

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 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. 7500 Amsterdam Drive Orlando, FL 32832

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "450" Clipped Mullion - L.M.I..

APPROVAL DOCUMENT: Drawing No. MD-450MULL, titled "450 Clipped Mullion", sheets 1 through 9 of 9, dated 06/03/2020, 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, 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#18-0926.14 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Sifang Zhao, P.E.

06/25/2021

4.2.

NOA No. 20-0610.16 Expiration Date: October 05, 2026 Approval Date: October 28, 2020

Page 1



WinDoor, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

- 1. Manufacturer's die drawings and sections (See NOA#20-0610.09)
- 2. Drawing No. MD-450MULL, titled "450 Clipped Mullion", sheets 1 through 9 of 9, dated 06/03/2020, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
- B. TESTS (See NOA #20-0610.09)

C. CALCULATIONS

Anchor verification calculations and structural analysis, complying with FBC-6th Edition (2017) and FBC-7th (2020) dated 06/05/2020, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

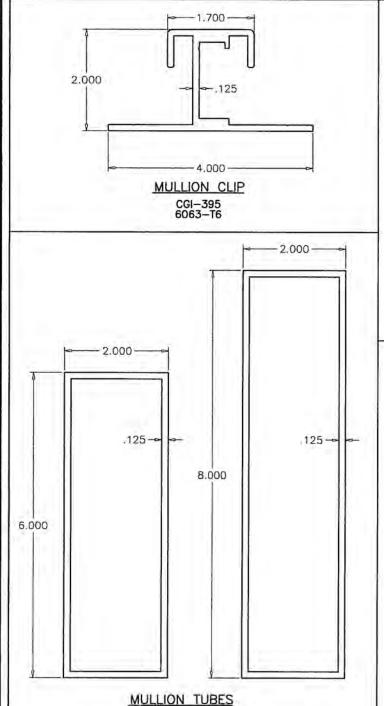
- 1. Statement letter of conformance, complying with FBC 6th Edition (2017) and with FBC 7th Edition (2020), and of no financial interest, dated 05/22/2020, signed and sealed by Anthony Lynn Miller, P.E.
- 2. Statement letter of successor engineer per 61G15-27.001 Florida Administrative Code.

D. OTHERS

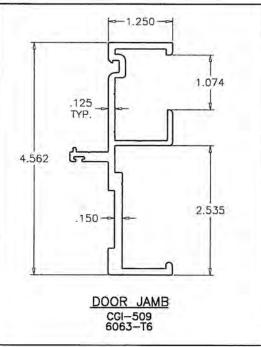
- 1. Private labeling agreement between WinDoor, Inc. and CGI Windows and Doors, Inc. document in conformance of RER guideline dated 09/12/2018. (Submitted under NOA#18-0926.14)
- 2. Notice of Acceptance No. **18-0926.14**, issued to WinDoor for their Series Clipped, Extruded Aluminum Tube Mullion with #373 Framing Member L.M.I., approved on 11/29/18 and expiring on 11/05/2021/21
- 3. NOA No. **20-0610.09** issued to CGI Windows & Doors for their Series "450" Clipped Mullion L.M.I. approved on 09/24/20 and expiring on 10/05/26.

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Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0610.16
Expiration Date: October 05, 2026
Approval Date: October 28, 2020



6063-T6



THESE MULLIONS ARE RATED FOR LARGE & SMALL MISSILE IMPACT

INSTRUCTIONS:

USE MULLION/ANCHOR CHART AS FOLLOWS.

DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.

STEP 2 USE CONNECTION TO MULLION AS PER THIS PRODUCT APPROVAL.

USING CHART SELECT ANCHORS WITH DESIGN STEP 3 RATING MORE THAN THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

CAPACITY OF SELECTED WINDOOR'S DOORS/SIDELITE/TRANSOM AND MULLION MUST EQUAL OR EXCEED REQUIRED LOADS.

SERIES '450' VERTICAL ALUMINUM TUBE MULLION

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA

LOADS TO THE BUILDING STRUCTURE.

EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR

ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC, CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DOOR FRAME MEMBER INCLUDED IN PROPERTIES

BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE CODE REQUIREMENTS I.E.: WIND LOAD, WATER INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED

THIS MULLION APPROVAL TO BE USED FOR MULLION AS SHOWN ON SHEET 5 AND MUST CONTAIN WINDOOR'S SWING DOORS, SIDELITES AND TRANSOMS AS DEPICTED.

PRODUCT REVISED as complying with the Florida Building Code 20-0610.16 NOA-No.

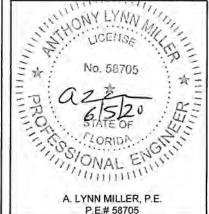
Expiration Date 10/05/2026

Miami-Dade Product Control

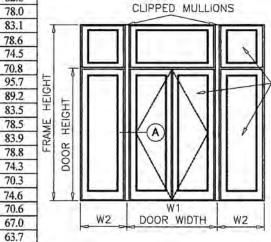
A) UPDATED TO FBC 2020. AK - 06/03/20

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 06/03/20 Rev. MD-450MULL Date AGK NOTES By No. 0 OF -

EXTRUSIONS, INSTRUCTIONS, CLIPPED MULLION 19945 NTS Scale 450MULL 450 Series Title Desc.



