

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)

CGI Windows and Doors, Inc. 3780 W 104th Street Hialeah, FL 33018

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 "Sentinel" Unclipped Mullion - L.M.I.

APPROVAL DOCUMENT: Drawing No. **MD-SENMUL**, titled "Series Sentinel Unclipped Mullions", sheets 1 through 7 of 7, 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# 18-0117.01** 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.



5,2. 09/10/2020

NOA No. 20-0610.11 Expiration Date: September 22, 2025 Approval Date: September 10, 2020

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

- 1. Manufacturer's die drawings and sections. (Submitted under NOA No.10-0510.14)
- 2. Drawing No M10-01, titled "Series Sentinel Unclipped Alum. Mullions", sheets 1 through 7 of 7, dated 04/02/10, with revision D dated 11/08/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94

along with marked-up drawings and installation diagram of an aluminum tube mullion, prepared by Hurricane test Laboratory, LLC, Test Report No. **HTL-0080-0303-11**, dated 03/24/11, signed and sealed by Vinu J. Abraham, P.E.

(Submitted under NOA No.11-0330.22)

- 2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of an aluminum tube mullion, prepared by Hurricane test Laboratory, LLC, Test Report No. **HTL-0080-0301-10**, dated 03/30/10, signed and sealed by Vinu J. Abraham, P.E.

(Submitted under NOA No.10-0510.14)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 10/15/14 and updated on 09/25/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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 5th Edition (2014), and of no financial interest, dated October 4, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
- 2. Laboratory compliance letter for Test Report No. HTL-0080-0303-11, issued by Hurricane Test Laboratory, LLC, dated March 24, 2011, signed and sealed by Vinu J. Abraham, P.E. (Submitted under NOA No.11-0330.22)

Sifang Zhao, P.E. Product Control Examiner

NOA No. 20-0610.11 Expiration Date: September 22, 2025

Approval Date: September 10, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

- 3. Laboratory compliance letter for Test Report No. HTL-0080-0301-10, issued by Hurricane Test Laboratory, LLC, dated March 30, 2010, signed and sealed by Vinu J. Abraham, P.E. (Submitted under NOA No. 10-0510.14)
- 4. Proposal No. **09-1942** issued by BCCO, dated November 05, 2009, signed by Manuel Perez, P.E. (Submitted under NOA No.10-0510.14)

G. OTHERS

1. Notice of Acceptance No. **14-1103.09**, issued to CGI Windows & Doors for their Series "Sentinel" Unclipped, Extruded Aluminum Tube Mullion - L.M.I. approved on 03/05/15 and expiring on 09/22/20.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. MD-SENMUL, titled "Series Sentinel Unclipped Mullions", sheets 1 through 7 of 7, dated 06/03/2020, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

B. TESTS

1. None

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-6th Edition (2017) and FBC-7th (2020) dated 05/27/2020, 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 June 03, 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. **18-0117.01**, issued to CGI Windows & Doors for their Series "Sentinel" Unclipped, Extruded Aluminum Tube Mullion - L.M.I. approved on 03/01/18 and expiring on 09/22/20.

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 20-0610.11
Expiration Date: September 22, 2025

Approval Date: September 22, 2023

SERIES SENTINEL UNCLIPPED ALUMINUM MULLIONS WINDOW FRAME MEMBER INCLUDED IN PROPERTIES

THESE MULLIONS TO BE USED WITH
SERIES 130 SENTINEL FIXED WINDOW
SERIES 110 SENTINEL SINGLE HUNG WINDOW
SERIES 120 SENTINEL HORIZ. SLIDING WINDOW
FOR WINDOWS IMPACT AND LOAD RATINGS SEE
CORRESPONDING NOA'S.
LOWER DESIGN PRESSURE FROM WINDOW APPROVALS

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

OR MULLION CHARTS WILL APPLY TO ENTIRE SYSTEM.

