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)

PGT Industries, LLC
3400 Precision Drive
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 "PGT" Clipped Extruded Aluminum Tube Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. **6300JR**, titled "Impact–Resistant Aluminum Tube Mullions", sheets 1 through 22 of 22, dated 08/29/11, with revision **F** dated 03/19/26, 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 No. 23-0913.05** 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 **Manuel Perez, P.E.**

MIAMI-DADE COUNTY APPROVED

4/15/26

NOA No. 26-0401.06
Expiration Date: May 26, 2031
Approval Date: April 23, 2026

PGT Industries, LLC

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. 10-0819.05)

2. Drawing No. **6300JR**, titled "Impact-Resistant Aluminum Tube Mullions", sheets 1 through 22 of 22, dated 08/29/11, with revision **E** dated 08/28/23, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 23-0913.05)

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
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of clipped aluminum mullions, prepared by Fenestration Testing Lab, Inc., Test Report No. **FTL-6443** (samples A-1 through E-1), dated 02/28/11, and addendum letter dated 05/05/11, both signed and sealed by Marlin D. Brinson, P.E.
(Submitted under NOA No. 10-0819.05)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 6th Edition (2017) and with FBC 7th Edition (2020), dated 04/01/20, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 20-0406.03)

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 to **FBC 7th Edition (2020),** and with **FBC 8th Edition (2023)**, dated 08/23/23, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 23-0913.05)

2. Statement letter of no financial interest, dated 08/23/23, issued by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.
(Submitted under NOA No. 23-0913.05)

Manuel Perez

Manuel Pérez, P.E.
Product Control Examiner
NOA No. 26-0401.06
Expiration Date: May 26, 2031
Approval Date: April 23, 2026

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

G. OTHERS

1. Notice of Acceptance No. **20-0406.03**, issued to PGT Industries, Inc. for their **Series "PGT" Clipped Extruded Aluminum Tube Mullion – L.M.I.**, approved on 08/20/20 and expiring on 05/26/26.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **6300JR**, titled "Impact-Resistant Aluminum Tube Mullions", sheets 1 through 22 of 22, dated 08/29/11, with revision **F** dated 03/19/26, 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 8th Edition (2023)**, dated March 23, 2026, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

2. Statement letter of no financial interest, dated March 23, 2026, prepared by manufacturer, signed and sealed by Anthony Lynn Miller, P.E.

G. OTHERS

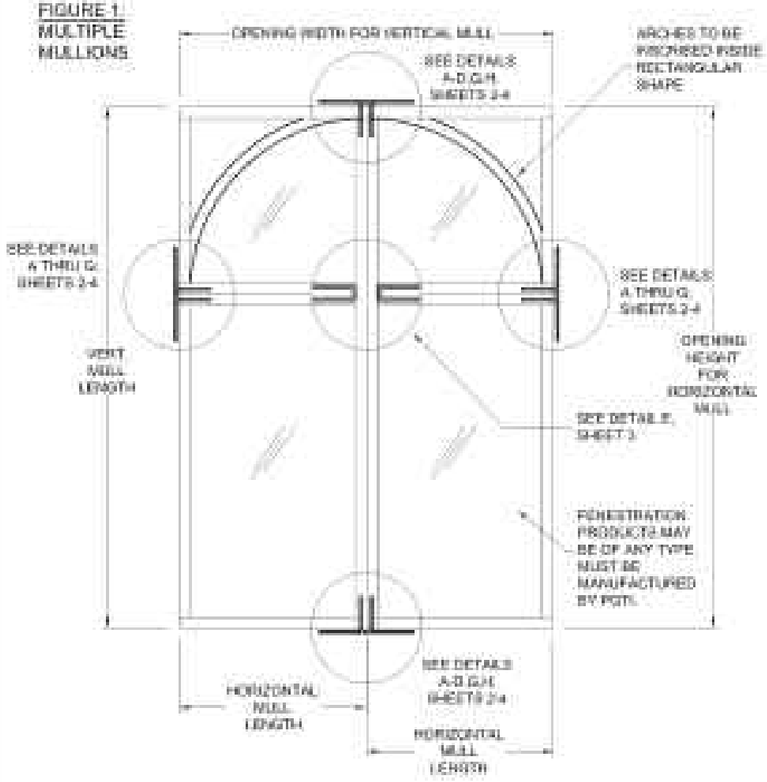
1. Notice of Acceptance No. **23-0913.05**, issued to PGT Industries, Inc. for their **Series "PGT" Clipped Extruded Aluminum Tube Mullion – L.M.I.**, approved on 10/26/23 and expiring on 05/26/26.

Manuel Perez

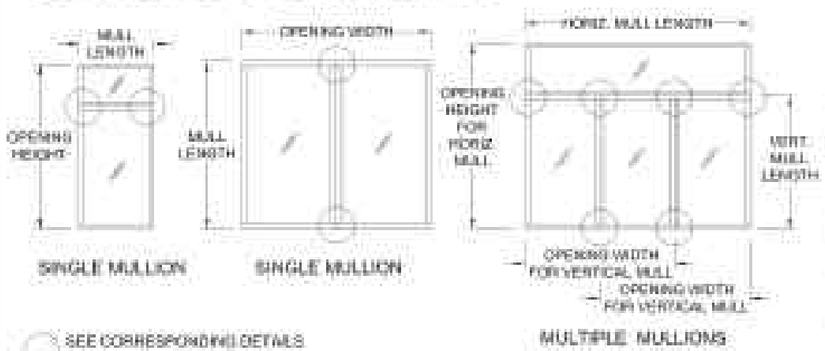
Manuel Perez, P.E.
Product Control Examiner
NOA No. 26-0401.06
Expiration Date: May 26, 2031
Approval Date: April 23, 2026

SUITABLE FOR ALL LOCATIONS REQUIRING NON-IMPACT OR LARGE AND SMALL MISSILE IMPACT-RESISTANT PRODUCTS

FIGURE 1
MULTIPLE MULLIONS



ADDITIONAL EXAMPLES OF MULL CONFIGURATIONS:



SEE CORRESPONDING DETAILS FROM FIGURE 1 ABOVE

CODES / STANDARDS USED:

- 2023 FLORIDA BUILDING CODE (FBC), 8TH EDITION
- ANSI/AF&PA NDS-2018 FOR WOOD CONSTRUCTION
- ALUMINUM DESIGN MANUAL, ADM-2020
- AISI S100-16
- AISC 360-16

GENERAL NOTES:

1) DETAILS SHOWN ARE FOR THE MULLION ONLY. ANCHORS SHOWN ARE IN ADDITION TO ANY ANCHORS REQUIRED FOR THE FENESTRATION PRODUCT INSTALLATION. TYPICAL APPLICATIONS ARE SHOWN. EACH SITUATION IS UNIQUE AND SHOULD BE EVALUATED BY AN EXPERIENCED INSTALLER FOR THE BEST INSTALLATION METHOD. OPTIONAL 1X OR 2X WOOD BUCKS IF USED, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS AND ARE TO BE DESIGNED BY OTHERS.

2) THE TYPE AND NUMBER OF ANCHORS IS CRITICAL TO THE STRUCTURAL PERFORMANCE OF THE MULLED UNITS. MULLIONS HAVE BEEN TESTED AS "FREE-FLOATING" AND DO NOT NEED TO BE DIRECTLY ATTACHED TO THE MULLION CLIPS, BUT SHALL NOT HAVE A GAP OF MORE THAN 1/4" FROM THE CLIP.

3) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. MULLIONS ARE CALCULATED TO DEFLECT NO MORE THAN L/180. THE 1/3 STRESS INCREASE WAS NOT USED IN THIS ANCHOR EVALUATION. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF WOOD SCREWS.

4) PROPER SEALING OF ENTIRE ASSEMBLY IS THE RESPONSIBILITY OF OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) USE THE COMBINED WIDTH OR HEIGHT OF ONLY TWO ADJACENT FENESTRATION PRODUCTS TO DETERMINE PRESSURES AND ANCHORAGE FOR THE COMMON MULLION. SEE EXAMPLES ON THIS SHEET AND SHEET 21. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME WHEN USING THE DESIGN PRESSURE AND ANCHORAGE TABLES. THE LOWEST DESIGN PRESSURE OF MULTIPLE MULLIONS OR FENESTRATION PRODUCTS SHALL APPLY.

6) WHEN FINDING YOUR SIZE IN THE MULLION TABLES, ALWAYS ROUND UP TO THE NEXT SIZE SHOWN ON THE TABLE(S).

7) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE. ANCHORS SHALL BE COATED OR CORROSION RESISTANT AS APPROPRIATE FOR SUBSTRATE MATERIAL. DISSIMILAR MATERIALS SHALL BE PROTECTED AS REQUIRED TO PREVENT REACTIONS.

8) REFERENCE: TEST REPORTS: FTL-6443; DEWALT AGGRE-GATOR & ULTRACON+ NOA'S

9) MULLIONS AND CLIPS HAVE BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, AND ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS. MULLIONS ARE ONLY TO BE USED WITH PGT FENESTRATION PRODUCTS.

10) MULLIONS ARE IN COMPLIANCE FOR USE IN THE HVHZ.

11) QUANTITY OF UNITS WITHIN A MULTIPLE MULLED ASSEMBLY IS UNLIMITED PROVIDED THAT THE SPAN AND OPENING WIDTH/HEIGHT OF EACH INDIVIDUAL MULLION COMPLIES WITH THE REQUIREMENTS OF THIS NOA.

INSTRUCTIONS:

1) DETERMINE THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING USING THE **ASCE-7 STANDARD**.

2) CHOOSE A MULLION TYPE THAT WILL FIT THE DEPTH OF THE FENESTRATION PRODUCT'S FRAME DEPTH.

3) REFER TO SHEET 22 TO DETERMINE IF THE WIND LOADING IS "RECTANGULAR" OR "TRIANGULAR/TRAPEZOIDAL".

4) FIND THE CHOSEN MULLION'S MULLION CAPACITY (LBS/FT²) FROM TABLES 1A THROUGH 13A, ON SHEETS 5 THROUGH 17 RESPECTIVELY, USING THE MULLION TYPE, LENGTH AND OPENING WIDTH OR HEIGHT (DEPENDING IF THE MULLION IS SPANNING VERTICALLY OR HORIZONTALLY). THE MULLION CAPACITY (LBS/FT²) OBTAINED SHALL MEET OR EXCEED THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING OBTAINED IN STEP 1).

5) FROM THE SAME TABLE USED IN STEP 4) ABOVE, FIND THE VALUE IN THE NEXT COLUMN ANCHOR CAPACITY REQUIRED (LBS). THIS VALUE REPRESENTS THE WINDLOAD TRANSFERRED TO THE SUBSTRATE BY THE ANCHORS AND MUST BE MET TO ATTAIN THE FULL MULLION CAPACITY.

6) FROM THE ANCHOR CAPACITY (LBS) TABLE ON THE SAME SHEET AND USING YOUR ACTUAL SUBSTRATE CONDITION (MULTIPLE ANCHOR/SUBSTRATE/ANCHOR-CLIP PATTERN MAY APPLY) SELECT AN ANCHOR CLIP PATTERN AND VERIFY THAT THE REQUIRED ANCHOR CAPACITY IS MET.

7) IF THE MULLION CAPACITY (LBS/FT²) OBTAINED IN THE TABLE IS HIGHER THAN THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING, YOU MAY USE THE **"ANCHOR CAPACITY ADJUSTMENT FORMULA"** TO OBTAIN THE LOWER ANCHOR CAPACITY REQUIRED. WITH THIS VALUE A LOWER ANCHOR CAPACITY OPTION MAY BE SELECTED FOR THE SAME SUBSTRATE.

8) VERIFY THE DESIGN PRESSURE RATING (LBS/FT²) FOR THE FENESTRATION PRODUCT TO BE USED AND COMPARE WITH THE FINAL MULLION CAPACITY (LBS/FT²) OBTAINED FOR THE MULLION SYSTEM. THE LOWER OF THE TWO SHALL APPLY FOR THE ENTIRE MULLED FENESTRATION PRODUCT ASSEMBLY.

9) HIGHLIGHT OPTION USED AND TABLE VALUES USED IN A SPECIFIC APPLICATION WHEN USING THIS NOA TO APPLY FOR A PERMIT.

GENERAL NOTES	1
INSTRUCTIONS	1
ELEVATIONS	1
MULL TO 2X WOOD	2
MULL TO 1X & MASONRY	2
INSTALLATION NOTES	2
MULL TO MASONRY	3
MULL TO STEEL STUD	3
MULL TO MULL	3
ALTERNATATE CLIPS	4
BAY MULL INSTALLATION	4
1 X 2.75 X .375 MULL SPECS	5
1 X 2.75 X .45 MULL SPECS	6
1 X 3.125 X .500 MULL SPECS	7
1 X 4 X .125 MULL SPECS	8
1 X 4 X .375 TUBE MULL SPECS	8
1 X 4 X .375 "T" MULL SPECS	9
1.25 X 3.188 X .265 MULL SPECS	10
1.25 X 3.25 X .100 MULL SPECS	11
1.25 X 3.25 X .024 MULL SPECS	12
1.25 X 3.94 X .024 MULL SPECS	13
2 X 4 X .25 MULL SPECS	14
2 X 6 X .25 MULL SPECS	15
30° X 3.25 BAY MULL SPECS	16
45° X 3.25 BAY MULL SPECS	17
MULLION & CLIP DIMENSIONS	18-20
EXAMPLES 1 & 2	21
LOADING EXAMPLES	22

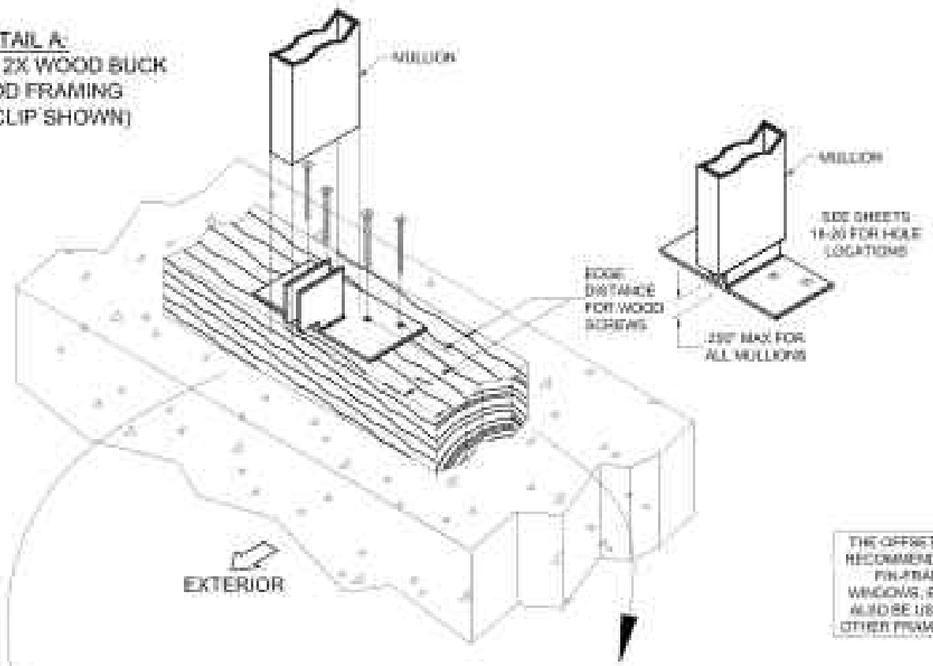
PGT
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3800 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #2038

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Drawing Title: GENERAL NOTES AND ELEVATION
Scale: N/A
Drawing No.: 6300JR
Sheet: 1 OF 22
Date: 08/29/11
Checked By: J.ROSOWSKI
Date:
Rev: F
Date: 03/19/26
Drawn By: A.MORLESIN
Revision: REMOVE FBC 2020

PRODUCT REVISED
As complying with the Florida Building Code
NOA No. 25-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