		DESIGN LOA NOMINAL DIMS.	D CAPACITY - PS	_		5/16" AN	ICHORG			DESIGN LOAD NOMINAL DIMS.	D CAPACITY - PS																			
WIDTH		FRAME HEIGHT	DOOR HEIGHT		CHORS		-	WIDTH		FRAME HEIGHT	DOOR HEIGHT	1/4" AN																		
(W1)	(W2)	INCHES	INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	(W1)	(W2)	INCHES	INCHES	EXT.(+)	INT.(-																	
	24			110.0	110.0	110,0	110.0		24			96.4	96.4																	
60	30			108.5	108.5	110.0	110.0	60	30 36			89.1	89.1																	
	36			101.5	101.5	110.0	110.0	7137	42			82.9	82.9 77.5																	
	42			95.3	95.3	106.3	106.3		24			77.5 84.9	84.9																	
	30			102.3	102.3 96.0	110.0	110.0	2 (3)	30			79.2	79.2																	
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	42			85.5	85.5	95.3	95.3		42			69.9	69.9																	
	24			91.1	91.1	101.6	101.6		24			75.9	75.9																	
	30			86.1	86.1	96.0	96.0		30			71.3	71.5																	
84	36			81.6	81.6	91.0	91.0	84	36			67.3	67.3																	
	42			77.5	77.5	86.5	86.5		42			63.7	63.7																	
	24			110.0	110.0	110.0	110.0		24			93.1	93.1																	
60	30			104.0	104.0	110.0	110.0	60	30			86.1	86.1																	
60	36			97.1	97.1	108.3	108.3	00	36			80.0	80.0																	
	42			91.1	91.1	101.6	101.6		42			74.7	74.7																	
	24			98.3		109.6		24			82.1	82.1																		
72	30	102	84	92.1	92.1	102.7	102.7	72	30	132	84	76.6	76.6																	
12	36		84	86.7	86.7	96.7	96.7		36			71.7	71.7																	
-	42			81.8	81.8	91.3	91.3		42			67.5	67.5																	
	24			87.6	87.6	97.7	97.7		24			73.4	73.4																	
84	30			82.6	82.5	92.2	92.2	84	30			69.0	69.0																	
04	36			78.2	78.2	87.3	87.3	N & S	36			65.0	65.0																	
	42			74.3	74.3	82.9	82.9	Cham 14	42			61.5	61.5																	
	24			107.6	107.6	110.0	110.0	60	24			86.7	86.7																	
60	30 36			99.8	99.8	110.0	110.0		30			80,9	80.9																	
00			111 5	93.1	93.1	103.9	103.9	1 77	36			75.7	75.7																	
	42	108		87.3	87.3	97.3	97.3	72 -	42			71.2	71.2																	
	24			94.5	94.5	105.5	105.5		24			76.0	76.0																	
72	30		84	88.5	88.5	98.7	98.7		30	138	84	71.4	71.4																	
100	36		11,85	83.2	83.2	92.8	92.8		36 42			67.4 63.8	67.4																	
	42			78.5	78.5	87.5	87.5		24			67.6	67.6																	
	24			84.3	84.3	94.1	94.1		30			63.9	63.9																	
84	30			79.5	79.5	88.7	88.7		36			60.7	60.7																	
	42			75.2 71.3	75.2 71.3	83.9 79.5	83.9 79.5	11376	36 42			57.8	57.8																	
	24				103.6	110.0	110.0		24			76.9	76.9																	
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60	36		10	89.5	89.5	99.8	99.8	60	36			66.5	66.5																	
	42			83.8	83.8	93.4	93.4		42			62.3	62.3																	
	24			91.1	91.1	101.6	101.6		24			67.6	67.6																	
	30	1000		85.2	85.2	95.0	95.0	72	30	144	0.0	63.2	63.2																	
72	36	114	84	80.0	80.0	89.2	89.2	12	36	144	84	59.4	59.4																	
	42			75.4	75.4	84.1	84.1		42			56.0	56.0																	
	24			81.3	81.3	90.7	90.7		24			60.3	60.3																	
84	30			76.6	76.6	85.4	85.4	84	30			56.8	56.8																	
84	36			72.3	72.3	60.7	80.7	04	36			53.7	53.7																	
	42			68.6	68.6	76.5	76.5		42			50.9	50.9																	
	24			99.8	99.8	110.0	110.0																							
60	30		10	92.4	92.4	103.1	103.1																							
00	36	6 2 4 0 6		86.1	86.1	96.0	96.0																							
	42			80,5	80.5	89.8	89.8																							
_	24		11	87.9	87.9	98.0	98.0																							
72	30		84	82.1	62.1	91.6	91.6																							
12	36		94	77.0	77.0	85.9	85.9																							
	42			72.6	72.6	80.9	80.9																							
	24			78.5	78.5	87.5	87.5																							
84	30			73.8	73.8	82.4	82.4																							
10	36			69.7	69.7	77.8	77.8																							
4	12			66.0	66.0	73.7	73.7																							



1/4" ANCHORS 5/16" ANCHORS

INT.(-) EXT.(+)

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86.5

93.4

87.7

82.6

78.0

83.1

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74.5

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INT.(-)

106.5

99.1

92.5

86.5

93.4

87.7

82.6

REFER TO SEPARATE 'WINDOOR' N.C. AND TRANSOMS

FOR SERIES 450 DOORS, SIDELITES

as complying with the Florida Building Code 20-0610.16 NOA-No.

PRODUCT REVISED

Expiration Date 10/05/2026

Miami-Dade Product Control

A) NO CHANGES THIS SHEET. AK - 06/03/20

4 PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 06/03/20 Rev. MD-450MULL AGK

REGISTRATION #29296 Date

DWG 0 R N Sheet

ונסאנ By

MULLION LOAD CHARTS INCORPORATED
104 TRIPLE DIAMOND BLVD
NORTH VENICE, FL 34275
(407) 481-8400 450 CLIPPED MULLION NTS 450MULL Scale Series Title Desc.

No. 58705 STATE OF STA

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

LIMIT EXTERIOR LOADS TO ± 100 PSF FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. SEE CHART ABOVE FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.