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 LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

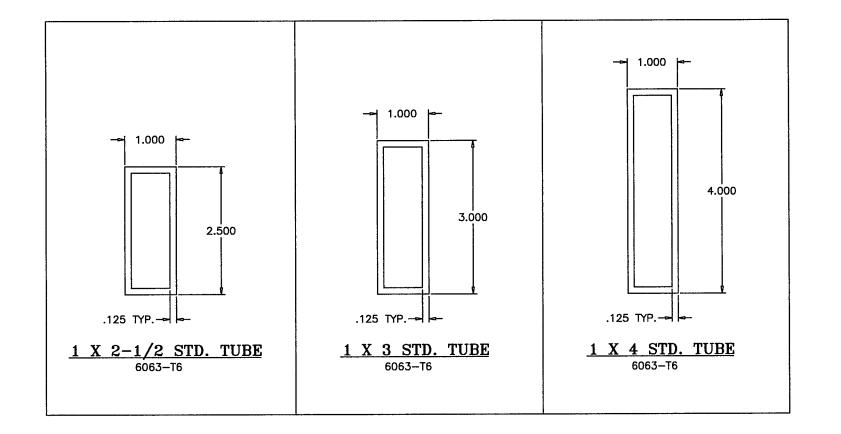
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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

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 STANDARDS.

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.

THESE MULLIONS ARE RATED FOR LARGE & SMALL MISSILE IMPACT



INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1 DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.

STEP 2 USE CONNECTION OF WINDOWS TO MULLION AS PER PRODUCT APPROVAL.

STEP 3 USING CHARTS ON SHEETS 3 THRU 5 SELECT MULLION TYPE AND ANCHOR QUANTITIES WITH DESIGN RATING MORE THAN THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

CTEP 4 CAPACITY OF SELECTED CGI'S WINDOWS AND MULLION MUST EQUAL OR EXCEED REQUIRED LOADS.

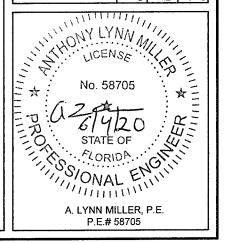
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0610.11

