADS MINIMUM BEYOND METAL FRAMING. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS SHEETS 5 AND 6.
- 4. FOR ATTACHING WINDOW UNITS TO MULLION USE #10 SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE THREADS PAST THE MULLION WALL. LOCATE SCREWS 6" FROM EACH MULLION END AND 24" MAX. O.C. THEREAFTER. STAGGER SCREWS AT EACH WINDOW.
- 5. ANCHORING OF WINDOW/DOOR UNITS TO SUBSTRATE ARE NOT PART OF THIS APPROVAL. FOR WINDOW AND DOOR UNITS ANCHORING SCHEDULE TO SUBSTRATE REFER TO WINDOW/DOOR APPROVED INSTALLATION INSTRUCTIONS AND TO WINDOW/DOOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 6. ALL FASTENERS TO BE CORROSION RESISTANT.
- 7. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - A. WOOD MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE 2000 PSI MINIMUM
 - C. METAL FRAMING 16GA. (.063") MINIMUM AND FY= 33KSI/FU= 52KSI
- 8. TO ATTACH MULLION TO CLIP USE (3) #10 x 3/4" TEK SCREWS PER CLIP. SCREWS MUST BE FIELD INSTALLED. HOLES FOR TEK SCREWS ARE NOT PRE-DRILLED BY MANUFACTURER.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0826.06

Expiration Date 10/03/2023

By Miami-Dade Product Control

NO CHANGES THIS SHEET.