TOTAL PROPERTIES $1x = 14.183 \text{ IN}^4$ $Sx = 4.728 \text{ IN}^3$

W1 W2 NCHES NCHES NCHES EXI.(+) RII.(-) EXI.(+) RII.(-) RIII.(-) RII.(-) RII.(-)			DESIGN LOAD	CAPACITY - PSF	. (2 X 6 X	1/8")					DESIGN LOAD	D CAPACITY - PS	F. (2 X 6 X	1/8")		
CW1 CW2 INCHES INCHES			NOMINAL DIMS.		1/4" AN	NCHORS	5/16" A	5/16" ANCHORS			NOMINAL DIMS.	1/4" AN	CHORS	5/16" AT	NCHORS	
103.1 103.1 110.0 110.0 100.0 30 36 42 42 42 42 42 42 42 4	0. 40. 10.0		HE POLICE AND COMPANY WAS AND AND AND	THE PROPERTY OF STREET	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)				DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
60 30 36 42 89,8 89,8 80,8 80,0 80,4 90,4 90,4 90,4 90,4 90,4 90,4 90,4 9					103.1	103.1	110.0	110.0					87.0	87.0	88.9	88.9
89,8 89,8 84,3 94,1 94,1 42 42 42 42 42 42 42 4	60	30			96.0	96.0	107.1		(0)	30			80.5	80.5	82.6	82.6
72 30 108 96 84.9 84.9 94.7 94.9 </td <td>00</td> <td></td> <td></td> <td></td> <td>89.8</td> <td>89.8</td> <td>100.1</td> <td>100.1</td> <td>00</td> <td>36</td> <td></td> <td></td> <td>75.0</td> <td>75.0</td> <td>77.2</td> <td>77.2</td>	00				89.8	89.8	100.1	100.1	00	36			75.0	75.0	77.2	77.2
72 30 36 108 96 84.9 84.9 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80					84.3		94.1	94.1					70.1	70.1	72.5	72.5
108					90.4		100.9	100.9		24			76.6	76.6	78.0	78,0
St. St.	72		108	96	84.9		94.7	94.7	72	30	138	06	71.5	71.5	73.2	73.2
84 30 36 80.5 80.5 89.8 89.8 76.1 76.1 76.1 34.9 84.9 84.9 72.1 72.1 72.1 80.5 80.5 80.5 60 36 42 99.4 99.4 110.0 110.0 92.4 92.4 103.1 103.1 24 80.5 86.6 86.6 76.5 76.5 42 99.4 99.4 110.0 110.0 110.0 92.4 92.4 103.1 103.1 60 30 36 31.0 81.0 90.4 90.4 90.4 90.4 87.3 87.3 87.3 87.3 97.3 97.3 81.8 81.8 81.8 91.3 91.3 77.0 77.0 77.0 78.9 85.9 85.9 30 42 77.8 77.8 86.7 86.7 42 77.8 77.8 86.7 86.7 86.7 42 77.4 73.4 73.4 81.9 81.9 42 96.0 96.0 100.7 107.1 107.1 80 36 42 84 36 <td< td=""><td>12</td><td></td><td rowspan="2"></td><td>20</td><td></td><td></td><td></td><td></td><td>12</td><td></td><td>90</td><td>67.1</td><td>67.1</td><td>68.9</td><td>68.9</td></td<>	12			20					12			90	67.1	67.1	68.9	68.9
84 30 36 76.1 76.1 84.9 84.9 84.9 30 36 36 36 80.5 80.5 80.5 80.5 80.5 80.5 80.5 80.5 80.5 80.5 80.5 80.5 80.5 80.5 80.5 80.5 80.7 80.9 80.9 80.9 80.9 80.9 80.9 80.9 80.9 80.9 80.9 80.9 80.9 80.3 80.9 80.3 80.3 80.9 80.3 80.3 80.9 80.3 80.9 80.3 80.3 80.9 80.3 80.3 80.9 80.3 80.3 80.9 80.9 80.3 80.3 80.9								84.4					63.2	63.2	65.1	65.1
84 36 72.1 72.1 80.5 80.5 42 36 42						80.5	89.8	89.8					68.4	68.4	69.5	69.5
36 42 68.6 68.6 76.5 76.5 36 42 24 99.4 99.4 110.0 110.0 110.0 110.0 103.1 30 36 42 92.4 92.4 103.1 103.1 30 36 42 87.3 87.3 97.3 96.3 36 42 72 30 114 96 81.8 81.8 91.3 91.3 91.3 72 36 42 77.0 77.0 85.9 85.9 72 30 84 30 77.0 77.0 85.9 85.9 72 36 144 96 84 30 69.5 69.5 77.5 77.8 86.7 86.7 86.7 84 30 69.5 69.5 77.5 77.5 77.5 77.5 77.5 42 96.0 96.0 107.1 107.1 84.1 84 36 42 96.0 96.0 107.1 107.1 107.1 89.1 89.1 89.1 99.4 99.4 84.3 38.2 92.8 78.0 78.0 87.0 72 30 79.0 </td <td>84</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9.1</td> <td></td> <td></td> <td></td> <td>64.3</td> <td>64.3</td> <td>65.6</td> <td>65.6</td>	84								9.1				64.3	64.3	65.6	65.6
60 30 36 42 99.4 92.4 92.4 92.4 92.4 103.1 103.1 86.4 86.4 86.4 87.3 87.3 97.3 97.3 97.3 97.3 97.3 97.3 97.3 9							80.5	80.5	04				60.7	60.7	62,2	62.2
60 30 36 42 36 42 86.4 86.4 86.4 86.4 96.3 90.4 90.4 90.4 90.4 90.4 90.4 90.4 90.4							100000			- 1			57.5	57.5	59.0	59.0
60 36 42 86.4 86.4 96.3 96.3 81.0 81.0 90.4 90.4 87.3 87.3 97.3 97.3 96 81.8 81.8 91.3 91.3 70 77.0 77.0 85.9 85.9 72.8 72.8 72.8 81.2 81.2 84 30 84 36 86.7 86.7 42 73.4 73.4 81.9 81.9 69.5 69.5 77.5 77.5 77.5 60 30 30 89.1 89.1 99.4 99.4 83.2 83.2 92.8 92.8 78.0 78.0 78.0 87.0 87.0 84.3 84.3 84.3 94.1 94.1 72 30 120 96 79.0 79.0 88.1 88.1 72 30 120 96 74.3 74.3 74.3 82.9 82.9 70.1 70.1 70.1 70.1 70.2 78.2 78.2 72 30 72.2 73.2 83.0 83.0 83.0 84 30									60	20.			80.4	80.4	80.4	80.4
36 42 24 86.4 86.4 96.3 96.3 81.0 81.0 90.4 90.4 87.3 87.3 97.3 97.3 81.8 81.8 91.3 91.3 72.0 36 77.0 77.0 85.9 85.9 72.8 72.8 72.8 81.2 81.2 84 30 36 42 42 73.4 73.4 73.4 81.9 81.9 69.5 69.5 69.5 77.5 77.5 77.5 60.0 96.0 96.0 107.1 107.1 89.1 89.1 89.1 99.4 83.2 83.2 92.8 92.8 78.0 78.0 87.0 87.0 84.3 84.3 94.1 94.1 72 30 120 96 79.0 79.0 88.1 88.1 72 30 120 96 79.0 79.0 88.1 88.1 72 30 120 96 79.0 79.0 88.1 88.1 72 30 120 96 79.0 88.1 88.1 75.2 75.2 </td <td>60</td> <td>(1)</td> <td>1</td> <td></td> <td></td> <td>92.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>74.7</td> <td>74.7</td> <td>74.7</td> <td>74.7</td>	60	(1)	1			92.4							74.7	74.7	74.7	74.7