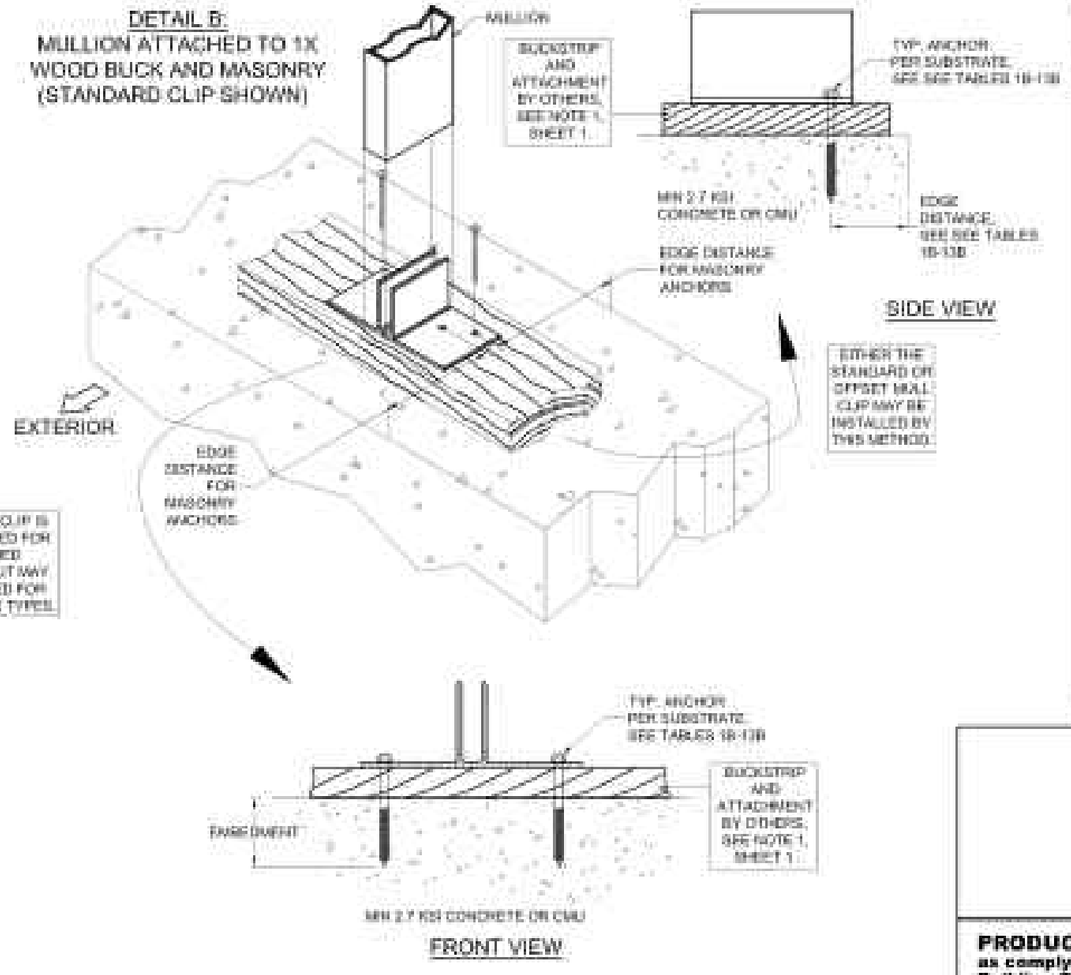
ANTHONY LYNN MILLER
LICENSE
No. 58705
05/31/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

DETAIL A:
MULLION TO 2X WOOD BUCK OR WOOD FRAMING (OFFSET CLIP SHOWN)



THE OFFSET CLIP IS RECOMMENDED FOR PIN FRAMED WINDOWS, BUT MAY ALSO BE USED FOR OTHER FRAME TYPES.

DETAIL B:
MULLION ATTACHED TO 1X WOOD BUCK AND MASONRY (STANDARD CLIP SHOWN)



INSTALLATION NOTES:

1) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

2) QUANTITY OF ANCHORS AND MULLION SIZE SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. BECAUSE THE ANCHOR CAPACITY IS BASED PARTLY ON THE ANCHOR TO ANCHOR DISTANCE, THE CORRECT QUANTITY AND LOCATION OF ANCHORS MUST BE FOLLOWED. REFER TO THE TABLES ON THE FOLLOWING SHEETS. FOR DETAILS A-D, EITHER THE STANDARD OR OFFSET CLIP MAY BE USED.

3) ANCHOR HEAD TYPE MAY BE PANHEAD, HEXHEAD OR FLATHEAD.

4) WOOD BUCKS ARE OPTIONAL. SEE DETAIL C, SHEET 3.

5) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED DEWALT ULTRACON, DEWALT ULTRACON+ OR DEWALT 1/4" S.S. AGGRESATOR MASONRY ANCHORS.

MATERIAL PROPERTIES

Material	F_{tu}	F_{su}
Steel Screw	92 ksi	130 ksi
T8-8 Screw	60 ksi	95 ksi
#10 Screw	90 ksi	110 ksi
DeWalt Titen Anchor Concrete	97 ksi	96 ksi
Simpson UltraCon®	160 ksi	177 ksi
3/16" DeWalt UltraCon+®	117 ksi	104 ksi
1/4" DeWalt UltraCon+®	148 ksi	104 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	58 ksi	58 ksi
Gr. 33 Sheet Steel	33 ksi	33 ksi

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IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
INSTALLATION INSTRUCTIONS A

Drawing No.	Sheet	Rev.
6300.IR	2 OF 22	F

Scale	Checked By:	Date:
N/A		

Drawn By:	Date:	Revised:
J ROSOWSKI	08/29/11	03/19/26

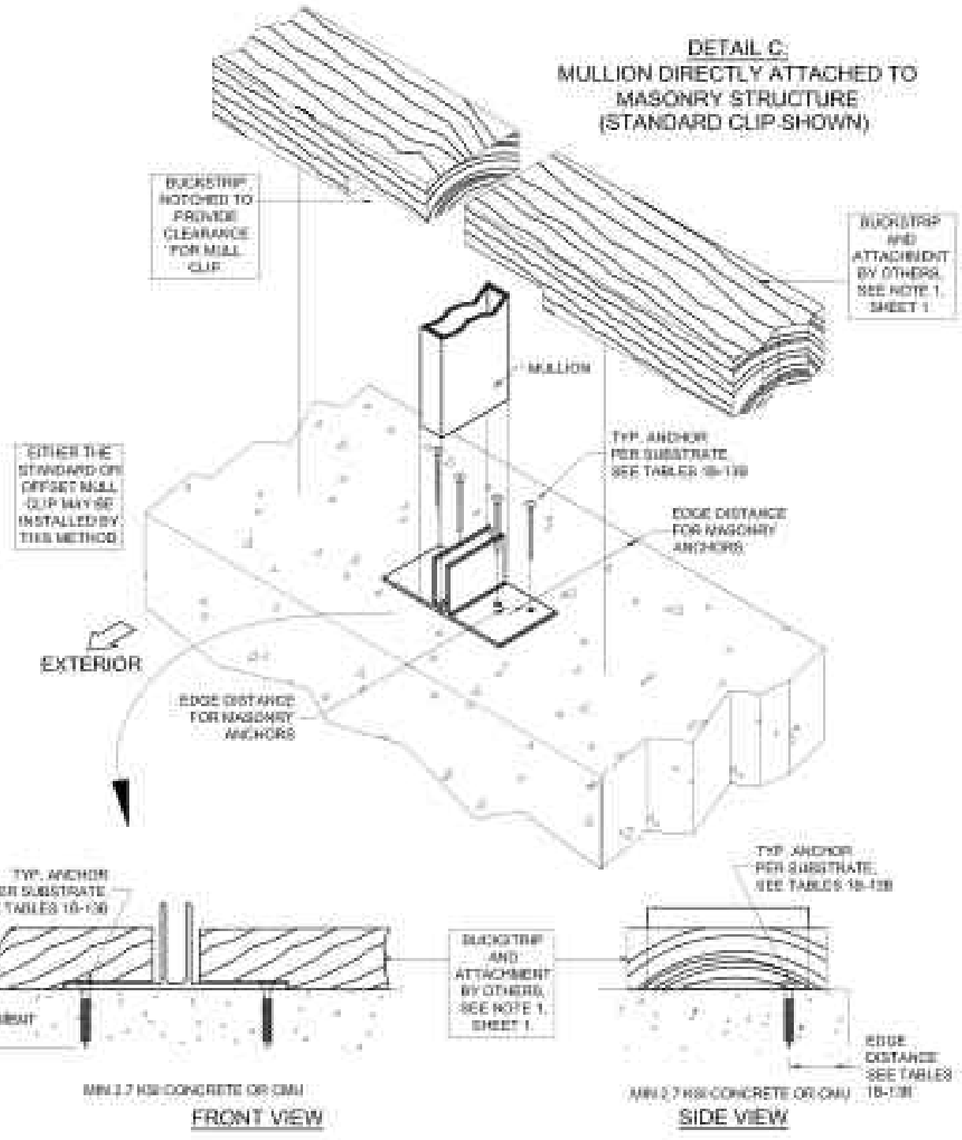
File:	Engineer:
	A MORLESIN

NO CHANGES THIS SHEET

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 26-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

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

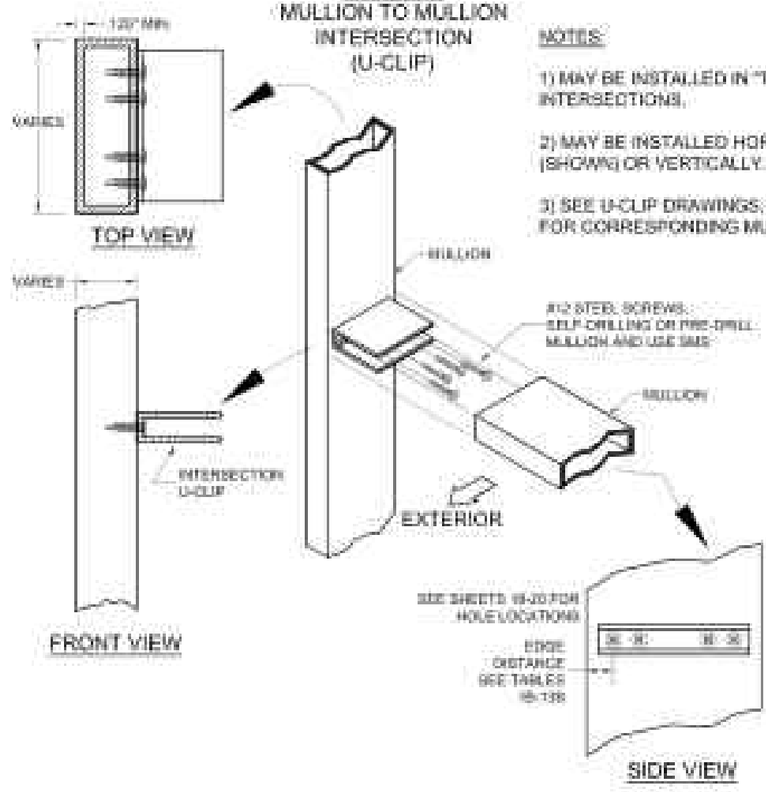
DETAIL C:
MULLION DIRECTLY ATTACHED TO MASONRY STRUCTURE
(STANDARD CLIP SHOWN)



FRONT VIEW

SIDE VIEW

DETAIL E:
MULLION TO MULLION INTERSECTION
(U-CLIP)



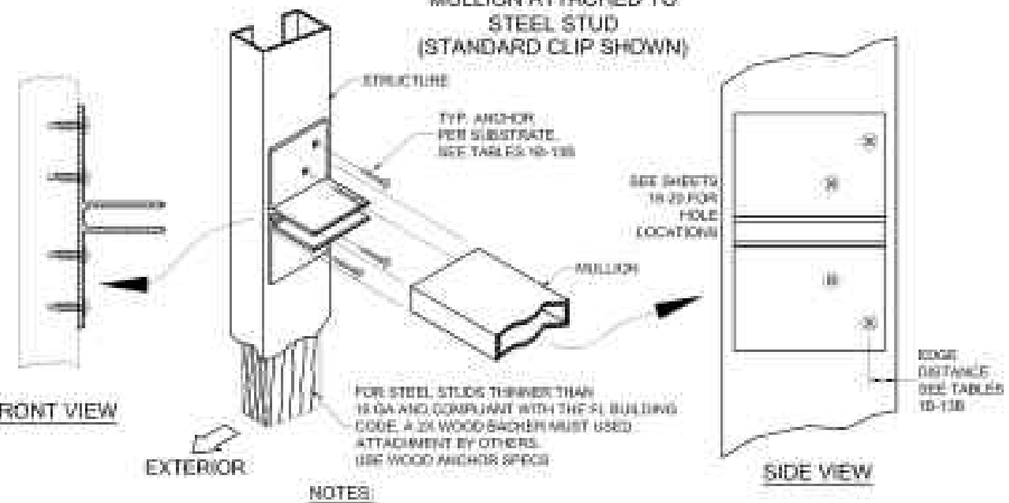
NOTES:

1) MAY BE INSTALLED IN "TEE" OR "CROSS" INTERSECTIONS.

2) MAY BE INSTALLED HORIZONTALLY (SHOWN) OR VERTICALLY.

3) SEE U-CLIP DRAWINGS, SHEETS 18-20 FOR CORRESPONDING MULLION.

DETAIL D:
MULLION ATTACHED TO STEEL STUD
(STANDARD CLIP SHOWN)



NOTES:

1) FOR 2X WOOD-BACKED STEEL STUDS, WOOD ANCHOR VALUES MAY BE USED.

2) SEE CORRESPONDING MULLION TABLES, SHEETS 5-20, FOR QUANTITY OF SCREWS.

INSTALLATION NOTES:

1) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

2) QUANTITY OF ANCHORS AND MULLION SIZE SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. BECAUSE THE ANCHOR CAPACITY IS BASED PARTLY ON THE ANCHOR TO ANCHOR DISTANCE, THE CORRECT QUANTITY AND LOCATION OF ANCHORS MUST BE FOLLOWED. REFER TO THE TABLES ON THE FOLLOWING SHEETS. FOR DETAILS A-D, EITHER THE STANDARD OR OFFSET CLIP MAY BE USED.

3) ANCHOR HEAD TYPE MAY BE PANHEAD, HEXHEAD OR FLATHEAD.

4) WOOD BUCKS ARE OPTIONAL. SEE DETAIL C, SHEET 3.

5) FOR MASONRY APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED DEWALT ULTRACON, DEWALT ULTRACON+ OR DEWALT 1/4" S.S. AGGREGATOR MASONRY ANCHORS.