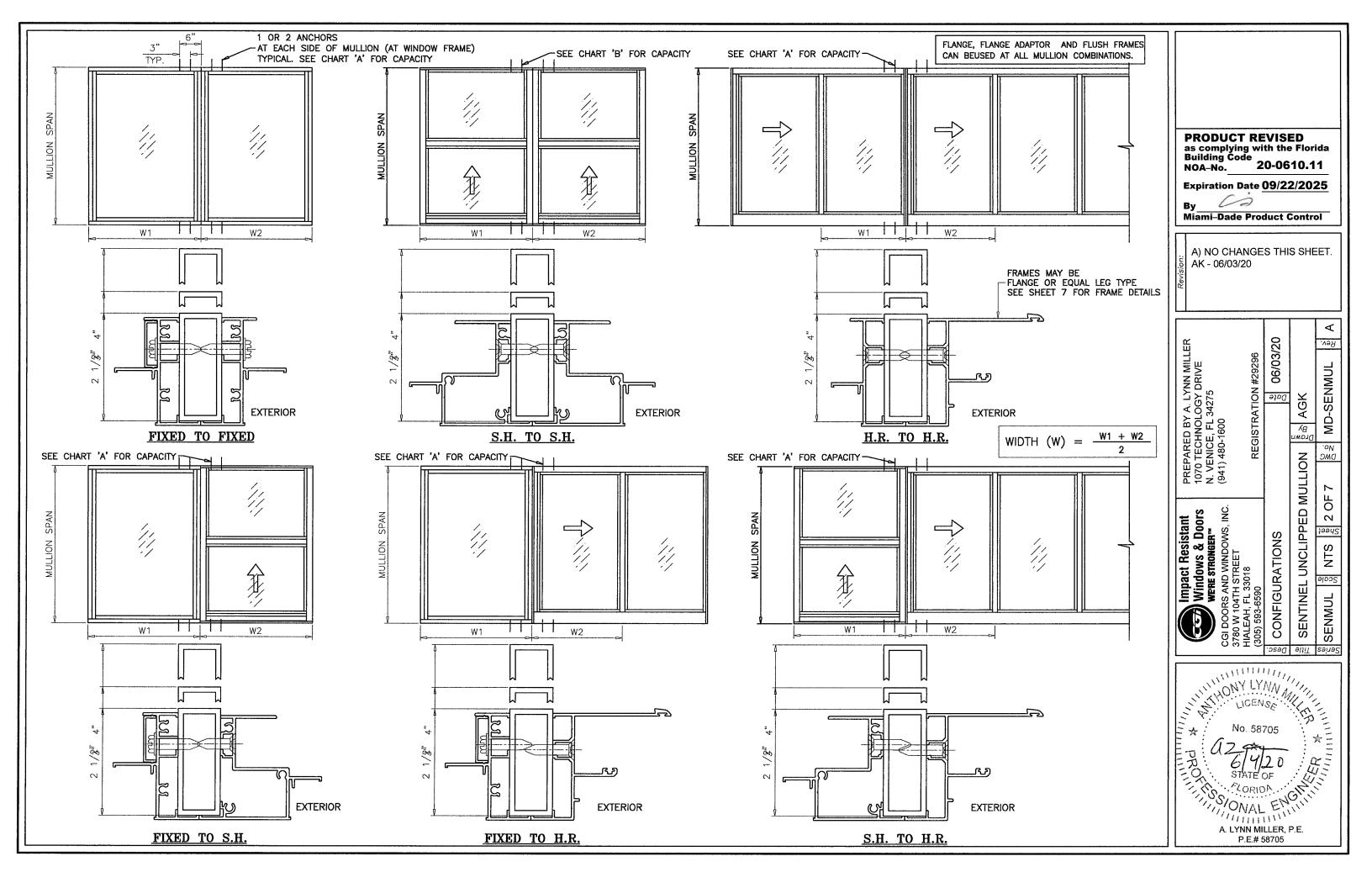
Expiration Date 09/22/2025

By ______ 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-SENMUL REGISTRATION Date AGK Оками Ву NOTES .oN SENTINEL UNCLIPPED MULLION DMC INSTRUCTIONS, Я Impact Resistant
Windows & Doors
WERE STRONGER...
RS AND WINDOWS, INC.
04TH STREET
FL 33018 $\overline{}$ Sheet NTS MULLIONS, Scale SENMUL





	Cł	IAR'	Γ 'A	' DE	ESIGN	LOA	D C	4PA	CITY	- PSF	
MUI	LION	N WI	ГΗ	ANY	COMI	BINAT	ION	OF	SERIES	SENTINEL	ر
FIXI	ED. H	IORIZ	ON'	ΓAL	SLIDI	NG OR	SIN	GLE	HUNG	WINDOWS	S

	r	IXED, HURIZU	NIAL SCIDING	J OK SINGLE	HUNG WINDO	w S	
WINDO	OW DIMS.	1	ANCHOR A	Γ	2	ANCHORS A	·Τ
WINDO	W DIMB.	EACH	SIDE OF MU	LLION	EACH	SIDE OF MU	LLION
VIDTH (W)	MULL SPAN	MULL TUBE	MULL TUBE	MULL TUBE	MULL TUBE	MULL TUBE	MULL TUB
11D111 (11)	WOLL BIAN	1 X 2-1/2	1 X 3	1 X 4	1 X 2-1/2	1 X 3	1 X 4
19-1/8"		90.0	90.0	90.0	90.0	90.0	90.0
26-1/2"	ŀ	90.0	90.0	90.0	90.0	90.0	90.0
37"	50-5/8"	82.9	82.9	82.9	90.0	90.0	90.0
49"		76.9	76.9	76.9	90.0	90.0	90.0
53-1/8"		76.9	76.9	76.9	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0	90.0	90.0
26-1/2"		74.7	74.7	74.7	90.0	90.0	90.0
37"	63"	59,8	59.8	59.8	83.3	90.0	90.0
49"		52,2	52.2	52.2	70.7	90.0	90.0
53-1/8"		50.9	50.9	50.9	68.5	90.0	90.0
19-1/8"		77.5	77.5	77.5	81.5	90.0	90.0
26-1/2"	76"	59.2	59.2	59.2	60.2	80.3	90.0
37"		45.3	46.3	46.3	45.3	60.4	90.0
49"		37.0	39.0	39.0	37.0	49.3	77.3
53-1/8"		35.2	37.5	37.5	35.2	47.0	73.4
19-1/8"		57.9	68.3	68.3	57.9	77.3	90.0
26-1/2"		42.6	51.8	51.8	42.6	56.8	90.0
37"	85"	31.7	40.0	40.0	31.7	42.3	74.3
49"		25.5	33.2	33.2	25.5	34.0	59.3
53-1/8"		24.1	31.7	31.7	24.1	32.2	55.9
19-1/8"		48.7	64.0	64.0	48.7	65.0	90.0
26-1/2"	90"	35.7	47.7	48.4	35.7	47.7	83.7
37"	90.	26.5	35.3	37.2	26.5	35.3	62.1
49"	1	21.1	28.2	30.7	21.1	28.2	49.5
19-1/8"		40.0	53.4	59.6	40.0	53.4	90.0
26-1/2"	96"	29.3	39.1	44.9	29.3	39.1	68.7
37"		21.6	28.9	34.3	21.6	28.9	50.7