24 30 314 96 87.3 87.3 97.3 97.3 97.3 30 30 30 36 30 36 77.0 77.0 85.9 85.9 72 36 36 42			1		86.4	86.4			00				69.4	69.4	69.4	69.4
72 30 36 42 114 96 81.8 77.0 77.0 77.0 85.9 85.9 72.8 72.8 72.8 81.2 81.2 77.8 77.8 86.7 86.7 73.4 73.4 73.4 81.9 81.9 69.5 66.0 66.0 66.0 66.0 66.0 66.0 73.7 73.7 73.7 73.7 73.7 73.7 96.0 96.0 96.0 96.0 107.1 107.1 89.1 89.1 89.1 89.1 99.4 99.4 83.2 83.2 83.2 92.8 78.0 78.0 87.0 87.0 87.0 88.1 88.1 88.1 88.1 88.1 78.0 78.0 87.0 88.1 88.1 88.1 88.1 79.0 79.0 79.0 79.0 88.1 88.1 88.1 79.0 79.0 79.0 79.0 88.1 88.1 88.1 79.0 79.0 79.0 79.0 79.0 88.1 88.1 88.1 79.0 79.0 79.0 79.0 79.0 88.1 88.1 88.1 79.0 79.0 79.0 79.0 79.0 88.1 88.1 88.1 79.0 79.0 79.0 79.0 79.0 79.0 79.0 79.0			114		12.7.7.								64.8	64.8	64.8	64.8
72 36 42 77.0 77.0 85.9 85.9 72.8 72.8 72.8 81.2 81.2 84 30 36 73.4 73.4 81.9 81.9 60 36 42 24 96.0 96.0 107.1 107.1 89.1 89.1 89.4 99.4 83.2 83.2 83.2 92.8 78.0 78.0 78.0 87.0 84.3 84.3 84.1 94.1 72 30 36 42 79.0 79.0 88.1 88.1 74.3 74.3 82.9 82.9 70.1 70.1 70.1 78.2 78.2 78.0 78.0 88.0 88.1 84.3 84.3 84.1 94.1 96 74.3 74.3 82.9 82.9 70.1 70.1 70.1 78.2 78.2 75.3 75.3 75.3 83.0 83.0 80.0 83.2 82.9 82.9 80.0 83.2 83.2 82.9 80.0 84.3 84.3 84.1 84.3 <td< td=""><td></td><td></td><td></td><td>87.3</td><td></td><td>97.3</td><td>97.3</td><td rowspan="4">72</td><td></td><td></td><td rowspan="3">96</td><td>70.5</td><td>70.5</td><td>70.5</td><td>70.5</td></td<>					87.3		97.3	97.3	72			96	70.5	70.5	70.5	70.5
36 42 42 72.8 72.8 81.2 81.2 42 77.8 77.8 86.7 86.7 86.7 24 36 36 69.5 69.5 77.5 77.5 77.5 36 42 96.0 96.0 107.1 107.1 36 36 89.1 89.1 99.4 99.4 89.1 89.1 99.4 99.4 83.2 83.2 92.8 92.8 78.0 78.0 87.0 87.0 84.3 84.3 94.1 94.1 72 30 74.3 74.3 74.3 82.9 42 74.3 74.3 82.9 82.9 42 76.0 75.2 75.2 75.2 78.2 75.2 75.2 75.2 75.2 78.2 75.2 75.2 75.2 75.2 78.2	72			96							144		66.1	66.1	66.1	66.1
84 30 36 73.4 73.4 81.9 81.9 60 36 24 96.0 96.0 107.1 107.1 89.1 89.1 89.1 99.4 83.2 83.2 92.8 92.8 72 36 78.0 78.0 87.0 72 36 79.0 79.0 88.1 88.1 72 36 74.3 74.3 82.9 82.9 72 36 74.3 74.3 78.0 82.9 72 36 74.3 74.3 82.9 82.9 70.1 70.1 78.2 78.2 72 78.2 78.2 78.2 72 78.2 78.2 78.2 78.0 78.0 82.9 82.9 70.1 70.1 78.2 78.2 78.2 78.2 78.2 78.2 78.2 78.2 78.2 78.2 78.0 88.1 88.1 78.2 78.0 78.2 78.2 78.2 78.0 78.2 78.2 78.2 78.0 78.2 78.2 78.2 78.0 78.2<				20							137		62.2	62.2	62.2	62.2
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84 36 69.5 69.5 77.5 77.5 84 36 42 96.0 66.0 66.0 73.7 73.7 42 30 89.1 89.1 99.4 99.4 89.1 89.1 99.4 99.4 83.2 83.2 92.8 92.8 78.0 78.0 87.0 87.0 84.3 84.3 94.1 94.1 72 30 79.0 79.0 88.1 88.1 74.3 74.3 82.9 82.9 42 70.1 70.1 70.1 78.2 78.2 24 72 75.2 93.0 93.0									-			11 3	62.7	62.7	62.7	62.7
36 69.5 69.5 77.5 77.5 42 66.0 66.0 73.7 73.7 24 96.0 96.0 107.1 107.1 89.1 89.1 89.1 99.4 99.4 83.2 83.2 92.8 92.8 78.0 78.0 87.0 87.0 84.3 84.3 94.1 94.1 72 30 120 96 79.0 79.0 88.1 88.1 74.3 74.3 74.3 82.9 82.9 70.1 70.1 78.2 78.2 72 75.2 75.2 78.2 78.2 72 75.2 75.2 78.2 78.2	84			1 5					84				59.3	59.3	59.3	59.3
60									84				56.2	56.2	56.2	56.2
60 30 36 89.1 89.1 99.4 99.4 83.2 83.2 92.8 92.8 78.0 78.0 87.0 87.0 84.3 84.3 94.1 94.1 72 30 79.0 79.0 88.1 88.1 79.0 79.0 79.0 88.1 88.1 70.1 70.1 70.1 78.2 78.2 70.1 70.1 70.1 78.2 78.2						20124				42			53.3	53,3	53.3	53.3
60 36 42 83.2 83.2 92.8 92.8 78.0 78.0 87.0 87.0 84.3 84.3 94.1 94.1 72 30 79.0 79.0 88.1 88.1 74.3 74.3 82.9 82.9 70.1 70.1 78.2 78.2 75.2 75.2 75.2 83.0 83.0								107.1								
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72 30 120 96 79.0 79.0 88.1 88.1 74.3 74.3 82.9 82.9 70.1 70.1 78.2 78.2 78.2 78.2 78.2 78.2 78.2 78.2							-						CH	PPED MI	ILLIONS	
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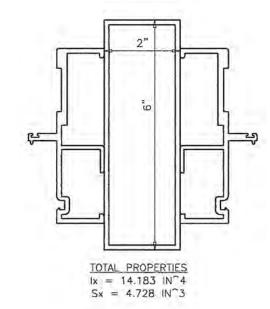
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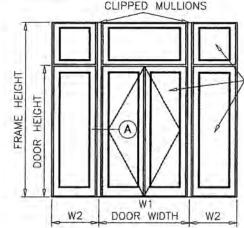
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REFER TO SEPARATE 'WINDOOR' N.O.A. FOR SERIES 450 DOORS, SIDELITES AND TRANSOMS