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IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
INSTALLATION INSTRUCTIONS B

Scale	Drawing No.	Sheet
N/A	6300JR	3 OF 22

Drawn By	Date	Checked By	Date	Rev
J ROSOWSKI	08/29/11	A MORLESIN	03/19/26	F

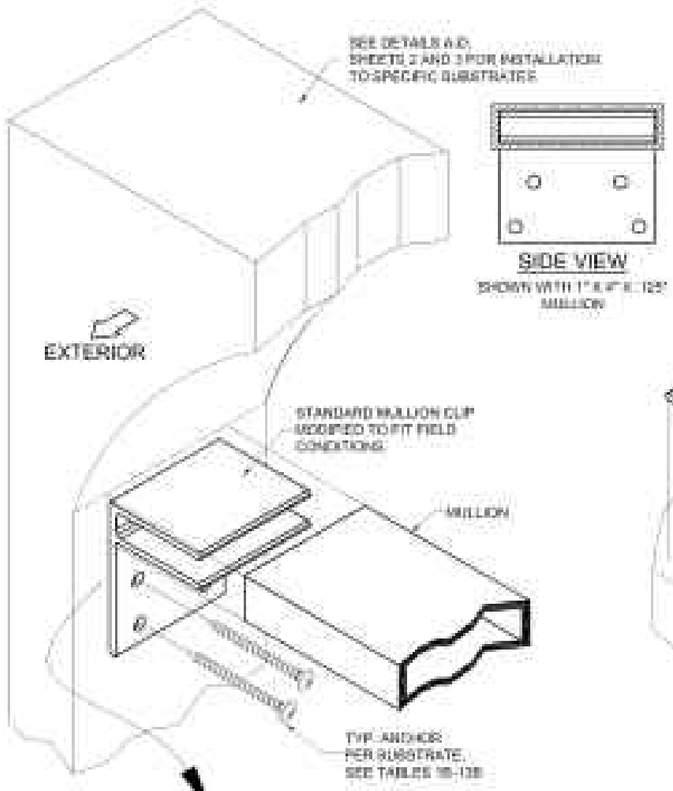
REVISED TO FOR NOA #26-0401.06

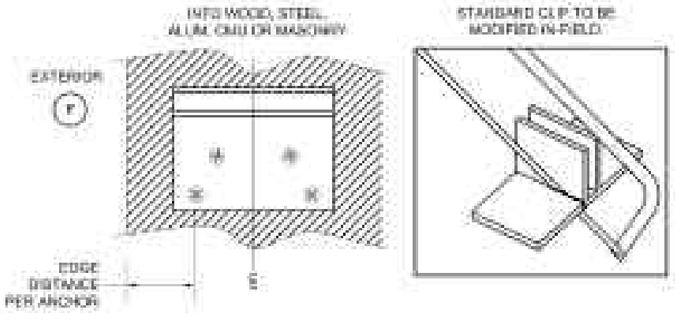
NO CHANGES THIS SHEET

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 26-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

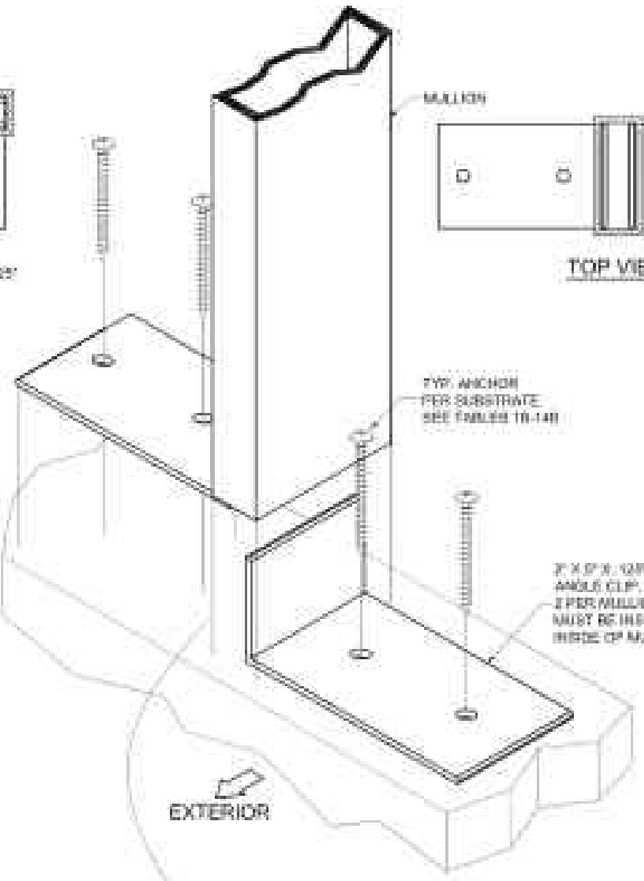
ANTHONY LYNN MILLER
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05/31/25
A LYNN MILLER, P.E.
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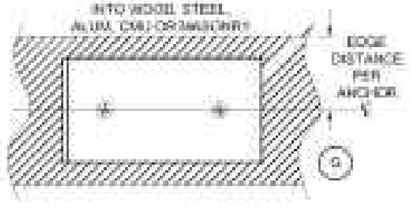
DETAIL F:
FIELD-MODIFIED MULLION CLIP
(F-CLIP)



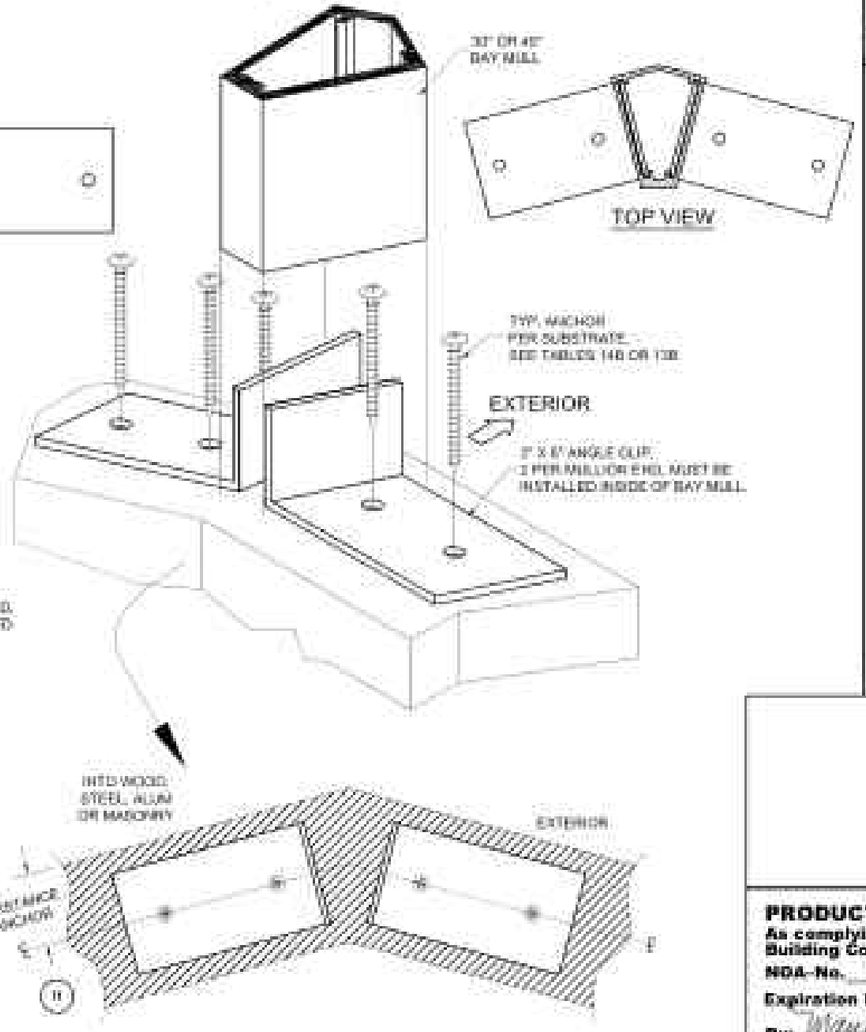


DETAIL G:
ANGLE MULLION CLIP
(ANGLE CLIP)





DETAIL H:
BAY MULLION INSTALLATION
(ANGLE CLIP)



NOTES FOR INSTALLATION OPTIONS F:

1) DETAIL IS NOT APPLICABLE FOR THE BAY MULLION.

2) SEE TABLES 1B-13B FOR ANCHOR QUANTITIES AND SHEETS 18-20 FOR HOLE LOCATIONS.

3) THE 2X5 CLIP IS NOT SUITABLE FOR THIS APPLICATION.

NOTES FOR INSTALLATION OPTION G & H:

1) USE 2 ANGLE CLIPS PER MULLION END. CLIPS MUST BE INSERTED INSIDE OF MULLION.

2) DETAIL G: SEE TABLES 1B-13B FOR ANCHOR QUANTITIES AND SHEETS 18-20 FOR HOLE LOCATIONS.

3) DETAIL H: SEE TABLES 12B OR 13B FOR ANCHOR QUANTITIES AND SHEET 18 FOR HOLE LOCATIONS.

PGT Custom Windows and Doors
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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
INSTALLATION INSTRUCTIONS C

Scale	Drawing No.	Sheet
N/A	6300JR	4 OF 22

Drawn By	Date	Checked By	Date	Rev
J ROSOWSKI	08/29/11			F

Approved By	Date	Revisions
A MORLESIN	03/19/26	NO CHANGES THIS SHEET

PRODUCT REVISED
As complying with the Florida Building Code
NOA No. 25-0401.06
Expiration Date: 05/26/2031
By: Manuel Feria
Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/27/25
A LYNN MILLER, P.E.
P.E.# 58705

TABLE 1A

Maximum Capacity Table (lbs/ft²)

1 x 2.75 x .375 Alum. Tube Mullion

Opening Width (for vertically spanning mullions) or **Opening Height** (for horizontally spanning mullions)

Mull Length	30 in		36 in		42 in		48 in		54 in		60 in		66 in		72 in		78 in		84 in		90 in		96 in	
	Reinforced Loading	Unreinforced Loading	Reinforced Loading	Unreinforced Loading	Reinforced Loading	Unreinforced Loading	Reinforced Loading	Unreinforced Loading	Reinforced Loading	Unreinforced Loading	Reinforced Loading	Unreinforced Loading	Reinforced Loading	Unreinforced Loading	Reinforced Loading	Unreinforced Loading	Reinforced Loading	Unreinforced Loading	Reinforced Loading	Unreinforced Loading	Reinforced Loading	Unreinforced Loading	Reinforced Loading	Unreinforced Loading
42 in	175.0	127.1	175.0	127.1	175.0	127.1	175.0	127.1	175.0	127.1	175.0	127.1	175.0	127.1	175.0	127.1	175.0	127.1	175.0	127.1	175.0	127.1	175.0	127.1
48 in	175.0	108.4	175.0	108.4	175.0	108.4	175.0	108.4	175.0	108.4	175.0	108.4	175.0	108.4	175.0	108.4	175.0	108.4	175.0	108.4	175.0	108.4	175.0	108.4
53.625 in	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7
54 in	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7	175.0	96.7
60 in	175.0	87.1	175.0	87.1	175.0	87.1	175.0	87.1	175.0	87.1	175.0	87.1	175.0	87.1	175.0	87.1	175.0	87.1	175.0	87.1	175.0	87.1	175.0	87.1
66 in	175.0	79.2	175.0	79.2	175.0	79.2	175.0	79.2	175.0	79.2	175.0	79.2	175.0	79.2	175.0	79.2	175.0	79.2	175.0	79.2	175.0	79.2	175.0	79.2
72 in	175.0	72.6	175.0	72.6	175.0	72.6	175.0	72.6	175.0	72.6	175.0	72.6	175.0	72.6	175.0	72.6	175.0	72.6	175.0	72.6	175.0	72.6	175.0	72.6
78 in	175.0	67.0	175.0	67.0	175.0	67.0	175.0	67.0	175.0	67.0	175.0	67.0	175.0	67.0	175.0	67.0	175.0	67.0	175.0	67.0	175.0	67.0	175.0	67.0
84 in	175.0	62.2	175.0	62.2	175.0	62.2	175.0	62.2	175.0	62.2	175.0	62.2	175.0	62.2	175.0	62.2	175.0	62.2	175.0	62.2	175.0	62.2	175.0	62.2
90 in	175.0	58.0	175.0	58.0	175.0	58.0	175.0	58.0	175.0	58.0	175.0	58.0	175.0	58.0	175.0	58.0	175.0	58.0	175.0	58.0	175.0	58.0	175.0	58.0
96 in	175.0	54.4	175.0	54.4	175.0	54.4	175.0	54.4	175.0	54.4	175.0	54.4	175.0	54.4	175.0	54.4	175.0	54.4	175.0	54.4	175.0	54.4	175.0	54.4
102 in	175.0	51.3	175.0	51.3	175.0	51.3	175.0	51.3	175.0	51.3	175.0	51.3	175.0	51.3	175.0	51.3	175.0	51.3	175.0	51.3	175.0	51.3	175.0	51.3
108 in	175.0	48.4	175.0	48.4	175.0	48.4	175.0	48.4	175.0	48.4	175.0	48.4	175.0	48.4	175.0	48.4	175.0	48.4	175.0	48.4	175.0	48.4	175.0	48.4
114 in	175.0	46.0	175.0	46.0	175.0	46.0	175.0	46.0	175.0	46.0	175.0	46.0	175.0	46.0	175.0	46.0	175.0	46.0	175.0	46.0	175.0	46.0	175.0	46.0
120 in	175.0	43.8	175.0	43.8	175.0	43.8	175.0	43.8	175.0	43.8	175.0	43.8	175.0	43.8	175.0	43.8	175.0	43.8	175.0	43.8	175.0	43.8	175.0	43.8

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{__}) \times \left(\frac{\text{ANCHOR CAP}_{__}}{\text{MULLION CAP}_{__}}\right) = \text{ANCHOR CAP}_{__}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 1B

Anchor Capacity (lbs)	Installation	# Crosses		Edge Dist.	Spacing = Edge Dist.					Panel (Min)	Wood		Steel
	Anchor Type	1/16" Deflect. (Reinforced)	1/4" Deflect. (Unreinforced)	5/16" Deflect. (Unreinforced)	#7 Screws (Unreinforced)	1/4" Screws (Unreinforced)	5/16" Screws (Unreinforced)	1/4" SDS (Unreinforced Aggregate)	5/16" Deflect. (Unreinforced)	7/8" Tab Deflect. (Aggregate)	#7 Screw (Min. Reinforced)	#8 Screw (Min. Unreinforced)	#10 Screw (Min. Unreinforced)
	Edge Distance (in)	1"	3-1/2"	4"	1"	3-1/2"	3"	2-1/2"	4"	5/8"	1"	1"	1"
	Embedment (in)	1-3/4"	1-3/4"	1-1/2"	1-3/4"	1-3/4"	1-1/2"	1-1/2"	1-1/2"	1-1/4"	1"	1-3/8"	1-3/8"
2 Anchors @ 4.00" Min. O.C. - Minimum or Offset Clip (Fig. 1)		220 lbs	220 lbs	220 lbs	N/A	220 lbs	220 lbs	220 lbs	220 lbs	220 lbs	N/A	220 lbs	220 lbs
2 Anchors @ 4.00" Min. O.C. - Standard or Offset Clip (Fig. 2)		220 lbs	220 lbs	220 lbs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Anchors @ 4.00" Min. O.C. - 2/3 and 3/4 Side Clip (Fig. 3)		440 lbs	440 lbs	440 lbs	440 lbs	440 lbs	440 lbs	440 lbs	440 lbs	440 lbs	440 lbs	440 lbs	440 lbs
3 Anchors @ 4.00" Min. O.C. - 1/2 Side Clip (Fig. 4)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 Anchor @ 1.75" Min. O.C. - Mullion Clip (Fig. 5)		220 lbs	220 lbs	220 lbs	220 lbs	220 lbs	220 lbs	220 lbs	220 lbs	220 lbs	220 lbs	220 lbs	220 lbs
2 Anchors @ 1.75" Min. O.C. - Mullion Clip (Fig. 6)		440 lbs	440 lbs	440 lbs	N/A	440 lbs	440 lbs	440 lbs	440 lbs	440 lbs	440 lbs	440 lbs	440 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

CIRCLED VALUES ARE USED IN THE EXAMPLE ON SHEET 21.