NOTE:
MULLIONS RATED IN THESE CHARTS WITH ANY COMBINATION
OF FIXED, SINGLE HUNG OR HORIZ. SLIDING WINDOWS
MAY BE ORIENTED VERTICALLY OR HORIZONTALLY.
(INTERPOLATION BETWEEN WIDTHS ALLOWED)

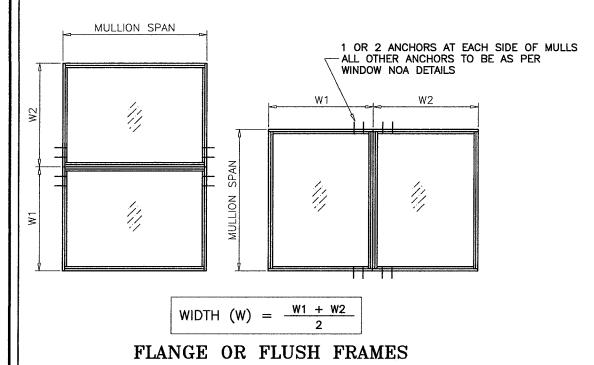
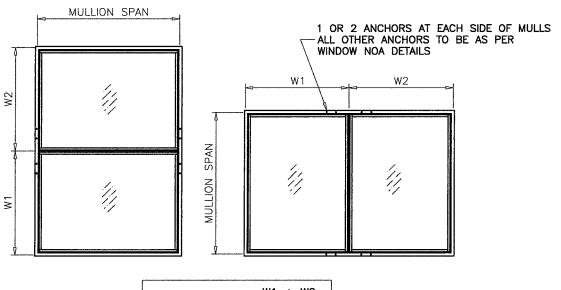


CHART 'A' DESIGN LOAD CAPACITY - PSF MULLION WITH ANY COMBINATION OF SERIES SENTINEL FIXED, HORIZONTAL SLIDING OR SINGLE HUNG WINDOWS