PRODUCT REVISED as complying with the Florida Building Code 20-0610.16 NOA-No. Expiration Date 10/05/2026

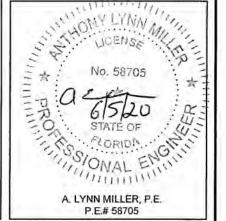
Miami-Dade Product Control

A) NO CHANGES THIS SHEET. AK - 06/03/20

06/03/20

Rev.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 MD-450MULL Date VB By DWG 6 PO MULLION LOAD CHARTS 104 TRIPLE DIAMOND BLVD NORTH VENICE, FL 34275 (407) 481-8400 450 CLIPPED MULLION 3 19945 NTS 450MULL



LIMIT EXTERIOR LOADS TO +100 PSF FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. SEE CHART ABOVE FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.

	10 4		D CAPACITY - PSF	. (2 X 6 X 1	(/8")			DESIGN LOAD CAPACITY - PSF. (2 X 6 X 1/8")							
		NOMINAL DIMS.		1/4" AN	CHORS	5/16" A	NCHORS	1		NOMINAL DIMS.		1/4" AN	CHORS	5/16" A	ICHOI
WIDTH (W1)	(W2)	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.
	24	A # 1 # 1 # 1		92.4	92.4	103.1	103.1	7 5 7	24		30,700	83.8	83.8	93.4	93.
60	30) + (i)		86.1	86.1	96.0	96.0	60	30			78.0	78.0	87.0	87.
00	36			80.5	80.5	89.8	89.8	00	36			73.0	73.0	81.4	81.
	42			75.6	75.6	84.4	84.4		42			68.6	68.6	76.5	76.
	24			81.0	81.0	90.4	90.4		24			73.4	73.4	81.8	81.
72	30	120	108	76.1	76.1	84.9	84.9	72	30	132	120	69.0	69.0	76.9	76.
14	36		100	71,7	71.7	80.0	80.0	12	36		120	65.0	65.0	72.5	72.
	42			67.8	67.8	75.7	75.7	1	42		4	61.5	61.5	68.6	68.
	24			72.1	72.1	80.5	80.5		24		1.1	653	65.3	72.9	72.9
84	30			68.2	68.2	76.1	76.1	84	30			61.8	61.8	68.9	68.9
0.4	36	A		64.7	64.7	72.1	72.1		36			58.6	58.6	65.4	65.
	42			61.5	61,5	68.6	68.6		42			55.7	55.7	62.1	62.
	24			89.5	89.5	99.8	99.8		24			81.3	81.3	90.7	90.
60	30			83.2	83.2	92.8	92.8	60	30			75.6	75.6	84.4	84.
.00	36			77,8	77.8	86.7	86.7	00	36			70.7	70.7	78.9	78.
	42			73.0	73.0	81.4	81.4		42			66.4	66.4	74.0	74.
	24	126		78.5	78.5	87.5	87.5	72	24			71.3	71.3	79.5	79.
	30		108	73.6	73.6	82.1	82.1		30	138	120	66.9	66.9	74.6	74.0
12	36			69.3	69.3	77.3	77.3		36	130	120	6.3.0	63.0	70.3	70
	42			65.5	65.5	73.1	73.1		42			59.6	59.6	66.4	66.
	24	2		69.9	69.9	78.0	78.0		24			63.5	63.5	70.8	70.
84	30			66.0	66.0	73.7	73.7		30			60.0	60.0	66.9	66.
04	36	10 500		62.6	62.6	69.8	69.8		36			56.9	56.9	63.4	63.
0	42			59.4	59.4	66.3	66.3		42			54.0	54.0	60.3	60.
	24			86.7	86.7	96.7	96.7		24	1		79.0	79.0	88.1	88.
60	30			80.5	80.5	89.8	89.8	60	30			73.4	73.4	81.9	81.5
.00	36			75.2	75.2	83.9	83.9	00	36			68.6	68.6	76.3	76.
	42			70.5	70.5	78.6	78.6		42			64.3	64.3	71.1	71.
	24			76.1	76.1	84.9	84.9		24			69.3	69.3	77.3	77.
72	30	132	108	71.3	71.3	79.5	79.5	77	30	1.01	120	65.0	65.0	72.5	72.:
12	36	132	106	67.1	67.1	74.8	74.8	72	36	144	120	61.2	61.2	68.2	68.3
	42			63.4	63.4	70.7	70.7		42			57.8	57.8	64.4	64.
JT 19	24			67.8	67.8	75.7	75.7		24			61.8	61.8	68.9	68.
84	30			64.0	64.0	71.4	71.4	04	30			56.3	58.6	65.0	65.0
04	36			60.6	60.6	67.6	67.6	84	36			55.2	55.2	61.6	61.
	42			57.5	57.5	64.1	64.1		42			52.4	52.4	58.5	58.
	24			84.0	84.0	93.5	93.5	_							
60	30			78.0	78.0	86.6	86.6								
60	36			72.8	72.8	80.6	80.6								
								4							

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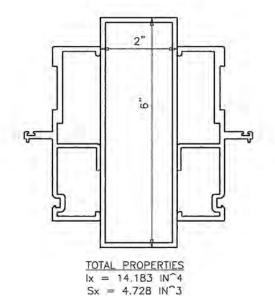
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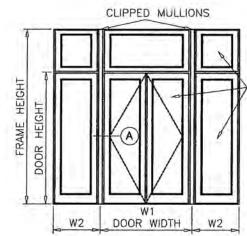
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REFER TO SEPARATE 'WINDOOR' N.O.A. FOR SERIES 450 DOORS, SIDELITES AND TRANSOMS

> LIMIT EXTERIOR LOADS TO +100 PSF FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. SEE CHART ABOVE FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.

PRODUCT REVISED as complying with the Florida Building Code 20-0610.16 NOA-No.

Expiration Date 10/05/2026

Miami-Dade Product Control

A) NO CHANGES THIS SHEET. AK - 06/03/20

4

Rev.

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 06/03/20 MD-450MULL REGISTRATION Date AGK)rown By No. O MULLION LOAD CHARTS INCORPORATED
104 TRIPLE DIAMOND BLVD
NORTH VENICE, FL 34275
(407) 481-8400 450 CLIPPED MULLION 4 19945 NTS Scale 450MULL

A. LYNN MILLER, P.E.

P.E.# 58705

		NOMINAL DIMS.	D CAPACITY - PSF			5/10H A3	ICHORC	-		NOMINAL DIMS.	CAPACITY - PSF			Lence 45	iorion
VIDTI	WIDTH		DOOD HEIGHT	1/4" Ar	CHORS	5/16" A	VCHORS	MINTELL	WIDEIL		DOOD HETCHE	1/4" AN	CHORS	5/16" A1	NCHOR
(W1)	(W2)	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(
	24			110.0	110.0	110.0	110.0	1.5.2	24	31,143,134		96.4	95.4	107.5	107.
CO	30			108.5	108.5	110.0	110.0		30			89.1	89.1	99.4	99.
60	36			101.5	101.5	110.0	110.0	60	36			82.9	62.9	92.5	92.
	42			95.3	95.3	106.3	106.3		42			77.5	77.5	85.5	85.
	24			102.3	102.3	110.0	110.0		24			84.9	84.9	94.7	94.
72	30	96	84	96.0	96.0	107.1	107.1	72	30	126	84	79.2	79.2	88.4	88.
	36	20	94	90.4	90.4	100.9	100.9	12	36	120		74.3	74.3	82.9	82.
	42			85.5	85.5	95.3	95.3		42	(Marie Control		69.9	59.9	78.0	78.
	24		111 110	91.1	91.1	101.6	101.6	1	24			75.9	75.9	84.5	84.
84	30			86.1	86.1	96.0	96.0	84	30			71.3	71.3	79.5	79.
	36			81.6	81.6	91.0	91.0		36			67.3	67.3	75.0	75.
	42 24			77.5	77.5	86.5	86.5		42			63.7	63.7	71.0	71.
- 8	30			110.0	110.0	110.0	110.0		24			93.1	93.1	103.9	103
60	36			97.1	104.0	110.0	110.0 108.3	60	36			86.1	86.1	96.0	96.
18	42	1		91.1	97,1 91.1	101.6	101.6	K	42			80.0	80.0	89.2 83.4	89. 83.
	24			98.3	98.3	101.6	109.6		24			74.7 82.1	74.7 82.1	91.6	91.
	30		11	92.1	92.1	102.7	102.7		30	1		76.6	76.6	85.4	85.
72	36	102	84	86.7	86.7	96.7	96.7	72	36	132	84	71.7	71.7	80.0	80.
	42		11.	81.8	81.8	91.3	91.3		42			67.5	67.5	75.2	75.
	24			87.6	87.6	97.7	97.7		24			73.4	73.4	81.9	81.
	30			82.6	82.6	92.2	92.2	20	30			69.0	69.0	76.9	76
84	36			78.2	78.2	87.3	87.3	84	36			65.0	65.0	72.5	72
	42	la contraction		74.3	74.3	82.9	82.9		42			61.5	61.5	68.6	68.
	24			107.6	107.6	110.0	110.0	-	24			90.1	90.1	100.5	100.
60	30			99.8	99.8	110.0	110.0	60	30			83.2	83.2	92.8	92.
00	36			93.1	93.1	103.9	103.9		36			77.3	77.3	86.2	86.
	42	1		87.3	87.3	97.3	97.3		42	-		72.1	72.1	80.5	80.
	24			94.5	94.5	105.5	105.5		24			79.5	79.5	88.7	88.
72	30	108	84	88.5	88.5	98.7	98.7	72	30	138	84	74.1	74.1	82.6	82
	36	1000	1 24	83.2	83.2	92.8	92.8		36	1.00	-8.5	69.3	69.3	77.3	77.
	42			78.5	78.5	87.5	87.5		42			65.2	65.2	72.7	72.
	24 30			84.3	84.3	94.1	94.1		24			71.1	71.1	79.3	79.
84	36		10.0	79.5	79.5	88.7	88.7	84	30			66.7	66.7	74.4	74.
-	42			75.2 71.3	75.2 71.3	83.9 79.5	83.9 79.5		36 42			62.9	62.9	70.1	70.
	24			103.6	103.6	110.0	110.0		24			59.4 87.3	59.4 87.3	66.3 96.5	66. 96.
	30			96.0	96.0	107.1	107.1		30			80.5	80.5	89.8	89.
60	36			89.5	89.5	99.8	99.8	60	36			74.7	74.7	83.4	83.
	42			83.8	83.8	93.4	93.4		42			69.7	69.7	77.8	77.
	24			91.1	91.1	101.6	101.6		24			77.0	77.0	84.5	84.
70	30	377		85.2	85.2	95.0	95.0		30	- 322	W. W.	71.7	71.7	79.5	79.
72	36	114	84	80.0	80.0	89.2	89.2	72	36	144	84	67.1	67.1	74.8	74.
	42			75.4	75.4	84.1	84,1	100	42			63.0	63.0	70.3	70.
	24			81.3	81.3	90.7	90.7		24			69.0	69.0	75.1	75.
84	30			76.6	76.6	85.4	85.4	94	30	5 (64.7	64.7	71.1	71.
01	36			72.3	72.3	80.7	80.7	84	36			60.9	60.9	67.6	67.
	42			68.6	68.6	76.5	76.5		42			57.5	57.5	64.1	64.
- 7	24			99.8	99.8	110.0	110.0								
60	30			92.4	92.4	103.1	103.1								
13/20	36			86.1	86.1	96.0	96.0								
	42			80.5	80.5	89.8	89.8								
					W711	1 (107/)	DU A								