FIGURE 1:

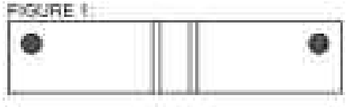
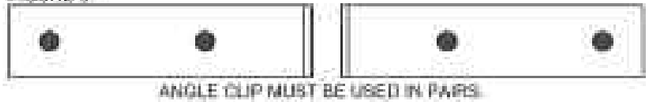


FIGURE 2:



FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:



FIGURE 5:



FIGURE 6:



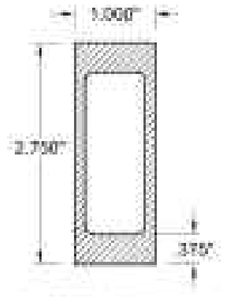
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL HAVE A MIN. SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .120" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



1" X 2.75" X .375" MULLION

DCI
Custom Windows and Doors
3410 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600
www.dciwindows.com

IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

1 X 2.75 X .375 MULL SPECS

Drawn By: J.ROSOWSKI | Date: 08/29/11 | Drawing No.: N/A | Scale: N/A | Sheet: 5 OF 22 | Project No.: 6300JR | Rev.: F

Approved By: A.MORLESIN | Date: 03/19/26 | Description: REVISED ANCHOR TABLE

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 26-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
05/31/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 2A

Mullion Capacity Table (lbs/ft²)

1 x 2.75 x .650 Alum. Tube Mullion

Opening Width (for vertically spanning mullions) or **Opening Height** (for horizontally spanning mullions)

Mull Length	40 in		48 in		56 in		64 in		72 in		80 in		88 in		96 in		104 in		112 in		120 in		128 in		136 in		144 in	
	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable	Reinforced Ultimate	Reinforced Allowable
40 in	176.0	42.0	176.0	42.0	170.0	34.0	170.0	34.0	170.0	34.0	170.0	34.0	170.0	34.0	170.0	34.0	170.0	34.0	170.0	34.0	170.0	34.0	170.0	34.0	170.0	34.0	170.0	34.0
48 in	176.0	36.8	176.0	36.8	170.0	29.8	170.0	29.8	170.0	29.8	170.0	29.8	170.0	29.8	170.0	29.8	170.0	29.8	170.0	29.8	170.0	29.8	170.0	29.8	170.0	29.8	170.0	29.8
55.625 in	176.0	32.1	176.0	32.1	170.0	26.0	170.0	26.0	170.0	26.0	170.0	26.0	170.0	26.0	170.0	26.0	170.0	26.0	170.0	26.0	170.0	26.0	170.0	26.0	170.0	26.0	170.0	26.0
64 in	176.0	28.7	176.0	28.7	170.0	23.2	170.0	23.2	170.0	23.2	170.0	23.2	170.0	23.2	170.0	23.2	170.0	23.2	170.0	23.2	170.0	23.2	170.0	23.2	170.0	23.2	170.0	23.2
72 in	176.0	25.6	176.0	25.6	170.0	20.7	170.0	20.7	170.0	20.7	170.0	20.7	170.0	20.7	170.0	20.7	170.0	20.7	170.0	20.7	170.0	20.7	170.0	20.7	170.0	20.7	170.0	20.7
80 in	176.0	23.1	176.0	23.1	170.0	18.7	170.0	18.7	170.0	18.7	170.0	18.7	170.0	18.7	170.0	18.7	170.0	18.7	170.0	18.7	170.0	18.7	170.0	18.7	170.0	18.7	170.0	18.7
88 in	176.0	21.0	176.0	21.0	170.0	17.0	170.0	17.0	170.0	17.0	170.0	17.0	170.0	17.0	170.0	17.0	170.0	17.0	170.0	17.0	170.0	17.0	170.0	17.0	170.0	17.0	170.0	17.0
96 in	176.0	19.2	176.0	19.2	170.0	15.5	170.0	15.5	170.0	15.5	170.0	15.5	170.0	15.5	170.0	15.5	170.0	15.5	170.0	15.5	170.0	15.5	170.0	15.5	170.0	15.5	170.0	15.5
104 in	176.0	17.7	176.0	17.7	170.0	14.3	170.0	14.3	170.0	14.3	170.0	14.3	170.0	14.3	170.0	14.3	170.0	14.3	170.0	14.3	170.0	14.3	170.0	14.3	170.0	14.3	170.0	14.3
112 in	176.0	16.4	176.0	16.4	170.0	13.3	170.0	13.3	170.0	13.3	170.0	13.3	170.0	13.3	170.0	13.3	170.0	13.3	170.0	13.3	170.0	13.3	170.0	13.3	170.0	13.3	170.0	13.3
120 in	176.0	15.3	176.0	15.3	170.0	12.4	170.0	12.4	170.0	12.4	170.0	12.4	170.0	12.4	170.0	12.4	170.0	12.4	170.0	12.4	170.0	12.4	170.0	12.4	170.0	12.4	170.0	12.4
128 in	176.0	14.3	176.0	14.3	170.0	11.6	170.0	11.6	170.0	11.6	170.0	11.6	170.0	11.6	170.0	11.6	170.0	11.6	170.0	11.6	170.0	11.6	170.0	11.6	170.0	11.6	170.0	11.6
136 in	176.0	13.5	176.0	13.5	170.0	11.0	170.0	11.0	170.0	11.0	170.0	11.0	170.0	11.0	170.0	11.0	170.0	11.0	170.0	11.0	170.0	11.0	170.0	11.0	170.0	11.0	170.0	11.0
144 in	176.0	12.8	176.0	12.8	170.0	10.4	170.0	10.4	170.0	10.4	170.0	10.4	170.0	10.4	170.0	10.4	170.0	10.4	170.0	10.4	170.0	10.4	170.0	10.4	170.0	10.4	170.0	10.4

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req'd}) \times \left(\frac{\text{ANCHOR CAP}_{\text{allow}}}{\text{MULLION CAP}_{\text{allow}}}\right) = \text{ANCHOR CAP}_{req'd}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 2B

| Anchor Capacity (lbs) | Anchor Type | Wood: Direct Screw (Minimum Embedment) | Wood: Direct Screw (Minimum Embedment) | Wood: Direct Screw (Minimum Embedment) | Wood: Direct Screw (Minimum Embedment) | Wood: Wood Screw Anchor (Minimum Embedment) | Masonry: Wedge Anchor (Minimum Embedment) | Masonry: Wedge Anchor (Minimum Embedment) | Masonry: Wedge

TABLE 3A

Mullion Capacity Table (psf)[1]

Opening Width (for vertically spanning mullions) or **Opening Height** (for horizontally spanning mullions)

1" x 3.125" x .5" Alum Tube (Mull)	Mull Length	40 in		60 in				75 in				90 in				105 in				120 in				135 in				150 in				165 in				180 in			
		Rectangular Loading		Triangular Loading				Rectangular Loading		Triangular Loading		Rectangular Loading		Triangular Loading		Rectangular Loading		Triangular Loading		Rectangular Loading		Triangular Loading		Rectangular Loading		Triangular Loading		Rectangular Loading		Triangular Loading		Rectangular Loading		Triangular Loading		Rectangular Loading		Triangular Loading	
		Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)
	40 in	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422	175.0	422
	48 in	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338	175.0	338
	60 in	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270	175.0	270
	64 in	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257	175.0	257
	72 in	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225	175.0	225
	80 in	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203	175.0	203
	84 in	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193	175.0	193
	96 in	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169	175.0	169
	108 in	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150	175.0	150
	120 in	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135	175.0	135

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req} \text{ or } LX) \left(\frac{\text{ANCHOR CAP}_{req}}{\text{MULLION CAP}_{req}} \right) = \text{ANCHOR CAP}_{req}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 3B

Anchor Capacity (lbs)	Anchor Type	In Concrete				Into Steel	Hollow or Filled CMU					Wood		Metal
		1/4" Dia. Wedge (Titen HD®)		1/4" Dia. Screw (Titen®)		3/16" Dia. Pin (Titen®)	3/16" Dia. Wedge (Titen®)		1/4" Dia. Wedge (Titen®)		3/16" Dia. Pin (Titen®)	5/16" Dia. Wedge (Titen®)	1/4" Dia. Lag Screw (Titen®)	#10 Screw (Titen®)	#12 Screw (Titen®)	#14 Screw (Titen®)
	Edge Distance (in.)	1"	3-1/8"	1"	3-1/2"	3-1/2"	1"	3-1/2"	1"	4-1/2"	3"	4-1/2"	3"	2-3/4"	2-3/4"	2-3/4"
	Embedment (in.)	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-3/4"	1-3/4"	2"	1-1/2"	2"	1-3/4"	1-3/4"	varies
2 Anchors @ 4" O.C. (Fig. 1)		350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs
2 Anchors @ 1.25" O.C. / 2 Anchors @ Offset Clip (Fig. 2)		350 lbs	1,050 lbs	350 lbs	N/A	N/A	N/A	350 lbs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Anchors @ 3" O.C. (2 Angle Clips) (Fig. 3)		700 lbs	1,050 lbs	700 lbs	1,050 lbs	1,050 lbs	700 lbs	1,050 lbs	700 lbs	1,050 lbs	1,050 lbs	1,050 lbs	1,050 lbs	700 lbs	700 lbs	1,050 lbs
3 Anchors @ 6.45" O.C. (Jacky, etc.) (Fig. 4)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 Anchor (Fig. 5)		175 lbs	350 lbs	175 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs	350 lbs
1 Anchor @ 1.18" O.C. (2 Clips) (Fig. 6)		350 lbs	1,050 lbs	350 lbs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1:

FIGURE 2:

FIGURE 3:

ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

FIGURE 5:

FIGURE 6:

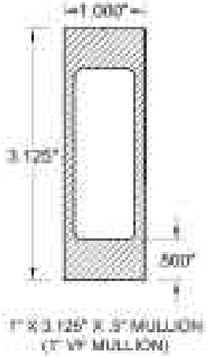
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1" X 3.125" X .5" MULLION
(1" W MULLION)

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1 X 3.125 X .5 MULL SPECS

Drawn By: J ROSOWSKI | Date: 08/29/11 | Scale: N/A | Drawing No.: 6300JR | Sheet: 7 OF 22
Approved By: A MORLESIN | Date: 03/19/26 | Revision: REVISED ANCHOR TABLE | Date: | Rev: F

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 26-0401.06
Expiration Date: 05/26/2031
By: Manuela Tome
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
05/21/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A LYNN MILLER, P.E.
P.E.# 58705

TABLE 4A

Maximum Capacity Table (lbs/ft²)

Opening Width (for vertically spanning mullions) or **Opening Height** (for horizontally spanning mullions)

Tube Size / Mullion Configuration		2"		2.5"		3"		3.5"		4"		4.5"		5"		6"		7"		8"		10"	
		Rectangular Loading		Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading	Rectangular Loading	Triangular Loading
		Mullion Capacity (PSF)	Anchor Capacity Required (lbs)	Mullion Capacity (PSF)	Anchor Capacity Required (lbs)	Mullion Capacity (PSF)	Anchor Capacity Required (lbs)	Mullion Capacity (PSF)	Anchor Capacity Required (lbs)	Mullion Capacity (PSF)	Anchor Capacity Required (lbs)	Mullion Capacity (PSF)	Anchor Capacity Required (lbs)	Mullion Capacity (PSF)	Anchor Capacity Required (lbs)	Mullion Capacity (PSF)	Anchor Capacity Required (lbs)	Mullion Capacity (PSF)	Anchor Capacity Required (lbs)	Mullion Capacity (PSF)	Anchor Capacity Required (lbs)	Mullion Capacity (PSF)	Anchor Capacity Required (lbs)
Roll Length	42 in	170.0	620	170.0	620	170.0	844	170.0	844	170.0	1134	170.0	1134	170.0	1134	170.0	1134	170.0	1134	170.0	1485	170.0	1485
	48 in	170.0	708	170.0	708	170.0	964	170.0	964	170.0	1296	170.0	1296	170.0	1296	170.0	1296	170.0	1296	170.0	1697	170.0	1697
	50.625 in	170.0	747	170.0	747	170.0	1017	170.0	1017	170.0	1367	170.0	1367	170.0	1367	170.0	1367	170.0	1367	170.0	1790	170.0	1790
	54 in	170.0	797	170.0	797	170.0	1085	170.0	1085	170.0	1458	170.0	1458	170.0	1458	170.0	1458	170.0	1458	170.0	1910	170.0	1910
	60 in	170.0	886	170.0	886	170.0	1206	170.0	1206	170.0	1620	170.0	1620	170.0	1620	170.0	1620	170.0	1620	170.0	2122	170.0	2122
	63 in	170.0	930	170.0	930	170.0	1266	170.0	1266	170.0	1701	170.0	1701	170.0	1701	170.0	1701	170.0	1701	170.0	2228	170.0	2228
	66 in	170.0	974	170.0	974	170.0	1326	170.0	1326	170.0	1782	170.0	1782	170.0	1782	170.0	1782	170.0	1782	170.0	2334	170.0	2334
	72 in	170.0	1063	170.0	1063	170.0	1447	170.0	1447	170.0	1944	170.0	1944	170.0	1944	170.0	1944	170.0	1944	170.0	2546	170.0	2546
	78 in	170.0	1152	170.0	1152	170.0	1567	170.0	1567	170.0	2106	170.0	2106	170.0	2106	170.0	2106	170.0	2106	170.0	2758	170.0	2758
	84 in	170.0	1241	170.0	1241	170.0	1688	170.0	1688	170.0	2268	170.0	2268	170.0	2268	170.0	2268	170.0	2268	170.0	2970	170.0	2970
	90 in	170.0	1330	170.0	1330	170.0	1809	170.0	1809	170.0	2430	170.0	2430	170.0	2430	170.0	2430	170.0	2430	170.0	3182	170.0	3182
	96 in	170.0	1419	170.0	1419	170.0	1930	170.0	1930	170.0	2592	170.0	2592	170.0	2592	170.0	2592	170.0	2592	170.0	3394	170.0	3394
	102 in	170.0	1508	170.0	1508	170.0	2051	170.0	2051	170.0	2754	170.0	2754	170.0	2754	170.0	2754	170.0	2754	170.0	3606	170.0	3606
	108 in	170.0	1597	170.0	1597	170.0	2172	170.0	2172	170.0	2916	170.0	2916	170.0	2916	170.0	2916	170.0	2916	170.0	3818	170.0	3818
	114 in	170.0	1686	170.0	1686	170.0	2293	170.0	2293	170.0	3078	170.0	3078	170.0	3078	170.0	3078	170.0	3078	170.0	4030	170.0	4030
	120 in	170.0	1775	170.0	1775	170.0	2414	170.0	2414	170.0	3240	170.0	3240	170.0	3240	170.0	3240	170.0	3240	170.0	4242	170.0	4242
	126 in	170.0	1864	170.0	1864	170.0	2535	170.0	2535	170.0	3402	170.0	3402	170.0	3402	170.0	3402	170.0	3402	170.0	4454	170.0	4454
	132 in	170.0	1953	170.0	1953	170.0	2656	170.0	2656	170.0	3564	170.0	3564	170.0	3564	170.0	3564	170.0	3564	170.0	4666	170.0	4666
	138 in	170.0	2042	170.0	2042	170.0	2777	170.0	2777	170.0	3726	170.0	3726	170.0	3726	170.0	3726	170.0	3726	170.0	4878	170.0	4878
	144 in	170.0	2131	170.0	2131	170.0	2899	170.0	2899	170.0	3888	170.0	3888	170.0	3888	170.0	3888	170.0	3888	170.0	5090	170.0	5090
	150 in	170.0	2220	170.0	2220	170.0	3020	170.0	3020	170.0	4050	170.0	4050	170.0	4050	170.0	4050	170.0	4050	170.0	5302	170.0	5302
	156 in	170.0	2309	170.0	2309	170.0	3141	170.0	3141	170.0	4212	170.0	4212	170.0	4212	170.0	4212	170.0	4212	170.0	5514	170.0	5514
	162 in	170.0	2398	170.0	2398	170.0	3262	170.0	3262	170.0	4374	170.0	4374	170.0	4374	170.0	4374	170.0	4374	170.0	5726	170.0	5726
	168 in	170.0	2487	170.0	2487	170.0	3383	170.0	3383	170.0	4536	170.0	4536	170.0	4536	170.0	4536	170.0	4536	170.0	5938	170.0	5938

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req}) \times \left(\frac{\text{ANCHOR CAP}_{req}}{\text{MULLION CAP}_{req}}\right) = \text{ANCHOR CAP}_{adj}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 4B

Anchor Capacity (lbs)	Substrate / Anchor Type	Wood: 3/8" Diameter Lag Screw	Wood: #8 Screw	Wood: #10 Screw	Wood: #12 Screw	Hollow CMU: 3/16" Diameter Wedge Anchor	Solid CMU: 3/16" Diameter Wedge Anchor	Solid CMU: 1/4" Diameter Wedge Anchor	Solid CMU: 5/16" Diameter Wedge Anchor	Solid CMU: 3/8" Diameter Wedge Anchor	Solid CMU: 1/2" Diameter Wedge Anchor	Poured CMU: 3/8" Diameter Wedge Anchor	Steel: #10 Screw Minimum 3 Threads Engaged	Steel: #12 Screw Minimum 3 Threads Engaged
	Edge Distance (in)	1	1 1/2"	1"	1 1/2"	1 1/2"	1"	1 1/2"	1 1/2"	1 1/2"	2"	1 1/2"	1/2"	1/2"
	Embedment (in)	1 3/4"	1 3/4"	1 3/4"	1 3/4"	2"	1 3/4"	1 3/4"	1 3/4"	1 3/4"	2"	1 3/4"	1/4"	1/4"
1 Anchor @ 12" Min. O.C. / Mullion to Clear Edge Per Fig. 1(a)		170 lbs	170 lbs	170 lbs	170 lbs	170 lbs	170 lbs	170 lbs	170 lbs	170 lbs	170 lbs	170 lbs	170 lbs	170 lbs
2 Anchors @ 24" Min. O.C. / Mullion to Clear Edge Per Fig. 1(b)		340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs
3 Anchors @ 12" Min. O.C. / Mullion to Clear Edge Per Fig. 1(c)		510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs
4 Anchors @ 24" Min. O.C. / 2 per Angle Clip / Fig. 2		680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs
6 Anchors @ 24" Min. O.C. / 2 per Angle Clip / Fig. 3		1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs
8 Anchors @ 24" Min. O.C. / 2 per Angle Clip / Fig. 4		1360 lbs	1360 lbs	1360 lbs	1360 lbs	1360 lbs	1360 lbs	1360 lbs	1360 lbs	1360 lbs	1360 lbs	1360 lbs	1360 lbs	1360 lbs
3 Anchors @ 12" Min. O.C. / Mullion to Clear Edge Per Fig. 5		510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs	510 lbs
4 Anchors @ 12" Min. O.C. / 2 per Angle Clip / Fig. 6		680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs
6 Anchors @ 12" Min. O.C. / 2 per Angle Clip / Fig. 7		1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs	1020 lbs
1 Anchor @ 2" Min. O.C. / Angle Clip / Fig. 8		340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs
1 Anchor @ 1.25" Min. O.C. / Angle Clip / Fig. 9		340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs	340 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1: FIGURE 2: FIGURE 3: FIGURE 4: FIGURE 8: FIGURE 9:

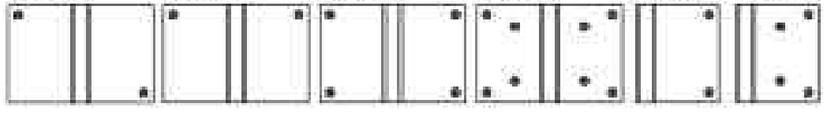
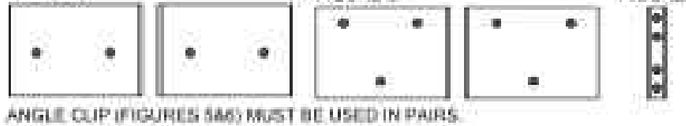


FIGURE 5: FIGURE 6: FIGURE 7:



ANGLE CLIP (FIGURES 5&6) MUST BE USED IN PAIRS.