ı			FIXED, HORIZ	ONTAL SLIDIN	G OR SINGLE H	UNG WINDOWS				
┪	WINDO	OW DIMS.	1	ANCHOR A	Т	2	ANCHORS A	T		
╝	WINDC	W DIWIS.		SIDE OF MU			SIDE OF MU			
EΕ	WIDTH (W)	MULL SPAN	MULL TUBE	MULL TUBE	MULL TUBE	MULL TUBE	MULL TUBE	MULL TUBE		
╝	, ,	WOLL SIAN	1 X 2-1/2	1 X 3	1 X 4	1 X 2-1/2	1 X 3	1 X 4		
	24"		90.0	90.0	90.0	90.0	90.0	90.0		
	30"		90.0	90.0	90.0	90.0	90.0	90.0		
	36"		90.0	90.0	90.0	90.0	90.0	90.0		
	42"	48"	86.9	86.9	86.9	90.0	90.0	90.0		
	48"		85.5	85.5	85.5	90.0	90.0	90.0		
	54"		85,5	85.5	85.5	90.0	90.0	90.0		
	60"		85.5	85.5	85.5	90.0	90.0	90.0		
	24"		85.5	85.5	85.5	90.0	90.0	90.0		
	30"		73.0	73.0	73.0	90.0	90.0	90.0		
	36"	601	65.1	65.1	65.1	90.0	90.0	90.0		
П	42"	60"	60.1	60.1	60.1	90.0	90.0	90.0		
\neg	48"		57.0	57.0	57.0	84.9	90.0	90.0		
\neg	54"		55.3	55.3	55.3	81.7	90.0	90.0		
	60"		54.7	54.7	54.7	80.6	90.0	90.0		
	24"		68.4	68.4	68.4	77.8	90.0	90.0		
٦	30"		57.6	57.6	57.6	63.9	85.3	90.0		
\neg	36"		50.7	50.7	50.7	55.0	73.4	90.0		
ヿ	42"	72"	46.0	46.0	46.0	49.0	65.4	90.0		
\neg	48"	12	42.8	42.8	42.8	45.0	60.0	85.5		
╗	54"		40.5	40.5	40.5	42.2	56.2	81.1		
٦	60"		39.1	39.1	39.1	40.3	53.8	78.2		
	24"		48.4	57.0	57.0	48.4	64.6	90.0		
П	30"		39.5	47.6	47.6	39.5	52.7	90.0		
	36"	84"	33.7	41.5	41.5	33.7	44.9	78.4		
П	42"	04	29.7	37.2	37.2	29.7	39.6	68.8		
1	48"		26.9	34.2	34.2	26.9	35.8	61.9		
目	54"		24.8	32.0	32.0	24.8	33.1	56.9		
	24"		32.2	43.0	48.9	32.2	43.0	75.5		
	30"		26.1	34.9	40.5	26.1	34.9	61.2		
	36"	96"	22.2	29.6	35.1	22.2	29.6	51.9		
	42"		-	25.9	31.3	-	25.9	45.5		
	48"		-	23.2	28.5	-	23.2	40.8		
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FIN FRAMES

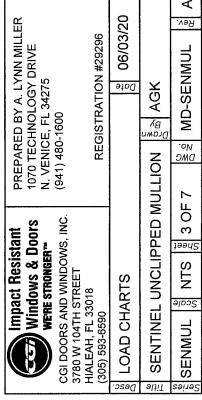
NOTE: REFER TO PAGE 2 FOR OTHER COMBINATIONS.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0610.11