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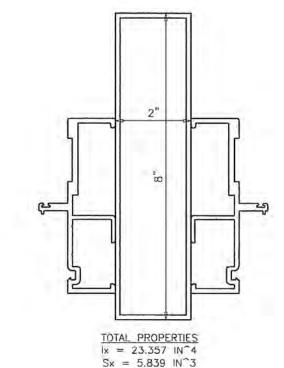
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120

72



PRODUCT REVISED as complying with the Florida
Building Code 20-0610.16 NOA-No.

Expiration Date 10/05/2026

Miami-Dade Product Control

A) NO CHANGES THIS SHEET. AK - 06/03/20

06/03/20

Date

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

0 P MULLION LOAD CHARTS 450 CLIPPED MULLION 2 19945 NTS 450MULL Scole

Rev.

MD-450MULL

DWG

AGK

Drowi By

Series Title Desc.

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

REFER TO SEPARATE 'WINDOOR' N.O.A FOR SERIES 450 DOORS, SIDELITES AND TRANSOMS

DOOR WIDTH

CLIPPED MULLIONS

RESISTANCE IS REQUIRED. SEE CHART ABOVE FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.

LIMIT EXTERIOR LOADS TO +100 PSF FOR INSTALLATIONS WHERE WATER INFILTRATION

			D CAPACITY - PSF	. (2 X 8 X 1	1/8")						D CAPACITY - PSI	(2 X 8 X 1	/8")
	Carrier?	NOMINAL DIMS.		1/4" AN	CHORS	5/16" Al	NCHORS			NOMINAL DIMS.		1/4" AN	CHORS
WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)
	24			103.1	103.1	110.0	110.0		24	production for the		87.0	87.0
60	30			96.0	96.0	107.1	107.1	60	30	138		80.5	80.5
OU	36			89.8	89.8	100.1	100.1	00	36		96	75.0	75.0
	42			84.3	84.3	94.1	94.1		42			70.1	70.1
	24			90.4	90.4	100.9	100.9		24			76.6	76.6
72	30	108	96	84.9	84.9	94.7	94.7	72	30			71.5	71.5
12	36	100	96	80.0	80.0	89.2	89.2	12	36			67.1	67.1
	42			75.6	75.6	84.4	84.4		42			63,2	63.2
	24			80.5	80.5	89.8	89.8		24			68.4	68.4
84	30			76.1	76.1	84.9	84.9	84	30			64.3	64.3
.04	36			72.1	72.1	80.5	80.5		36			60.7	60.7
	42			68.6	68.6	76.5	76.5		42			57.5	57.5
	24			99.4	99.4	110.0	110.0	60	24	144		84.3	84.3
60	30			92,4	92.4	103.1	103.1		30			78.0	78.0
00	36			86.4	86.4	96.3	96.3		36			72.6	72.6
	42			81.0	81.0	90.4	90.4		42			67.8	67.8
	24		96	87.3	87.3	97,3	97.3	72	24			74.3	74.3
72	30	114		81.8	81.8	91.3	91.3		30		96	69.3	69.3
12	36			77.0	77.0	85.9	85.9		36			65.0	65.0
	42			72.8	72.8	81.2	81,2		42			61.2	61.2
	24			77.8	77.8	86.7	86.7		24			66.4	66.4
84	30			73.4	73.4	81.9	81.9	84	30			62.4	62.4
04	36			69.5	69.5	77.5	77.5	04	36			58.9	58.9
	42	10.		66.0	66.0	73.7	73.7		42			55.7	55.7
	24			96.0	96.0	107.1	107.1						
60	30			89.1	89.1	99.4	99.4						
OU	36			83.2	83.2	92.8	92.8						
	42			78.0	78.0	87.0	87.0						
	24	17		84.3	84.3	94.1	94.1						
72	30	120	96	79.0	79.0	88.1	88.1						
12	36	120	30	74.3	74.3	82.9	82.9						
	42			70.1	70.1	78.2	78.2	1					
	24			75.2	75.2	83.9	83.9						
84	30	1		70.9	70.9	79.1	79.1						
Ů.	36	1		67,1	67.1	74.6	74.8						
	42			63.7	63.7	71,0	71.0	1					
	24	P		92.8	92.8	103.5	103.5						

80.3

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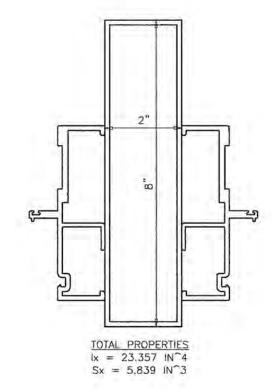
60

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84

60

72



5/16" ANCHORS

INT.(-)

97.0

89.8

83,6

78,2

85.4

79.8

74.8

70.5

76.3

71.8

67.7

64.1

94.1

87.0

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EXT.(+)

97.0

89.8

83.6

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79.8

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69.6

65.7

62.1

CLIPPED MULLIONS

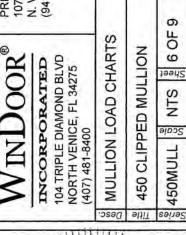
REFER TO SEPARATE 'WINDOOR' N.O.A.
FOR SERIES 450 DOORS, SIDELITES
AND TRANSOMS

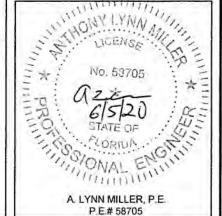
W2

DOOR WIDTH

LIMIT EXTERIOR LOADS TO +100 PSF FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. SEE CHART ABOVE FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.