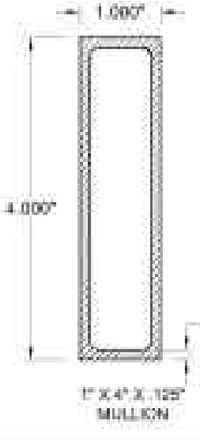
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1 X 4 X .125 MULL SPECS
Drawing No. 6300JR
Sheet 8 OF 22
Scale N/A
Date 08/29/11
Drawn By J ROSOWSKI
Checked By A MORLESIN
Date 03/19/26
Description REVISED ANCHOR TABLE
Revisions/Updates

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 25-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/21/25
A LYNN MILLER P.E.
P.E.# 58705

TABLE 5A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically spanning mullions) or **Opening Height** (for horizontally spanning mullions)

1" x 4" x .375" Alum. Tube & "T" Mullion	Mull Length	60 in		72 in		84 in		96 in		108 in		120 in		132 in		144 in		156 in		168 in		180 in	
		Perpendicular Loading		Perpendicular Loading	Reverse Loading	Perpendicular Loading	Reverse Loading	Perpendicular Loading	Reverse Loading	Perpendicular Loading	Reverse Loading	Perpendicular Loading	Reverse Loading	Perpendicular Loading	Reverse Loading	Perpendicular Loading	Reverse Loading	Perpendicular Loading	Reverse Loading	Perpendicular Loading	Reverse Loading	Perpendicular Loading	Reverse Loading
		Design Capacity (lbs/ft²)	Ultimate Capacity (lbs/ft²)	Design Capacity (lbs/ft²)	Ultimate Capacity (lbs/ft²)	Design Capacity (lbs/ft²)	Ultimate Capacity (lbs/ft²)	Design Capacity (lbs/ft²)	Ultimate Capacity (lbs/ft²)	Design Capacity (lbs/ft²)	Ultimate Capacity (lbs/ft²)	Design Capacity (lbs/ft²)	Ultimate Capacity (lbs/ft²)	Design Capacity (lbs/ft²)	Ultimate Capacity (lbs/ft²)	Design Capacity (lbs/ft²)	Ultimate Capacity (lbs/ft²)	Design Capacity (lbs/ft²)	Ultimate Capacity (lbs/ft²)	Design Capacity (lbs/ft²)	Ultimate Capacity (lbs/ft²)	Design Capacity (lbs/ft²)	Ultimate Capacity (lbs/ft²)
	42 in	106.0	424.0	106.0	424.0	106.0	424.0	106.0	424.0	106.0	424.0	106.0	424.0	106.0	424.0	106.0	424.0	106.0	424.0	106.0	424.0	106.0	424.0
	48 in	92.8	371.2	92.8	371.2	92.8	371.2	92.8	371.2	92.8	371.2	92.8	371.2	92.8	371.2	92.8	371.2	92.8	371.2	92.8	371.2	92.8	371.2
	60 in (5 ft)	82.5	330.0	82.5	330.0	82.5	330.0	82.5	330.0	82.5	330.0	82.5	330.0	82.5	330.0	82.5	330.0	82.5	330.0	82.5	330.0	82.5	330.0
	72 in	74.0	296.0	74.0	296.0	74.0	296.0	74.0	296.0	74.0	296.0	74.0	296.0	74.0	296.0	74.0	296.0	74.0	296.0	74.0	296.0	74.0	296.0
	84 in	67.2	268.8	67.2	268.8	67.2	268.8	67.2	268.8	67.2	268.8	67.2	268.8	67.2	268.8	67.2	268.8	67.2	268.8	67.2	268.8	67.2	268.8
	96 in	62.1	248.4	62.1	248.4	62.1	248.4	62.1	248.4	62.1	248.4	62.1	248.4	62.1	248.4	62.1	248.4	62.1	248.4	62.1	248.4	62.1	248.4
	108 in	57.8	231.2	57.8	231.2	57.8	231.2	57.8	231.2	57.8	231.2	57.8	231.2	57.8	231.2	57.8	231.2	57.8	231.2	57.8	231.2	57.8	231.2
	120 in (10 ft)	54.0	216.0	54.0	216.0	54.0	216.0	54.0	216.0	54.0	216.0	54.0	216.0	54.0	216.0	54.0	216.0	54.0	216.0	54.0	216.0	54.0	216.0
	132 in	50.8	203.2	50.8	203.2	50.8	203.2	50.8	203.2	50.8	203.2	50.8	203.2	50.8	203.2	50.8	203.2	50.8	203.2	50.8	203.2	50.8	203.2
	144 in	48.0	192.0	48.0	192.0	48.0	192.0	48.0	192.0	48.0	192.0	48.0	192.0	48.0	192.0	48.0	192.0	48.0	192.0	48.0	192.0	48.0	192.0
	156 in	45.4	181.6	45.4	181.6	45.4	181.6	45.4	181.6	45.4	181.6	45.4	181.6	45.4	181.6	45.4	181.6	45.4	181.6	45.4	181.6	45.4	181.6
	168 in (14 ft)	43.2	172.8	43.2	172.8	43.2	172.8	43.2	172.8	43.2	172.8	43.2	172.8	43.2	172.8	43.2	172.8	43.2	172.8	43.2	172.8	43.2	172.8
	180 in (15 ft)	41.1	164.4	41.1	164.4	41.1	164.4	41.1	164.4	41.1	164.4	41.1	164.4	41.1	164.4	41.1	164.4	41.1	164.4	41.1	164.4	41.1	164.4
	192 in (16 ft)	39.2	156.8	39.2	156.8	39.2	156.8	39.2	156.8	39.2	156.8	39.2	156.8	39.2	156.8	39.2	156.8	39.2	156.8	39.2	156.8	39.2	156.8

TABLE 5B

Anchor Capacity (lbs):	Anchor Type	3/16" Diameter Stainless Steel Screw		1/4" Diameter Stainless Steel Screw		5/16" Diameter Stainless Steel Screw	3/16" Diameter Aluminum Screw		1/4" Diameter Aluminum Screw		5/16" Diameter Aluminum Screw	Wood to Wood (Nail Gun)		Wood to Concrete (Nail Gun)		Wood to Concrete (Powder Actuated)		Wood to Concrete (Wedge Anchor)	
	Base Substrate (in):	1"	3-1/2"	1"	3-1/2"	1-1/8"	1"	3-1/2"	1"	3-1/2"	1"	1"	3-1/2"	1"	3-1/2"	1"	3-1/2"	1"	3-1/2"
	Embedment (in):	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-1/4"	1-1/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1"	1"	1-3/4"	1-3/4"
1 Anchor @ 4" Min. O.C. / Standard Offset Clip (Fig. 1&2)		510 lbs	680 lbs	680 lbs	680 lbs	680 lbs	340 lbs	510 lbs	510 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	340 lbs	340 lbs	680 lbs	680 lbs
2 Anchors @ 2.67" Min. O.C. / Standard or Offset Clip (Fig. 1)		765 lbs	1,020 lbs	765 lbs	1,020 lbs	765 lbs	510 lbs	765 lbs	765 lbs	1,020 lbs	1,020 lbs	1,020 lbs	1,020 lbs	1,020 lbs	1,020 lbs	510 lbs	510 lbs	1,020 lbs	1,020 lbs
3 Anchors @ 2.67" Min. O.C. / Standard or Offset Clip (Fig. 1)		1,020 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	680 lbs	1,020 lbs	1,020 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	680 lbs	680 lbs	1,360 lbs	1,360 lbs
4 Anchors @ 2" Min. O.C. / Standard Angle Clip (Fig. 3)		1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	680 lbs	1,020 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	680 lbs	680 lbs	1,360 lbs	1,360 lbs
5 Anchors @ 2" Min. O.C. / Standard Angle Clip (Fig. 3)		1,700 lbs	1,700 lbs	1,700 lbs	1,700 lbs	1,700 lbs	850 lbs	1,275 lbs	1,700 lbs	1,700 lbs	1,700 lbs	1,700 lbs	1,700 lbs	1,700 lbs	1,700 lbs	850 lbs	850 lbs	1,700 lbs	1,700 lbs
6 Anchors @ 1.67" Min. O.C. / Standard Angle Clip (Fig. 3)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Anchors @ 2.67" Min. O.C. / Angle Clip (Fig. 4)		510 lbs	680 lbs	510 lbs	680 lbs	510 lbs	340 lbs	510 lbs	510 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	680 lbs	340 lbs	340 lbs	680 lbs	680 lbs
4 Anchors @ 2.67" Min. O.C. / Angle Clip (Fig. 4)		680 lbs	1,360 lbs	680 lbs	1,360 lbs	680 lbs	510 lbs	680 lbs	680 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	1,360 lbs	510 lbs	510 lbs	1,360 lbs	1,360 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1: FIGURE 2: FIGURE 3: FIGURE 4: FIGURE 8: FIGURE 9:

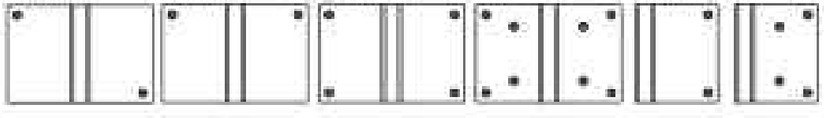


FIGURE 5: FIGURE 6: FIGURE 7:



ANGLE CLIP (FIGURES 5&6) MUST BE USED IN PAIRS.

TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

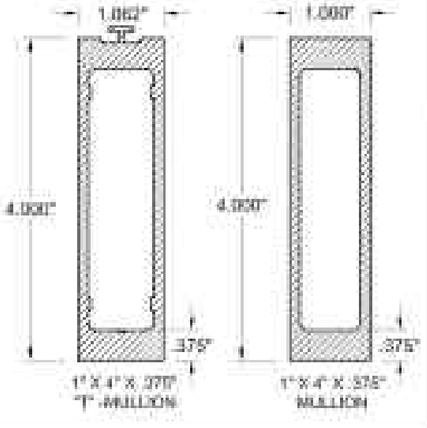
3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL HAVE A MIN. SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .043" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DF_{WL}) \times \left(\frac{\text{ANCHOR CAP}_{___}}{\text{MULLION CAP}_{___}}\right) = \text{ANCHOR CAP}_{___}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.



PRODUCT REVISED
As complying with the Florida Building Code
NOA No. 26-0401.06
Expiration Date: 05/26/2031
By: Manuela Forero
Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 05/21/26 STATE OF FLORIDA PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

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(941) 480-1600

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Drawing Title: 1 X 4 X .375 MULL SPECS
Series: N/A
Drawing No.: 6300JR
Sheet: 9 OF 22
Drawn By: J.ROSOWSKI
Date: 08/29/11
Checked By: A.MORLESIN
Date: 03/19/26
Description: REVISED ANCHOR TABLE
Scale: N/A
Rev: F

TABLE 6A

Mullion Capacity Table (lbs/ft²)

Opening Width (for vertically spanning mullions) or **Opening Height** (for horizontally spanning mullions)

1.25" x 3.168" x .265" Alum Tube Mull		20"		30"		40"		50"		60"		70"		80"		90"		100"		120"		140"		160"	
	Mull Length	Reinforcing Required	Anchor Capacity Required (lbs)	Reinforcing Required	Anchor Capacity Required (lbs)	Reinforcing Required	Anchor Capacity Required (lbs)	Reinforcing Required	Anchor Capacity Required (lbs)	Reinforcing Required	Anchor Capacity Required (lbs)	Reinforcing Required	Anchor Capacity Required (lbs)	Reinforcing Required	Anchor Capacity Required (lbs)	Reinforcing Required	Anchor Capacity Required (lbs)	Reinforcing Required	Anchor Capacity Required (lbs)	Reinforcing Required	Anchor Capacity Required (lbs)	Reinforcing Required	Anchor Capacity Required (lbs)	Reinforcing Required	Anchor Capacity Required (lbs)
	48"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	60"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	80"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	96"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	108"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	120"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	132"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	144"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	156"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	168"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	180"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	192"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	204"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	216"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	228"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	240"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	252"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	264"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	276"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20
	288"	1/4"	1,000	1/4"	450	1/4"	250	1/4"	160	1/4"	110	1/4"	80	1/4"	60	1/4"	50	1/4"	40	1/4"	30	1/4"	20	1/4"	20

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$\text{Adj. Anchor Cap.} = \left(\frac{\text{ANCHOR CAP.}}{\text{MULLION CAP.}}\right) \times \text{ANCHOR CAP.}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 6B

Anchor Capacity (lbs)	Substrate: Anchor Type	Concrete: 3/16" Diameter Fastener		Concrete: 1/4" Diameter Fastener		1/4"-20 Coarse Thread Fastener	Masonry (CMU): 3/16" Diameter Fastener		Masonry (CMU): 1/4" Diameter Fastener		Masonry (CMU): #10 Sheet Metal Screw Approximate	Masonry (CMU): 5/16" Diameter Fastener	Wood (SYP): 1/4" Diameter Fastener Approximate	Wood: #10 Sheet Screw Approximate	Wood: #12 Sheet Screw Approximate	Metal: #10 Sheet Metal Screw Approximate
	Edge Distance (in)	1"	3 (1/2")	1"	3 (1/2")	4 (1/4")	1"	3 (1/2")	1"	3 (1/2")	1"	3 (1/2")	1"	1.438"	1.438"	1.438"
	Embedment (in)	1.438"	1.438"	1.438"	1.438"	1"	1.438"	1.438"	1.438"	1.438"	1.438"	1.438"	1"	1.438"	1.438"	.625"
1 Anchor @ 4" O.C. / Standard Offset Clip (Fig. 1)		400 lbs	600 lbs	600 lbs	800 lbs	400 lbs	200 lbs	300 lbs	300 lbs	400 lbs	200 lbs	300 lbs	400 lbs	300 lbs	400 lbs	300 lbs
2 Anchors @ 4" O.C. / Standard Offset Clip (Fig. 1)		800 lbs	1200 lbs	1200 lbs	1600 lbs	N/A	N/A	600 lbs	N/A	800 lbs	N/A	600 lbs	N/A	N/A	N/A	600 lbs
4 Anchors @ 4" O.C. / Offset Anchor Pattern (Fig. 2)		1600 lbs	2400 lbs	2400 lbs	3200 lbs	1600 lbs	800 lbs	1200 lbs	1200 lbs	1600 lbs	800 lbs	1200 lbs	1600 lbs	1200 lbs	1600 lbs	1200 lbs
4 Anchors @ 4" O.C. / Offset Anchor Pattern (Fig. 3)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 Anchor @ 4" O.C. / Angle Clip (Fig. 5)		500 lbs	750 lbs	750 lbs	1000 lbs	500 lbs	250 lbs	375 lbs	375 lbs	500 lbs	250 lbs	375 lbs	500 lbs	375 lbs	500 lbs	375 lbs
2 Anchors @ 4" O.C. / Angle Clip (Fig. 6)		1000 lbs	1500 lbs	1500 lbs	N/A	N/A	N/A	750 lbs	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1:

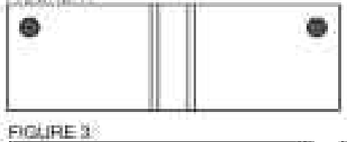


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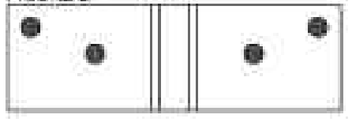
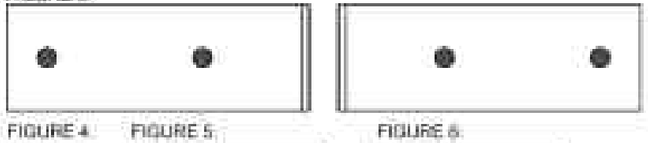


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:



FIGURE 5:

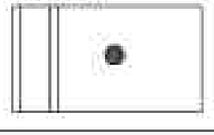


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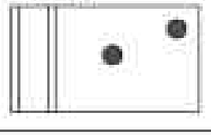


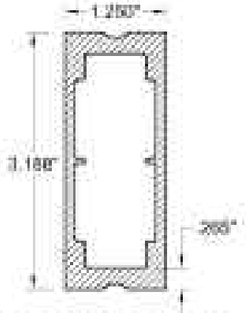
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

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Date 08/29/11
Checked By
Date
Rev F
Drawn By J ROSOWSKI
Approved By A MORLESIN
Date 03/19/26 REVISED ANCHOR TABLE

PRODUCT REVISED
As complying with the Florida Building Code
NOA No. 25-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/21/25
A LYNN MILLER, P.E.
P.E.# 58705

TABLE 7A

Mullion Capacity Table (psf)

Opening Width (in.) / Mullion Capacity (psf) or Opening Height (in.) / Mullion Capacity (psf)

1.25 x 3.25 x .100 Alum. Tube Mullion	90 in.				120 in.				144 in.				168 in.				192 in.				216 in.				240 in.				264 in.			
	Rectangular Loading		Dual Story Loading		Rectangular Loading		Dual Story Loading		Rectangular Loading		Dual Story Loading		Rectangular Loading		Dual Story Loading		Rectangular Loading		Dual Story Loading		Rectangular Loading		Dual Story Loading		Rectangular Loading		Dual Story Loading		Rectangular Loading		Dual Story Loading	
	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)	Mullion Capacity (psf)	Anchor Capacity Required (psf)
Mullion Length																																
60 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
72 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
81.833 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
84 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
96 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
108 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
120 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
132 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
144 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
156 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
168 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
180 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
192 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
204 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
216 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
228 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
240 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
252 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
264 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
276 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
288 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
300 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
312 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
324 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
336 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
348 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
360 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
372 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
384 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
396 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
408 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
420 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
432 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
444 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
456 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
468 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5
480 in.	170.3	85.1	170.3	85.1	114.5	57.2	114.5	57.2	78.9	39.4	78.9	39.4	103.6	51.8	103.6	51.8	130.1	65.0	130.1	65.0	159.0	79.5	159.0	79.5	190.4	95.2	190.4	95.2	95.1	47.5	95.1	47.5

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req.}) \times \left(\frac{\text{ANCHOR CAP.}_{req.}}{\text{MULLION CAP.}_{req.}}\right) = \text{ANCHOR CAP.}_{req.}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 7B

Anchor Capacity (lbs)	Substrate / Anchor Type	3/16" Diameter Fasteners		1/4" Diameter Fasteners		#10 Screw	5/16" Diameter Fasteners				3/8" Diameter Fasteners				1/2" Diameter Fasteners		Head Bolt	Nuts		Shim
		Edge Distance (in.)	1"	2-1/2"	1"	2-1/2"	2-1/2"	1"	2-1/2"	1"	2-1/2"	2"	2-1/2"	3"	2"	3"	3"	5/16	3/8 in.	0.500"
		Spacing (in.)	1.000"	1.000"	1.000"	1.000"	3"	1.250"	1.250"	1.250"	1.250"	2"	2"	2"	3"	3"	3"			
2 Anchors @ 6 in. O.C. / 2 Anchors @ 6 in. O.C.	Wood	304 lbs	608 lbs	228 lbs	457 lbs	1941 lbs	380 lbs	760 lbs	285 lbs	571 lbs	760 lbs	950 lbs	713 lbs	1426 lbs	1140 lbs	2281 lbs	2852 lbs	367 lbs	552 lbs	552 lbs
4 Anchors @ 12 in. O.C. / 4 Anchors @ 12 in. O.C.	Wood	608 lbs	1216 lbs	457 lbs	914 lbs	3882 lbs	760 lbs	1520 lbs	571 lbs	1141 lbs	1520 lbs	1900 lbs	1426 lbs	2852 lbs	2281 lbs	4562 lbs	5704 lbs	734 lbs	1104 lbs	1104 lbs
2 Anchors @ 6 in. O.C. / 2 Anchors @ 6 in. O.C.	Concrete	608 lbs	608 lbs	457 lbs	457 lbs	1941 lbs	760 lbs	760 lbs	571 lbs	571 lbs	760 lbs	950 lbs	713 lbs	1426 lbs	1140 lbs	2281 lbs	2852 lbs	367 lbs	552 lbs	552 lbs
4 Anchors @ 12 in. O.C. / 4 Anchors @ 12 in. O.C.	Concrete	1216 lbs	1216 lbs	914 lbs	914 lbs	3882 lbs	1520 lbs	1520 lbs	1141 lbs	1141 lbs	1520 lbs	1900 lbs	1426 lbs	2852 lbs	2281 lbs	4562 lbs	5704 lbs	734 lbs	1104 lbs	1104 lbs
2 Anchors @ 6 in. O.C. / 2 Anchors @ 6 in. O.C.	CMU	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4 Anchors @ 12 in. O.C. / 4 Anchors @ 12 in. O.C.	CMU	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Anchor Capacity Required (psf)		152 psf	304 psf	114 psf	228 psf	970 psf	190 psf	380 psf	143 psf	285 psf	380 psf	475 psf	356 psf	713 psf	570 psf	1140 psf	1426 psf	183 psf	276 psf	276 psf
2 Anchors @ 6 in. O.C. / 2 Anchors @ 6 in. O.C.	Anchor Capacity Required (psf)	304 psf	304 psf	228 psf	228 psf	970 psf	380 psf	380 psf	285 psf	285 psf	380 psf	475 psf	356 psf	713 psf	570 psf	1140 psf	1426 psf	183 psf	276 psf	276 psf
4 Anchors @ 12 in. O.C. / 4 Anchors @ 12 in. O.C.	Anchor Capacity Required (psf)	608 psf	608 psf	457 psf	457 psf	1941 psf	760 psf	760 psf	571 psf	571 psf	760 psf	950 psf	713 psf	1426 psf	1140 psf	2281 psf	2852 psf	367 psf	552 psf	552 psf

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1:



FIGURE 2:

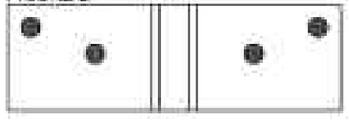
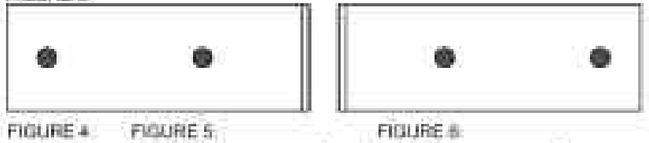


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:



FIGURE 5:

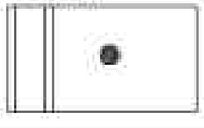


FIGURE 6:

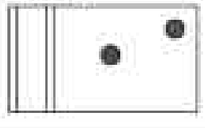


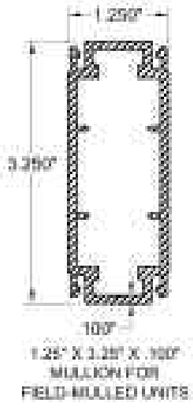
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

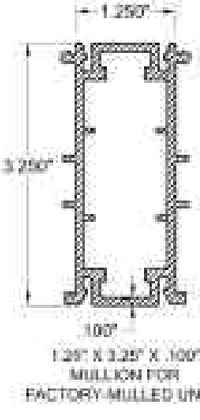
2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL HAVE A MIN. SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .100" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



1.25" X 3.25" X .100" MULLION FOR FIELD-MULLED UNITS



1.25" X 3.25" X .100" MULLION FOR FACTORY-MULLED UNITS

PGT Custom Windows and Doors
1070 PGT INDUSTRIES DRIVE
N. VENICE, FL 34275
(941) 486-0600

IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
1.25 X 3.25 X .100 MULL SPECS
Drawing No. 6300JR
Sheet 11 OF 22
Scale N/A
Date 08/29/11
Checked By
Date
Approved By A MORLESIN
Date 03/19/26
Rev F
REVISED ANCHOR TABLE

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 26-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/21/25
A LYNN MILLER, P.E.
P.E.# 58705

TABLE 8A

Mullion Capacity Table (lbs/ft²)

1.25 x 3.25 x .624 Alum. Tube Mullion	Opening Width (for vertical/approaching horizontal) or Opening Height (for horizontal/approaching vertical)																																			
	30 in				40 in				50 in				60 in				70 in				80 in				90 in				100 in				110 in			
Mullion Length	Rectangular Loading		Inverted Triangular Loading		Rectangular Loading		Inverted Triangular Loading		Rectangular Loading		Inverted Triangular Loading		Rectangular Loading		Inverted Triangular Loading		Rectangular Loading		Inverted Triangular Loading		Rectangular Loading		Inverted Triangular Loading		Rectangular Loading		Inverted Triangular Loading		Rectangular Loading		Inverted Triangular Loading		Rectangular Loading		Inverted Triangular Loading	
	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/anchor)
40 in	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680	170.0	680
60 in	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708	170.0	708
80 in	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737	170.0	737
100 in	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767	170.0	767
120 in	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797	170.0	797
140 in	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826	170.0	826
160 in	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856	170.0	856
180 in	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886	170.0	886
200 in	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915	170.0	915
220 in	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945	170.0	945
240 in	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975	170.0	975
260 in	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004	170.0	1004
280 in	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034	170.0	1034
300 in	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064	170.0	1064
320 in	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093	170.0	1093
340 in	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123	170.0	1123
360 in	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153	170.0	1153

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req.}) \times \left(\frac{\text{ANCHOR CAP.}_{\text{mullion}}}{\text{MULLION CAP.}_{\text{mullion}}}\right) = \text{ANCHOR CAP.}_{req.}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 8B

Anchor Capacity (lbs)	Substrate	Wood		Steel		Concrete or Masonry					Aluminum	Vinyl		Masonry	
	Anchor Type	#10 SMS (Minimum)	#12 SMS (Minimum)	#10 SMS (Minimum)	#12 SMS (Minimum)	3/16" Tapcon (Minimum)	1/4" Tapcon (Minimum)		3/16" Dropin Anchor (Minimum)	1/4" Dropin Anchor (Minimum)	1/4" SS Drill Screw (Minimum)	#8 SS Screw (Minimum)	#10 SS Screw (Minimum)	#8 SS Screw (Minimum)	#10 SS Screw (Minimum)
	Edge Distance (min)	1"	1-1/2"	1"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2"	1/2"	1/2"	1/2"	1/2"
	Embedment (in)	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1"	1-1/4"	1-3/4"	1-3/4"	2-1/4"	1-3/4"	1"	1"	1"	1"
2 Anchors @ 4" Min. C-C / Standard Offset Clip (Fig. 1)	340 lbs	408 lbs	408 lbs	408 lbs	408 lbs	340 lbs	408 lbs	408 lbs	340 lbs	408 lbs	408 lbs	340 lbs	408 lbs	340 lbs	408 lbs
3 Anchors @ 4" Min. C-C / Standard Offset Clip (Fig. 1)	510 lbs	612 lbs	612 lbs	612 lbs	612 lbs	510 lbs	612 lbs	612 lbs	510 lbs	612 lbs	612 lbs	510 lbs	612 lbs	510 lbs	612 lbs
4 Anchors @ 4" Min. C-C / Standard Offset Clip (Fig. 1)	680 lbs	816 lbs	816 lbs	816 lbs	816 lbs	680 lbs	816 lbs	816 lbs	680 lbs	816 lbs	816 lbs	680 lbs	816 lbs	680 lbs	816 lbs
4 Anchors @ 6" Min. C-C / Offset Clip (Fig. 2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 Anchor / Side (Fig. 3)	170 lbs	204 lbs	204 lbs	408 lbs	408 lbs	170 lbs	204 lbs	408 lbs	170 lbs	204 lbs	408 lbs	170 lbs	204 lbs	170 lbs	204 lbs
2 Anchors @ 10" Min. C-C / Angle Clip (Fig. 3)	340 lbs	408 lbs	408 lbs	816 lbs	816 lbs	340 lbs	408 lbs	816 lbs	340 lbs	408 lbs	816 lbs	340 lbs	408 lbs	340 lbs	408 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1:



FIGURE 2:

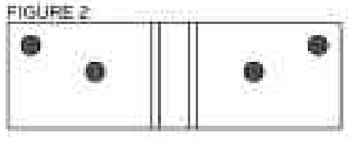
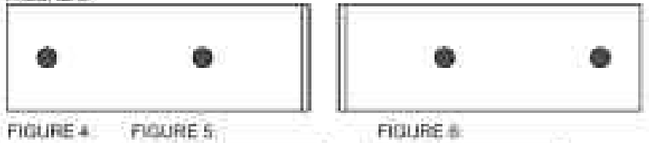


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:

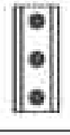


FIGURE 5:

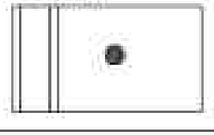


FIGURE 6:

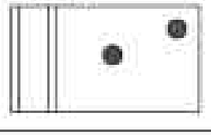


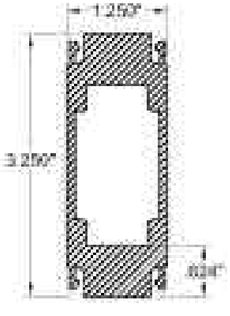
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

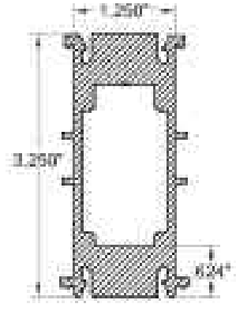
2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL HAVE A MIN. SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .100" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



1.25" X 3.25" X .624" MULLION FOR FIELD MULLED UNITS



1.25" X 3.25" X .624" MULLION FOR FACTORY MULLED UNITS

IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

1.25 X 3.25 X .624 MULL SPECS

Drawing No. 6300.JR

Sheet 12 OF 22

Drawn By: J ROSOWSKI

Date: 08/29/11

Checked By: A MORLESIN

Date: 03/19/26

REVISED ANCHOR TABLE

DCI

Custom Windows and Doors

3440 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

registration number

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 26-0401.06
Expiration Date: 05/26/2031
By: Manuela Tejera
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
05/31/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A LYNN MILLER, P.E.
P.E.# 58705

TABLE 9A

Mullion Capacity Table (lbs/ft²)