Expiration Date 09/22/2025

By
Miami-Dade Product Control

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



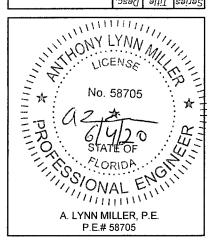


CHART 'B' DESIGN LOAD CAPACITY - PSF MULLION WITH COMBINATION OF SERIES SENTINEL SINGLE HUNG WINDOWS OR FIXED TRANSOM

CHART 'B' DESIGN LOAD CAPACITY - PSF MULLION WITH COMBINATION OF SERIES SENTINEL SINGLE HUNG WINDOWS OR FIXED TRANSOM

22.7

28.5

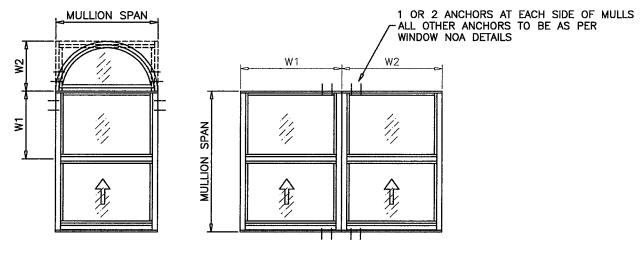
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1 ANGHOD ATT							<u> </u>								
WINDO	W DIMS.		1 ANCHOR A	T	2	ANCHORS A	T	WINDO	W DIMS.		I ANCHOR A	T		ANCHORS A	
WINDO	W DIM S.	EACH	SIDE OF MU	ILLION	EACH	SIDE OF MU	ILLION	li		EACH	SIDE OF MU			SIDE OF MU	
WIDTH (W)	MULL SPAN	MULL TUBE	MULL TUBE	MULL TUBE	MULL TUBE	MULL TUBE	MULL TUBE	WIDTH (W)	MIII L SPAN	MULL TUBE	5	MULL TUBE	MULL TUBE		MULL TUBE
WIBITI (W)	WICEE SITTIV	1 X 2-1/2	1 X 3	1 X 4	1 X 2-1/2	1 X 3	1 X 4		WICEE SI MIN	1 X Z-1/Z	1 X 3	1 X 4	1 X 2-1/2	1 X 3	1 X 4
19-1/8"		90.0	90.0	90.0	90.0	90.0	90.0	24"		90.0	90.0	90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0	90.0	90.0	30"		90.0	90.0	90.0	90.0	90.0	90.0
37"	50-5/8"	82.9	82.9	82.9	90.0	90.0	90.0	36"		90.0	90.0	90.0	90.0	90.0	90.0
49"		76.9	76.9	76.9	90.0	90.0	90.0	42"	48"	86.9	86.9	86.9	90.0	90.0	90.0
53-1/8"		76.9	76.9	76.9	90.0	90.0	90.0	48"		85.5	85.5	85.5	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0	90.0	90.0	54"		85.5	85.5	85.5	90.0	90.0	90.0
26-1/2"		74.7	74.7	74.7	90.0	90.0	90.0	60"		85.5	85.5	85.5	90.0	90.0	90.0
37" 63" 49"	63"	59.8	59.8	59.8	90.0	90.0	90.0	24"		85.5	85.5	85.5	90.0	90.0	90.0
		52.2	52.2	52.2	90.0	90.0	90.0	30"		73.0	73.0	73.0	90.0	90.0	90.0
53-1/8"		50.9	50.9	50.9	89.4	90.0	90.0	36"		65.1	65.1	65.1	90.0	90.0	90.0
19-1/8"		77.5	77.5	77.5	90.0	90.0	90.0	42"	60"	60.1	60.1	60.1	90.0	90.0	90.0
26-1/2"	76"	59.2	59.2	59.2	78.5	90.0	90.0	48"	54" 60"	57.0	57.0	57.0	90.0	90.0	90.0
37"		46.3	46.3	46.3	59.0	74.2	90.0	60"		55.3	55.3	55.3	90.0	90.0	90.0
49"		39.0	39.0	39.0	48.2	60.6	78.1			54.7	54.7	54.7	90.0	90.0	90.0
53-1/8"		37.5	37.5	37.5	46.0	57.7	75.0	24"		68.4	68.4	68.4	90.0	90.0	90.0
19-1/8"		68.3	68.3	68.3	75.6	90.0	90.0	30"		57.6	57.6	57.6	83.4	90.0	90.0
26-1/2"	85"	51.8	51.8	51.8	55.6	69.8	90.0	36"	42" 72" 48" 54"	50.7	50.7	50.7	71.8	90.0	90.0
37"		40.0	40.0	40.0	41.4	52.0	80.1	42"		46.0	46.0	46.0	64.0	80.4	90.0
49"		33.2	33.2	33.2	33.2	41.7	66.5	48"		42.8	42.8	42.8	58.6	73.7	85.5
53-1/8"		31.4	31.7	31.7	31.4	39.5	63.5	54"		40.5	40.5	40.5	55.0	69.1	81.1
19-1/8"		63.5	64.0	64.0	63.5	79.8	90.0	60"		39.1	39.1	39.1	52.6	66.1	78.2
26-1/2"	90"	46.6	48.4	48.4	46.6	58.6	90.0	24"		57.0	57.0 57.0 63.2	79.4	90.0		
37"	90	34.5	37.2	37.2	34.5	43.4	70.1	30"		47.6	51.5	64.7	90.0		
49"		27.5	30.7	30.7	27.5	34.6	55.9	36"	84"	41.5	41.5	41.5	43.9	55.2	82.9
19-1/8"		52.2	59.6	59.6	52.2	65.6	90.0	42"	0-7	37.2	37.2	37.2	38.7	48.7	74.4
26-1/2"	96"	38.2	44.9	44.9	38.2	48.1	77.6	48"		34.2	34.2	34.2	35.0	44.0	68.4
37"		28.2	34.3	34.3	28.2	35.4	57.3	54"		32.0	32.0	32.0	32.4	40.7	64.0
NOTE:								24"		42.0	48.9	48.9	42.0	52.8	85.3
MULLIC	ONS RATED IN							30"		34.1	40.5	40.5	34.1	42.8	69.2
1	E ORIENTED			ALLY AS SHO	WN BELOW.			36"	96"	28.9	35.1	35.1	28.9	36.3	58.7
(INTER	POLATION BE	TWEEN WIDTH	S ALLOWED)					42"		25.3	31.3	31.3	25.3	31.8	51.4
İ											 	 	 	 	