			D CAPACITY - PSF	-							D CAPACITY - PSF	.(2X8X1	(8")	3	
-		NOMINAL DIMS.		1/4" AN	CHORS	5/16" Al	NCHORS	Y1 ====		NOMINAL DIMS.		1/4" AN	CHORS	5/16" A	NCHORS
WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
1799	24			92.4	92.4	103.1	103.1		24			83.8	83.8	93.4	93.4
60	30			86.1	86.1	96.0	96.0	60	30			78.0	78.0	87.0	87.0
00	36			80.5	80.5	89.8	89.8	00	36			73.0	73.0	81.4	81.4
	42			75.6	75.6	84.4	84.4		42			68.6	68.6	76.5	76.5
	24			81,0	81.0	90.4	90.4		24			73.4	73.4	81.9	81.9
72	30	120	108	76.1	76.1	84.9	84.9	72	30	132	120	69.0	69.0	76.9	76.9
12	36	120	100	71.7	71.7	80.0	80.0	/2	36		120	65.0	65.0	72.5	72.5
42			67.8	67.8	75.7	75.7		42			61.5	61.5	68.6	68.6	
	24	ŀ		72.1	72.1	80.5	80.5		24			65.3	65.3	72.9	72.9
84	30			68.2	68.2	76.1	76.1	84	30			61.8	61.8	68.9	68.9
04	36			64.7	64.7	72.1	72.1	04	36			58.6	58.6	65.4	65.4
	42	1		61.5	61.5	68.6	68.6		42			55.7	55.7	62.1	62.1
	24			89,5	89.5	99.8	99.8		24			81.3	81.3	90.7	90.7
60	60 30 36			83.2	83.2	92.8	92.8	200	30			75.6	75.6	84.4	84.4
0Ú		1		77.8	77.8	86.7	86.7	60	36			70.7	70.7	78.9	78.9
	42			73.0	73.0	81.4	81.4		42			66.4	66.4	74.0	74.0
	24			78.5	78.5	87.5	87.5	1.	24			71.3	71.3	79.5	79.5
72	30	126	108	73.5	73.6	82,1	82.1	72	30	120	100	66.9	66.9	74.6	74.6
12	36			69.3	69.3	77.3	77.3	72	36	138	120	63.0	63.0	70.3	70.3
	42			65.5	65.5	73.1	73.1		42			59.6	59.6	66.4	66.4
	24			69.9	69.9	78.0	78.0		24			63.5	63.5	70.8	70.8
84	30			66.0	66.0	73.7	73.7		30			60.0	60.0	66.9	66.9
04	36	1		62.6	62.6	69.8	69.8	84	36	1		56.9	56.9	63.4	63.4
	42			59.4	59.4	66.3	66.3		42			54.0	54.0	60.3	60.3
	24			86.7	86.7	96.7	96.7	The state of	24			79.0	79.0	88.1	88.1
60	30			80.5	80.5	89.8	89.8	CO	30			73.4	73.4	81.9	81.9
00	36			75.2	75.2	83.9	83,9	60	36			68.6	68.6	76.5	76.5
	42			70.5	70.5	78.6	78.6		42)		64.3	64.3	71.8	71.8
	24			76.1	76.1	84.9	84.9		24			69.3	69.3	77.3	77.3
72	30	132	100	71.3	71.3	79.5	79.5		30	744	100	65.0	65.0	72.5	72.5
12	36	132	108	67.1	67.1	74.8	74.8	72	36	144	120	61.2	61.2	68.2	68.2
	42			63.4	63.4	70.7	70.7	1	42			57.8	57.8	64.4	64.4
	24			67.8	67.8	75.7	75.7		24			61.8	61.8	68.9	68.9
0.4	30			64.0	64.0	71.4	71.4		30			58.3	58.3	65.0	65.0
84	36			60.6	60.6	67.6	67.6	84	36			55.2	55.2	61.6	61.6
	42			57.5	57.5	64.1	64.1	1	42			52.4	52.4	58.5	58.5
	24			84.0	84.0	93.7	93.7								
60	30		1	78.0	78.0	87.0	87.0								
00		1	1												

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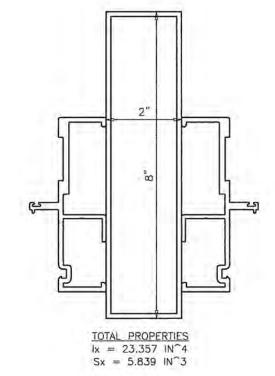
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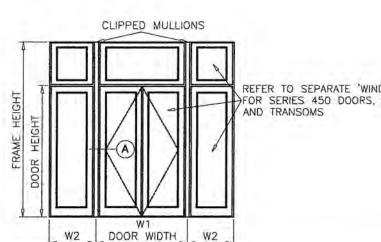
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REFER TO SEPARATE 'WINDOOR' N.O.A. FOR SERIES 450 DOORS, SIDELITES

PRODUCT REVISED as complying with the Florida Building Code 20-0610.16 NOA-No.