1.25 x 3.94 x .624 Alum. Tube Mullion

Mullion Length	Opening Width / or vertically spanning (+) Opening or Opening Height (-) for horizontally spanning (+) Openings	30 in				40 in				70 in				80 in				90 in				100 in				120 in				140 in				160 in				180 in				200 in			
		Rectangular Opening		Inset Fixing Opening		Rectangular Opening		Dual Fixing Opening		Rectangular Opening		Inset Fixing Opening		Rectangular Opening		Inset Fixing Opening		Rectangular Opening		Inset Fixing Opening		Rectangular Opening		Inset Fixing Opening		Rectangular Opening		Inset Fixing Opening		Rectangular Opening		Inset Fixing Opening		Rectangular Opening		Inset Fixing Opening		Rectangular Opening		Inset Fixing Opening		Rectangular Opening		Inset Fixing Opening	
		Positive Capacity (psf)	Anchor Capacity (lbs/anchor)	Negative Capacity (psf)	Anchor Capacity (lbs/anchor)	Positive Capacity (psf)	Anchor Capacity (lbs/anchor)	Negative Capacity (psf)	Anchor Capacity (lbs/anchor)	Positive Capacity (psf)	Anchor Capacity (lbs/anchor)	Negative Capacity (psf)	Anchor Capacity (lbs/anchor)	Positive Capacity (psf)	Anchor Capacity (lbs/anchor)	Negative Capacity (psf)	Anchor Capacity (lbs/anchor)	Positive Capacity (psf)	Anchor Capacity (lbs/anchor)	Negative Capacity (psf)	Anchor Capacity (lbs/anchor)	Positive Capacity (psf)	Anchor Capacity (lbs/anchor)	Negative Capacity (psf)	Anchor Capacity (lbs/anchor)	Positive Capacity (psf)	Anchor Capacity (lbs/anchor)	Negative Capacity (psf)	Anchor Capacity (lbs/anchor)	Positive Capacity (psf)	Anchor Capacity (lbs/anchor)	Negative Capacity (psf)	Anchor Capacity (lbs/anchor)	Positive Capacity (psf)	Anchor Capacity (lbs/anchor)	Negative Capacity (psf)	Anchor Capacity (lbs/anchor)	Positive Capacity (psf)	Anchor Capacity (lbs/anchor)	Negative Capacity (psf)	Anchor Capacity (lbs/anchor)	Positive Capacity (psf)	Anchor Capacity (lbs/anchor)	Negative Capacity (psf)	Anchor Capacity (lbs/anchor)
Mullion Length	40 in	170.0	520	170.0	520	170.0	344	170.0	344	170.0	309	170.0	309	170.0	318	170.0	318	170.0	328	170.0	328	170.0	338	170.0	338	170.0	347	170.0	347	170.0	357	170.0	357	170.0	366	170.0	366	170.0	376	170.0	376	170.0	385	170.0	385
	80 in	170.0	708	170.0	708	170.0	469	170.0	469	170.0	420	170.0	420	170.0	433	170.0	433	170.0	447	170.0	447	170.0	460	170.0	460	170.0	473	170.0	473	170.0	486	170.0	486	170.0	499	170.0	499	170.0	512	170.0	512	170.0	525	170.0	525
	120 (10 ft)	170.0	747	170.0	747	170.0	495	170.0	495	170.0	444	170.0	444	170.0	457	170.0	457	170.0	472	170.0	472	170.0	486	170.0	486	170.0	499	170.0	499	170.0	513	170.0	513	170.0	527	170.0	527	170.0	541	170.0	541	170.0	554	170.0	554
	140 in	170.0	781	170.0	781	170.0	518	170.0	518	170.0	464	170.0	464	170.0	478	170.0	478	170.0	493	170.0	493	170.0	508	170.0	508	170.0	522	170.0	522	170.0	536	170.0	536	170.0	551	170.0	551	170.0	565	170.0	565	170.0	580	170.0	580
	160 in	170.0	815	170.0	815	170.0	540	170.0	540	170.0	484	170.0	484	170.0	498	170.0	498	170.0	514	170.0	514	170.0	529	170.0	529	170.0	544	170.0	544	170.0	559	170.0	559	170.0	574	170.0	574	170.0	589	170.0	589	170.0	604	170.0	604
	180 in	170.0	849	170.0	849	170.0	563	170.0	563	170.0	504	170.0	504	170.0	519	170.0	519	170.0	535	170.0	535	170.0	551	170.0	551	170.0	566	170.0	566	170.0	582	170.0	582	170.0	597	170.0	597	170.0	613	170.0	613	170.0	628	170.0	628
	200 in	170.0	883	170.0	883	170.0	585	170.0	585	170.0	524	170.0	524	170.0	539	170.0	539	170.0	556	170.0	556	170.0	573	170.0	573	170.0	588	170.0	588	170.0	605	170.0	605	170.0	621	170.0	621	170.0	637	170.0	637	170.0	653	170.0	653
	220 in	170.0	917	170.0	917	170.0	608	170.0	608	170.0	544	170.0	544	170.0	560	170.0	560	170.0	577	170.0	577	170.0	594	170.0	594	170.0	611	170.0	611	170.0	628	170.0	628	170.0	645	170.0	645	170.0	662	170.0	662	170.0	679	170.0	679
	240 in	170.0	951	170.0	951	170.0	630	170.0	630	170.0	564	170.0	564	170.0	581	170.0	581	170.0	598	170.0	598	170.0	616	170.0	616	170.0	633	170.0	633	170.0	651	170.0	651	170.0	668	170.0	668	170.0	686	170.0	686	170.0	703	170.0	703
	260 in	170.0	985	170.0	985	170.0	653	170.0	653	170.0	584	170.0	584	170.0	602	170.0	602	170.0	619	170.0	619	170.0	638	170.0	638	170.0	656	170.0	656	170.0	674	170.0	674	170.0	692	170.0	692	170.0	710	170.0	710	170.0	728	170.0	728
	280 in	170.0	1019	170.0	1019	170.0	675	170.0	675	170.0	604	170.0	604	170.0	623	170.0	623	170.0	641	170.0	641	170.0	660	170.0	660	170.0	679	170.0	679	170.0	698	170.0	698	170.0	716	170.0	716	170.0	735	170.0	735	170.0	753	170.0	753
	300 in	170.0	1053	170.0	1053	170.0	698	170.0	698	170.0	624	170.0	624	170.0	644	170.0	644	170.0	663	170.0	663	170.0	682	170.0	682	170.0	701	170.0	701	170.0	721	170.0	721	170.0	740	170.0	740	170.0	759	170.0	759	170.0	778	170.0	778
	320 in	170.0	1087	170.0	1087	170.0	720	170.0	720	170.0	644	170.0	644	170.0	665	170.0	665	170.0	685	170.0	685	170.0	704	170.0	704	170.0	724	170.0	724	170.0	744	170.0	744	170.0	764	170.0	764	170.0	783	170.0	783	170.0	803	170.0	803
	340 in	170.0	1121	170.0	1121	170.0	743	170.0	743	170.0	664	170.0	664	170.0	686	170.0	686	170.0	707	170.0	707	170.0	727	170.0	727	170.0	747	170.0	747	170.0	768	170.0	768	170.0	788	170.0	788	170.0	808	170.0	808	170.0	828	170.0	828
	360 in	170.0	1155	170.0	1155	170.0	765	170.0	765	170.0	684	170.0	684	170.0	707	170.0	707	170.0	728	170.0	728	170.0	749	170.0	749	170.0	770	170.0	770	170.0	791	170.0	791	170.0	812	170.0	812	170.0	833	170.0	833	170.0	853	170.0	853
	380 in	170.0	1189	170.0	1189	170.0	788	170.0	788	170.0	704	170.0	704	170.0	728	170.0	728	170.0	750	170.0	750	170.0	771	170.0	771	170.0	793	170.0	793	170.0	815	170.0	815	170.0	836	170.0	836	170.0	858	170.0	858	170.0	879	170.0	879
	400 in	170.0	1223	170.0	1223	170.0	810	170.0	810	170.0	724	170.0	724	170.0	749	170.0	749	170.0	771	170.0	771	170.0	793	170.0	793	170.0	816	170.0	816	170.0	838	170.0	838	170.0	860	170.0	860	170.0	883	170.0	883	170.0	904	170.0	904
	420 in	170.0	1257	170.0	1257	170.0	833	170.0	833	170.0	744	170.0	744	170.0	770	170.0	770	170.0	793	170.0	793	170.0	816	170.0	816	170.0	839	170.0	839	170.0	862	170.0	862	170.0	884	170.0	884	170.0	907	170.0	907	170.0	929	170.0	929
	440 in	170.0	1291	170.0	1291	170.0	855	170.0	855	170.0	764	170.0	764	170.0	791	170.0	791	170.0	814	170.0	814	170.0	838	170.0	838	170.0	861	170.0	861	170.0	885	170.0	885	170.0	908	170.0	908	170.0	931	170.0	931	170.0	954	170.0	954
	460 in	170.0	1325	170.0	1325	170.0	878	170.0	878	170.0	784	170.0	784	170.0	812	170.0	812	170.0	836	170.0	836	170.0	860	170.0	860	170.0	884	170.0	884	170.0	908	170.0	908	170.0	932	170.0	932	170.0	956	170.0	956	170.0	980	170.0	980
	480 in	170.0	1359	170.0	1359	170.0	900	170.0	900	170.0	804	170.0	804	170.0	833	170.0	833	170.0	857	170.0	857	170.0	882	170.0	882	170.0	906	170.0	906	170.0	931	170.0	931	170.0	955	170.0	955	170.0	980	170.0	980	170.0	1004	170.0	1004
	500 in	170.0	1393	170.0	1393	170.0	923	170.0	923	170.0	824	170.0	824	170.0	854	170.0	854	170.0	879	170.0	879	170.0	904	170.0	904	170.0	929	170.0	929	170.0	954	170.0	954	170.0	979	170.0	979	170.0	1004	170.0	1004	170.0	1029	170.0	1029
	520 in	170.0	1427	170.0	1427	170.0	945	170.0	945	170.0	844	170.0	844	170.0	875	170.0	875	170.0	900	170.0	900	170.0	926	170.0	926	170.0	951	170.0	951	170.0	977	170.0	977	170.0	1002	170.0	1002	170.0	1028	170.0	1028	170.0	1053	170.0	1053
	540 in	170.0	1461	170.0	1461	170.0	968	170.0	968	170.0	864	170.0	864	170.0	896	170.0	896	170.0	922	170.0	922	170.0	948	170.0	948	170.0	974	170.0	974	170.0	1000	170.0	1000	170.0	1026	170.0	1026	170.0	1052	170.0	1052	170.0	1078	170.0	1078
	560 in	170.0	1495	170.0	1495	170.0	990	170.0	990	170.0	884	170.0	884	170.0	917	170.0	917	170.0	943	170.0	943	170.0	970	170.0	970	170.0	996	170.0	996	170.0	1023	170.0	1023	170.0	1049	170.0	1049	170.0	1076	170.0	1076	170.0	1102	170.0	1102
	580 in	170.0	1529	170.0	1529	170.0	1013	170.0	1013	170.0	904	170.0	904	170.0	938	170.0	938	170.0	965	170.0	965	170.0	992	170.0	992	170.0	1019	170.0	1019	170.0	1046	170.0	1046	170.0	1073	170.0	1073	170.0	1100	170.0	1100	170.0	1127	170.0	1127
	600 in	170.0	1563	170.0	1563	170.0	1035	170.0	1035	170.0	924	170.0	924	170.0	959	170.0	959	170.0	986	170.0	986	170.0	1014	170.0	1014	170.0	1041	170.0	1041	170.0	1069	170.0	1069	170.0	1096	170.0	1096	170.0	1124	170.0	1124	170.0	1151	170.0	1151

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req.}) \times \left(\frac{\text{ANCHOR CAP.:_____}}{\text{MULLION CAP.:_____}}\right) = \text{ANCHOR CAP.}_{req.}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 9B

Anchor Capacity (lbs)	Anchor Type	Substrate	3/16" Diameter Titen	1/4" Diameter Ultracon	1/4" Diameter Titen	5/16" Diameter Ultracon	5/16" Diameter Titen	1/4" Diameter Titen	1/4" SS Diameter Aggressor	5/16" Diameter Titen	1/4" Diameter Ultracon	#10 Screw	#12 Screw	#12 Screw
	Edge Distance (in.)		1"	2-1/2"	1"	3-1/2"	1-1/8"	1"	1-1/2"	1"	3-1/2"	1"	2"	2"
	Embedment (in.)		1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	2"
2 Anchors @ 1.75" Min. O.C. / Standard Offset Min. (Fig. 1)		2,000 psi	420 lbs	420 lbs	280 lbs	840 lbs	1,120 lbs	280 lbs	280 lbs	560 lbs	840 lbs	840 lbs	560 lbs	840 lbs
2 Anchors @ 1.75" Min. O.C. / Standard Offset Min. (Fig. 1)		4,000 psi	560 lbs	560 lbs	374 lbs	N/A	N/A	374 lbs	374 lbs	N/A	N/A	N/A	560 lbs	1,120 lbs
4 Anchors @ 3" Min. O.C. / 2 x 2 Triple Offset (Fig. 2)		2,000 psi	1,080 lbs	840 lbs	1,120 lbs	1,680 lbs	2,240 lbs	560 lbs	560 lbs	1,120 lbs	1,680 lbs	1,680 lbs	1,120 lbs	1,680 lbs
4 Anchors @ 3" Min. O.C. / 2 x 2 Triple Offset (Fig. 2)		4,000 psi	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 Anchor @ 1.75" Min. O.C. / Standard Offset (Fig. 3)		2,000 psi	420 lbs	210 lbs	140 lbs	420 lbs	560 lbs	140 lbs	140 lbs	280 lbs	420 lbs	420 lbs	280 lbs	420 lbs
2 Anchors @ 1.75" Min. O.C. / Standard Offset (Fig. 3)		2,000 psi	560 lbs	560 lbs	374 lbs	840 lbs	1,120 lbs	374 lbs	374 lbs	560 lbs	840 lbs	840 lbs	560 lbs	840 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

FIGURE 1:

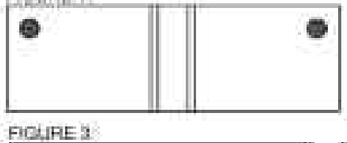


FIGURE 2:

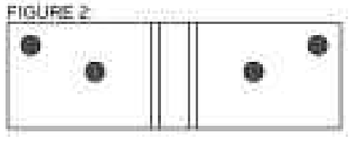
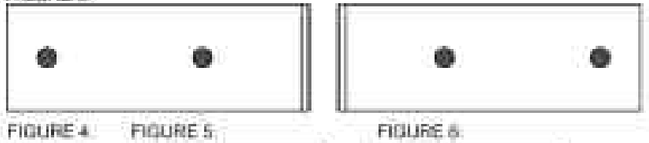


FIGURE 3:



ANGLE CLIP MUST BE USED IN PAIRS.

FIGURE 4:



FIGURE 5:

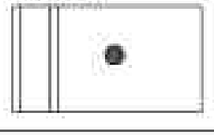


FIGURE 6:

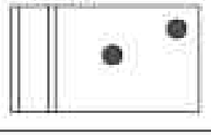


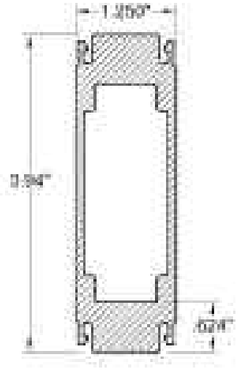
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL HAVE A MIN. SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .100" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL 18-8 S.S. OR 410 S.S.