WIDTH (W) = $\frac{\text{W1 + W2}}{2}$

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0610.11

Expiration Date 09/22/2025

By Miami-Dade Product Control

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

	IIIIpaci nesisialii	Stall	PRE	ZARE	PREPARED BY A. LYNN MILLER	NN MILLE	ĸ
	Windows & Doors	Doors	1070	TEC	1070 TECHNOLOGY DRIVE	DRIVE	
NE.	WE'RE STRONGER"	H.	N. KE	SING	N. VENICE, FL 34275		
CGI DOORS AND WINDOWS, INC.	ND WINDO	WS, INC.		480	(941) 480-1600		
3780 W 104TH STREET	STREET						
HIALEAH, FL 33018	3018						
(305) 593-6590				REG	REGISTRATION #29296	1 #29296	
LOAD CHARTS	IARTS				Date	02/20/90	2
SENTINEL UNCLIPPED MULLION RES AGK	IL UNCLI	PPED	MULLIO	z	Draw AGK		
SENMUL Scole A OF 7	Scale Scale	19942 4		DWG No.	DWC MD-SENMUL		Rev.
_		5	_	_			_

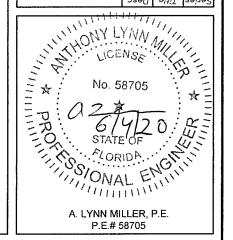
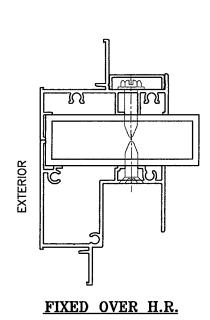


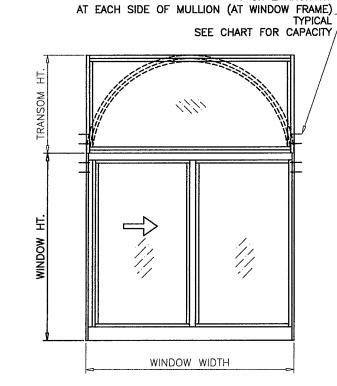
CHART 'C' DESIGN LOAD CAPACITY - PSF HORIZONTAL MULLION WITH COMBINATION OF SERIES SENTINEL FIXED OVER HORIZ. SLIDING WINDOW

,	WINDOW DI	MS.		HOR AT		HORS AT
			EACH SIDE C		EACH SIDE	OF MULLION
WINDOW	WINDOW	TRANSOM	MULL TUBE		MULL TUBE	MULL TUBE
WIDTH	HEIGHT	HEIGHT	1 X 2-1/2		1 X 3	1 X 4
		12"	90.0		90.0	90.0
		18"	90.0	90.0	90.0	90.0
		24"	90.0			
52-1/8"		30"	90.0	90.0	90.0	
		36"	90.0	E OF MULLION EACH SIDE OF MULLION MULL TUBES	90.0	
		42"	90.0	90.0	90.0	90.0
	0.54	48"	90.0	90.0	90.0	90.0
	25"	12"	90.0	90.0	90.0	90.0
		18"	900	90.0	90.0	90.0
		24"	82.9	82.9	90.0	90.0
73"		30"	74.3	74.3	90.0	90.0
		36"	68.1	68.1	90.0	90.0
		42"	63.6	63.6	85.0	90.0
		48"	60.3			
		12"	90.0	90.0	90.0	90.0
		18"	90.0	90.0	90.0	90.0
		24"	90.0	90.0	90.0	90.0
52-1/8"		30"	90.0	90.0	90.0	90.0
		36"	89.4	89.4	90.0	90.0
		42"	86.3	86.3	90.0	90.0
	277 2 (01)	48"	84.8	90.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0	90.0	
	37-3/8"	12"	90.0	90.0	90.0	90.0
		18"	78.3	78.3	90.0	90.0
		24"	69.7	69.7	90.0	90.0
73"		30"	63.5	63.5	88.0	90.0
		36"	58.9	BE MULL TUBES 1 X 3	90.0	
		42"	55.5	55.5	73.3	90.0
		48"	52.9	53.0	67.6	90.0
		12"	90.0	90.0	90.0	90.0
		18"	90.0	90.0	90.0	90.0
			90.0	90.0	90.0	90.0
36"			90.0			
						