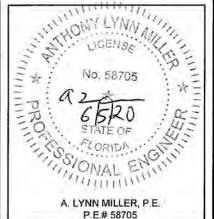
Expiration Date 10/05/2026

Miami-Dade Product Control

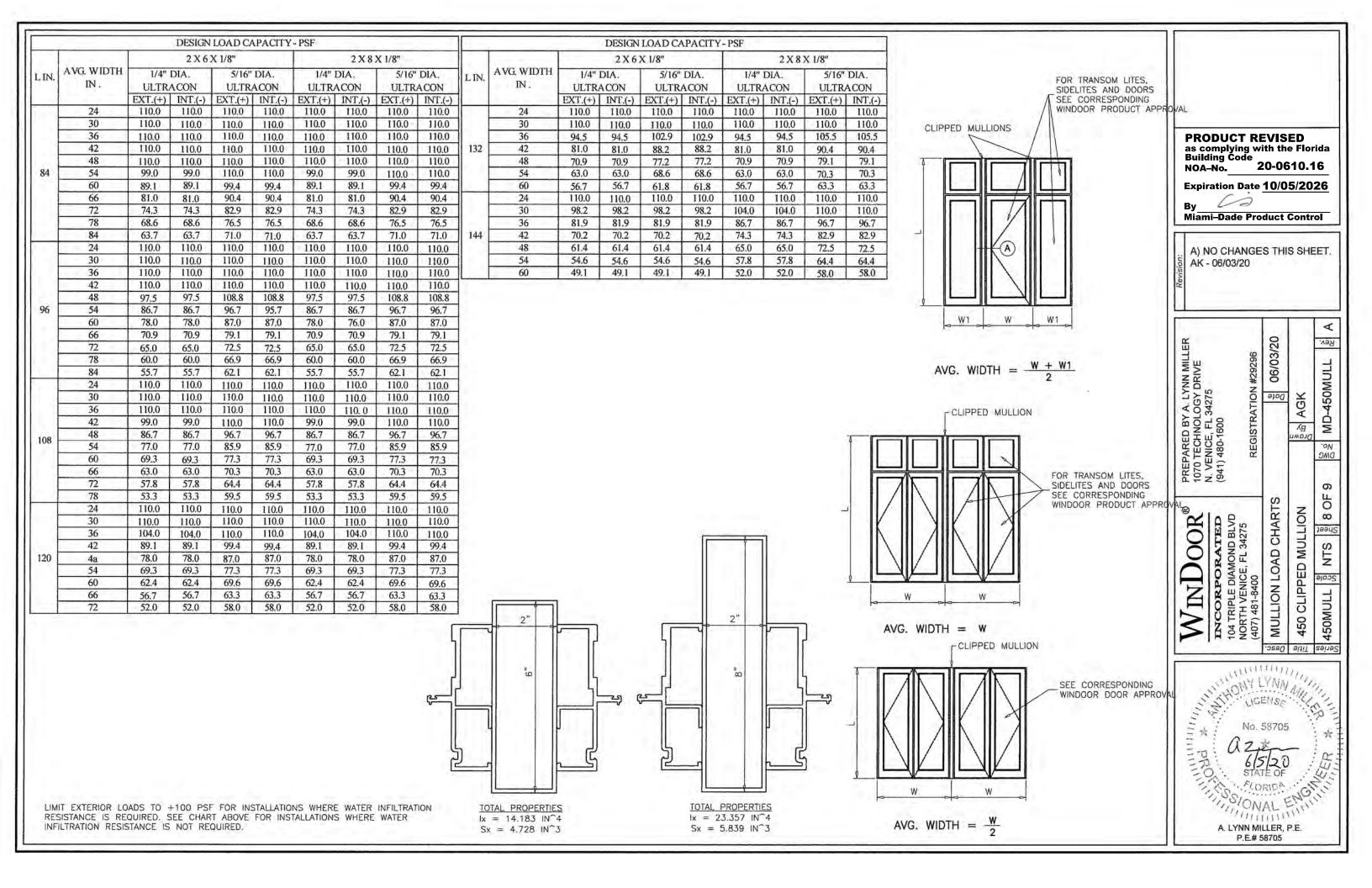
A) NO CHANGES THIS SHEET. AK - 06/03/20

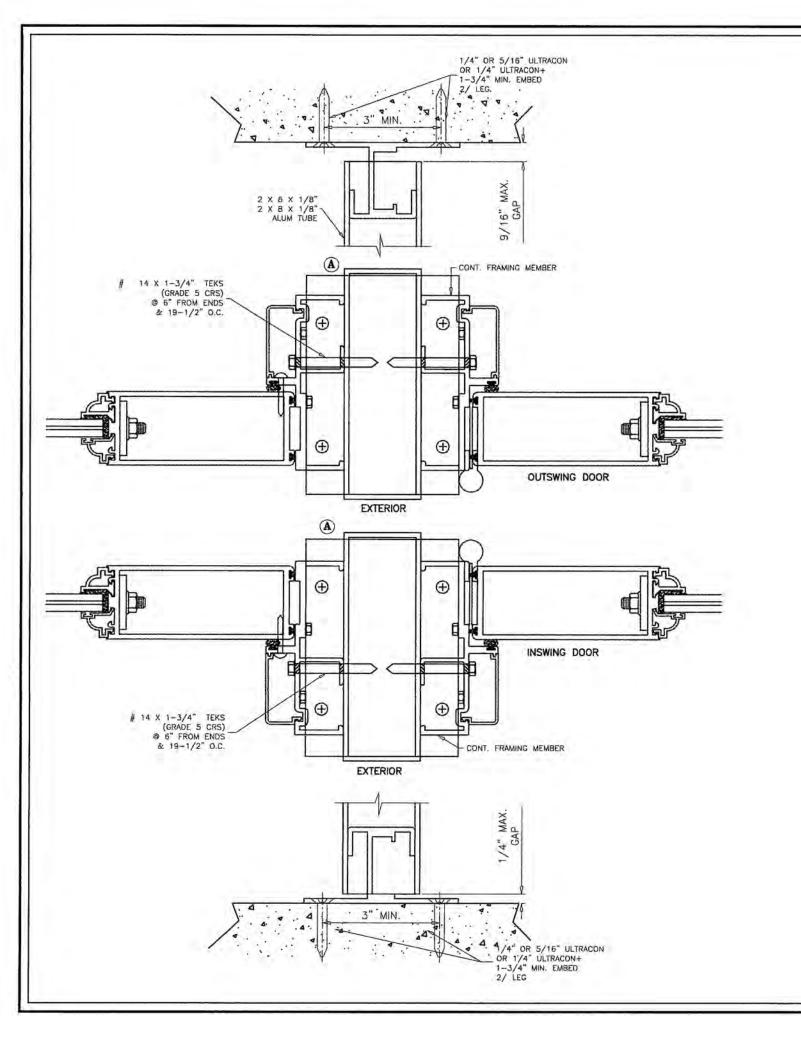
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 06/03/20 Rev. MD-450MULL REGISTRATION Date AGK Nrawn By DWG No. 0

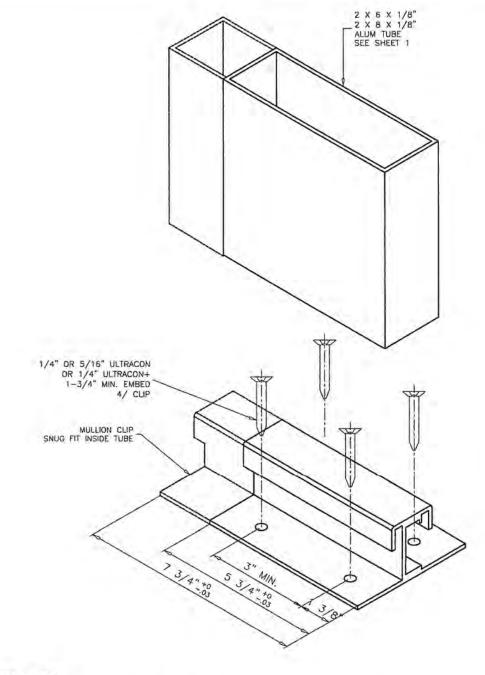
PP MULLION LOAD CHARTS INCORPORATED
104 TRIPLE DIAMOND BLVD
NORTH VENICE, FL 34275
(407) 481-8400 450 CLIPPED MULLION Sheet NTS 450MULL



LIMIT EXTERIOR LOADS TO +100 PSF FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. SEE CHART ABOVE FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.







NOTES:

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

2-1/2" MIN. EDGE DISTANCE

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) 2-1/2" MIN. EDGE DISTANCE

5/16" DIA. ULTRACON BY 'ELCO/DEWALT' (Fu=177 KSI, Fy=155 KSI) 3-1/4" MIN. EDGE DISTANCE

CONCRETE f'c = 3000 PSI MIN.

PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-0610.16 NOA-No.

Expiration Date 10/05/2026

Miami-Dade Product Control

4

Rev.

450MULL

A) ADDED ULTRACON+ ANCHORS. AK - 06/03/20

06/03/20 PREPARED BY A. LYNN MILLE 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296 MD-450MULL AGK Dote Drawi ANCHORS No. 6 9 OF INSTALLATION DETAILS, INCORPORATED
104 TRIPLE DIAMOND BLVD
NORTH VENICE, FL 34275
(407) 481-8400 450 CLIPPED MULLION Sheet NTS Scale