			L			ll
	10 - 1	12" 90.0 90.0 12" 90.0 90.0 18" 90.0 90.0 24" 82.9 82.9 30" 74.3 74.3 36" 68.1 68.1 42" 63.6 63.6 48" 60.3 60.3 12" 90.0 90.0 18" 90.0 90.0 18" 90.0 90.0 30" 90.0 90.0 30" 90.0 90.0 36" 89.4 89.4 42" 86.3 86.3 48" 84.8 84.8 12" 90.0 90.0 18" 78.3 78.3 24" 69.7 69.7 30" 63.5 63.5 36" 58.9 58.9 42" 55.5 55.5 48" 52.9 53.0 12" 90.0 90.0 30" 90.0 90.0 30" 90.0 90.0 30" 90.0 90.0 42" 90.0 90.0 42" 90.0 90.0 42" 90.0 90.0 18" 90.0 90.0 42" 90.0 90.0 18" 90.0 90.0 42" 90.0 90.0 18" 90.0 90.0				
52-1/8"	49-5/8"					l
						<u> </u>
						f
73"						
	!	40	47.0	47.3	00.1	00.0

CHART 'C' DESIGN LOAD CAPACITY - PSF HORIZONTAL MULLION WITH COMBINATION OF SERIES SENTINEL FIXED OVER HORIZ. SLIDING WINDOW

		1 DIED O	VERTICALE: OF		*	
	WINDOW DI	MS	1 ANC	HOR AT	2 ANCI	HORS AT
	WINDOW DI		EACH SIDE (OF MULLION	EACH SIDE	OF MULLION
WINDOW WIDTH	WINDOW HEIGHT	TRANSOM HEIGHT	MULL TUBE 1 X 2-1/2	MULL TUBES 1 X 3 1 X 4	MULL TUBE 1 X 3	MULL TUBE 1 X 4
		12"	90.0	90.0	90.0	90.0
		18"	90.0	90.0	90.0	90.0
		24"	90.0	90.0	90.0	90.0
36"		30"	90.0	90.0	90.0	90.0
		36"	90.0	90.0	90.0	90.0
		42"	90.0	90.0	90.0	90.0
		48"	90.0	90.0	90.0	90.0
		12"	90.0	90.0	90.0	90.0
		18"	82.4	82.4	90.0	90.0
		24"	76.4	76.4	90.0	90.0
52-1/8"	62"	30"	72.2	72.2	90.0	90.0
-		36"	69.3	69.3	90.0	90.0
		42"	67.4	67.4	90.0	90.0
		48"	66.4	66.4	90.0	90.0
		12"	64.2	64.2	85.5	90.0
		18"	57.7	57.7	77.9	90.0
		24"	52.9	52.9	71.6	90.0
73"		30"	49.2	49.2	66.2	85.5
		36"	46.4	46.4	61.6	80.3
		42"	44.3	44.3	57.5	75.7
		48"	42.2	42.7	54.0	71.5





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00 Miami-Dade Product Control

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Rev. 06/03/20 REGISTRATION #29296 MD-SENMUL Py AGK Date

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

1 OR 2 ANCHORS

DWG No. SENTINEL UNCLIPPED MULLION Я Mindows & Doors
Were stronger

DRS AND WINDOWS, INC.

104TH STREET

1, FL 33018 5 NTS LOAD CHARTS SENMUL

A. LYNN MILLER, P.E.