1.25" X 3.94" X .624" MULLION

DCI
Custom Windows and Doors
300 PRECISION DRIVE
FT. PIERCE, FL 34982
(561) 489-1600

IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
1.25 X 3.94 X .624 MULL SPECS.
Drawn By: J.ROSOWSKI | Date: 08/20/11 | Scale: N/A | Drawing No.: 6300JR | Sheet: 13 OF 22
Checked By: A.MORLESIN | Date: 03/19/26 | Revised: REVISED ANCHOR TABLE | Size: F

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 26-0401.06
Expiration Date: 05/26/2031
By: Manuela Tome
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
03/21/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A LYNN MILLER, P.E.
P.E.# 58705

TABLE 10A

Maximum Capacity Table (lbs/ft²)

Opening Width (for vertically operating mullions) or **Opening Height** (for horizontally-operating mullions)

2 x 4 x .25 Alum. Tube Mullions		30 in.		50 in.		70 in.		90 in.		110 in.		130 in.		150 in.		170 in.		190 in.		210 in.	
		Reinforced Leading	Dual Fixing Leading	Reinforced Leading	Dual Fixing Leading	Reinforced Leading	Dual Fixing Leading	Reinforced Leading	Dual Fixing Leading	Reinforced Leading	Dual Fixing Leading	Reinforced Leading	Dual Fixing Leading	Reinforced Leading	Dual Fixing Leading	Reinforced Leading	Dual Fixing Leading	Reinforced Leading	Dual Fixing Leading	Reinforced Leading	Dual Fixing Leading
Mull Length	10 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
	40 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
	60 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
	80 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
	100 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
	120 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
	140 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
	160 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
	180 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
	200 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
	220 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
	240 in.	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0

ANCHOR CAPACITY ADJUSTMENT FORMULA

$$(DP_{min.}) \times \left(\frac{\text{ANCHOR CAP.}_{required}}{\text{MULLION CAP.}_{table}}\right) = \text{ANCHOR CAP.}_{min.}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 10B

Anchor Capacity (lbs)	Anchor Type	Substrate: Wood: Optional Minimum	Substrate: Wood: Preferred Minimum	Substrate: Steel: Minimum Thickness	Frame to Floor Clip: 2" Clip Thickness	Frame to Floor Clip: 3/16" Fastener	Frame to Floor Clip: 1/4" Fastener	Frame to Floor Clip: 5/16" Fastener	Frame to Floor Clip: 3/16" Fastener	Frame to Floor Clip: 3/16" Fastener	Frame to Floor Clip: 3/16" Fastener	Mullion to Floor Clip: 1/4" Fastener	Mullion to Floor Clip: 5/16" Fastener	Mullion to Floor Clip: 3/16" Fastener	Mullion to Floor Clip: 3/16" Fastener	Mullion to Floor Clip: 3/16" Fastener	Mullion to Floor Clip: 3/16" Fastener
	Edge Distance (in.)	1"	5-1/2"	1"	2-1/2"	1"	1"	1"	1"	2"	3"	1"	1"	1"	2"	3"	3"
	Embedment (in.)	1-1/4"	2-1/4"	1-1/2"	1-1/2"	1"	1-1/4"	1-1/2"	1-3/4"	1-1/2"	1-1/4"	1-1/4"	1-1/2"	1-3/4"	1-1/2"	1-1/4"	1-1/4"
1 Anchor @ 3.00" Min. C.L. / Mullion Leg (Each Clip) (Qty. 2)		300 lbs	300 lbs	300 lbs	1200 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs
2 Anchors @ 3.00" Min. C.L. / Mullion Leg (Each Clip) (Qty. 2)		600 lbs	600 lbs	600 lbs	1200 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs
3 Anchors @ 1.77" Min. C.L. / Mullion Leg (Each Clip) (Qty. 2)		900 lbs	900 lbs	900 lbs	2400 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs
4 Anchors @ 3" Min. C.L. / Mullion Leg (Each Clip) (Qty. 2)		1200 lbs	1200 lbs	1200 lbs	2400 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs
5 Anchors @ 1.50" Min. C.L. / Mullion Leg (Each Clip) (Qty. 2)		1200 lbs	1200 lbs	1200 lbs	2400 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs
6 Anchors @ 3.00" Min. C.L. / Mullion Leg (Each Clip) (Qty. 2)		1200 lbs	1200 lbs	1200 lbs	2400 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs
7 Anchors @ 2.50" Min. C.L. / Mullion Leg (Each Clip) (Qty. 2)		600 lbs	600 lbs	600 lbs	1200 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs
8 Anchors @ 2.14" Min. C.L. / Mullion Leg (Each Clip) (Qty. 2)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9 Anchors @ 1.88" Min. C.L. / Mullion Leg (Each Clip) (Qty. 2)		900 lbs	900 lbs	900 lbs	2400 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs
10 Anchors @ 1.67" Min. C.L. / Mullion Leg (Each Clip) (Qty. 2)		1200 lbs	1200 lbs	1200 lbs	2400 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs	1600 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

(oval) CIRCLED VALUES ARE USED IN THE EXAMPLE ON SHEET 21.

FIGURE 1: 

FIGURE 2: 

FIGURE 3: 

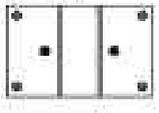
FIGURE 4: 

FIGURE 5: 



FIGURE 6: 

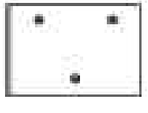


FIGURE 7: 

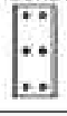
FIGURE 8: 

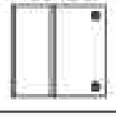
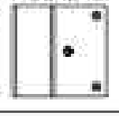
FIGURE 9: 

FIGURE 10: 

ANGLE CLIP (FIGURES 5&6) MUST BE USED IN PAIRS.

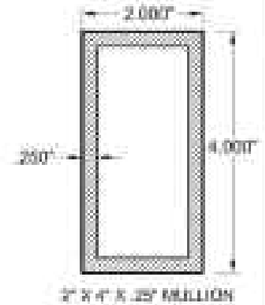
TABLE NOTES:

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2" X 4" X .25" MULLION

IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

2 X 4 X .25 MULL SPECS

Drawing No. 6300.JR

Sheet 14 OF 22

Scale: N/A

Drawn By: J ROSOWSKI

Checked By: A MORLESIN

Date: 08/29/11

Date: 03/19/26 REVISED ANCHOR TABLE

Rev. F

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 26-0401.06
Expiration Date: 05/26/2031
By: Manuel Feijo
Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

TABLE 11A

Mullion Capacity Table (psf)[1]

Opening Width (for vertically-spanning mullions) or **Opening Height** (for horizontally-spanning mullions)

2 x 6 x .25 Alum. Tube Mullion		61 in.		85 in.		73 in.		97 in.		49 in.		109 in.		121 in.		145 in.		169 in.		193 in.	
		Reinforcing Limiting	Deflection Loading	Reinforcing Limiting	Deflection Loading	Reinforcing Limiting	Deflection Loading	Reinforcing Limiting	Deflection Loading	Reinforcing Limiting	Deflection Loading	Reinforcing Limiting	Deflection Loading	Reinforcing Limiting	Deflection Loading	Reinforcing Limiting	Deflection Loading	Reinforcing Limiting	Deflection Loading	Reinforcing Limiting	Deflection Loading
Mull Length	49 in.	178.0	402	178.0	428	178.0	346	178.0	369	178.0	319	178.0	338	178.0	321	178.0	338	178.0	331	178.0	321
	61 in.	178.0	326	178.0	347	178.0	280	178.0	299	178.0	258	178.0	274	178.0	260	178.0	274	178.0	268	178.0	260
	73 in.	178.0	274	178.0	292	178.0	236	178.0	252	178.0	217	178.0	231	178.0	219	178.0	231	178.0	226	178.0	219
	85 in.	178.0	236	178.0	252	178.0	204	178.0	217	178.0	187	178.0	199	178.0	189	178.0	199	178.0	195	178.0	189
	97 in.	178.0	207	178.0	221	178.0	178	178.0	190	178.0	164	178.0	175	178.0	166	178.0	175	178.0	171	178.0	166
	109 in.	178.0	184	178.0	196	178.0	159	178.0	169	178.0	146	178.0	155	178.0	147	178.0	155	178.0	152	178.0	147
	121 in.	178.0	165	178.0	176	178.0	142	178.0	152	178.0	131	178.0	140	178.0	133	178.0	140	178.0	136	178.0	133
	133 in.	178.0	150	178.0	160	178.0	130	178.0	138	178.0	119	178.0	127	178.0	121	178.0	127	178.0	124	178.0	121
	145 in.	178.0	137	178.0	147	178.0	119	178.0	127	178.0	110	178.0	117	178.0	111	178.0	117	178.0	114	178.0	111
	157 in.	178.0	127	178.0	135	178.0	110	178.0	117	178.0	101	178.0	108	178.0	103	178.0	108	178.0	105	178.0	103
	169 in.	178.0	118	178.0	126	178.0	102	178.0	109	178.0	94	178.0	100	178.0	95	178.0	100	178.0	98	178.0	95
	181 in.	178.0	110	178.0	117	178.0	95	178.0	101	178.0	88	178.0	93	178.0	89	178.0	93	178.0	91	178.0	89
	193 in.	178.0	103	178.0	110	178.0	89	178.0	95	178.0	82	178.0	87	178.0	83	178.0	87	178.0	85	178.0	83
	205 in.	178.0	97	178.0	103	178.0	84	178.0	89	178.0	78	178.0	82	178.0	78	178.0	82	178.0	80	178.0	78
	217 in.	178.0	92	178.0	98	178.0	79	178.0	84	178.0	73	178.0	78	178.0	74	178.0	78	178.0	76	178.0	74
	229 in.	178.0	87	178.0	93	178.0	75	178.0	80	178.0	70	178.0	74	178.0	71	178.0	74	178.0	72	178.0	71
	241 in.	178.0	83	178.0	88	178.0	72	178.0	76	178.0	67	178.0	71	178.0	68	178.0	71	178.0	69	178.0	68
	253 in.	178.0	79	178.0	84	178.0	68	178.0	72	178.0	64	178.0	67	178.0	65	178.0	67	178.0	66	178.0	65
	265 in.	178.0	76	178.0	80	178.0	65	178.0	69	178.0	61	178.0	64	178.0	62	178.0	64	178.0	63	178.0	62
	277 in.	178.0	73	178.0	77	178.0	63	178.0	66	178.0	59	178.0	62	178.0	60	178.0	62	178.0	61	178.0	60
	289 in.	178.0	70	178.0	74	178.0	60	178.0	63	178.0	56	178.0	59	178.0	57	178.0	59	178.0	58	178.0	57
	301 in.	178.0	68	178.0	71	178.0	58	178.0	61	178.0	54	178.0	57	178.0	55	178.0	57	178.0	56	178.0	55
	313 in.	178.0	65	178.0	68	178.0	56	178.0	59	178.0	52	178.0	55	178.0	53	178.0	55	178.0	54	178.0	53
	325 in.	178.0	63	178.0	66	178.0	54	178.0	57	178.0	51	178.0	53	178.0	52	178.0	53	178.0	52	178.0	52
	337 in.	178.0	61	178.0	64	178.0	53	178.0	55	178.0	49	178.0	52	178.0	50	178.0	52	178.0	51	178.0	50
	349 in.	178.0	59	178.0	62	178.0	51	178.0	53	178.0	48	178.0	50	178.0	49	178.0	50	178.0	49	178.0	49
	361 in.	178.0	57	178.0	60	178.0	50	178.0	52	178.0	46	178.0	49	178.0	47	178.0	49	178.0	48	178.0	47
	373 in.	178.0	56	178.0	58	178.0	48	178.0	50	178.0	45	178.0	47	178.0	46	178.0	47	178.0	47	178.0	46
	385 in.	178.0	54	178.0	56	178.0	47	178.0	49	178.0	44	178.0	46	178.0	45	178.0	46	178.0	45	178.0	45
	397 in.	178.0	53	178.0	55	178.0	46	178.0	48	178.0	43	178.0	45	178.0	44	178.0	45	178.0	44	178.0	44
	409 in.	178.0	52	178.0	54	178.0	45	178.0	47	178.0	42	178.0	44	178.0	43	178.0	44	178.0	43	178.0	43
	421 in.	178.0	51	178.0	53	178.0	44	178.0	46	178.0	41	178.0	43	178.0	42	178.0	43	178.0	42	178.0	42
	433 in.	178.0	50	178.0	52	178.0	43	178.0	45	178.0	40	178.0	42	178.0	41	178.0	42	178.0	41	178.0	41
	445 in.	178.0	49	178.0	51	178.0	43	178.0	44	178.0	40	178.0	41	178.0	41	178.0	41	178.0	41	178.0	41
	457 in.	178.0	48	178.0	50	178.0	42	178.0	43	178.0	39	178.0	41	178.0	40	178.0	41	178.0	40	178.0	40
	469 in.	178.0	47	178.0	49	178.0	41	178.0	43	178.0	38	178.0	40	178.0	39	178.0	40	178.0	39	178.0	39
	481 in.	178.0	46	178.0	48	178.0	40	178.0	42	178.0	37	178.0	39	178.0	38	178.0	39	178.0	38	178.0	38
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	505 in.	178.0	44	178.0	46	178.0	39	178.0	40	178.0	36	178.0	38	178.0	37	178.0	38	178.0	37	178.0	37
	517 in.	178.0	44	178.0	45	178.0	38	178.0	40	178.0	35	178.0	37	178.0	36	178.0	37	178.0	36	178.0	36
	529 in.	178.0	43	178.0	45	178.0	37	178.0	39	178.0	35	178.0	36	178.0	36	178.0	36	178.0	36	178.0	36
	541 in.	178.0	42	178.0	44	178.0	37	178.0	38	178.0	34	178.0	36	178.0	35	178.0	36	178.0	35	178.0	35
	553 in.	178.0	42	178.0	43	178.0	36	178.0	38	178.0	34	178.0	35	178.0	35	178.0	35	178.0	35	178.0	35
	565 in.	178.0	41	178.0	43	178.0	36	178.0	37	178.0	33	178.0	35	178.0	34	178.0	35	178.0	34	178.0	34
	577 in.	178.0	41	178.0	42	178.0	35	178.0	37	178.0	33	178.0	34	178.0	34	178.0	34	178.0	34	178.0	34
	589 in.	178.0	40	178.0	42	178.0	35	178.0	36	178.0	32	178.0	34	178.0	33	178.0	34	178.0	33	178.0	33
	601 in.	178.0	40	178.0	41	178.0	34	178.0	36	178.0	32	178.0	33	178.0	33	178.0	33	178.0	33	178.0	33

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req'd}) \times \left(\frac{\text{ANCHOR CAP}_{\text{actual}}}{\text{MULLION CAP}_{\text{actual}}}\right) = \text{ANCHOR CAP}_{req'd}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 11B

Anchor Capacity Size:	Substrate	Perimeter				Mullion	Mullion to Wall				Clips		Steel		
	Material Type	1/4" Diameter Fastener		1/4" Diameter Fastener		3/16" Diameter Fastener	1/4" Diameter Fastener		1/4" Diameter Fastener		1/4" Diameter Fastener	5/16" Diameter Fastener	1/4" Diameter Fastener		
	Edge Distance (in.)	1"	2-1/2"	1"	2-1/2"	0.5"	1"	2-1/2"	1"	2-1/2"	3"	2-1/2"	3"	0.25"	0.25"
	Embedment (in.)	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	1.25"	1.25"
1 Anchor @ 4" from End	8" Hollow CMU (Grout Filled Cores)	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	N/A	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs
2 Anchors @ 4" & 12" from End	8" Hollow CMU (Grout Filled Cores)	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	N/A	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs
3 Anchors @ 4", 12" & 20" from End	8" Hollow CMU (Grout Filled Cores)	3,000 lbs	3,000 lbs	3,000 lbs	3,000 lbs	N/A	3,000 lbs	3,000 lbs	3,000 lbs	3,000 lbs	3,000 lbs	3,000 lbs	3,000 lbs	3,000 lbs	3,000 lbs
4 Anchors @ 4", 12", 20" & 28" from End	8" Hollow CMU (Grout Filled Cores)	4,000 lbs	4,000 lbs	4,000 lbs	4,000 lbs	N/A	4,000 lbs	4,000 lbs	4,000 lbs	4,000 lbs	4,000 lbs	4,000 lbs	4,000 lbs	4,000 lbs	4,000 lbs
2 Anchors @ 4" & 12" from End	8" Solid CMU	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	N/A	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs	1,000 lbs
3 Anchors @ 4", 12" & 20" from End	8" Solid CMU	1,500 lbs	1,500 lbs	1,500 lbs	1,500 lbs	N/A	1,500 lbs	1,500 lbs	1,500 lbs	1,500 lbs	1,500 lbs	1,500 lbs	1,500 lbs	1,500 lbs	1,500 lbs
4 Anchors @ 4", 12", 20" & 28" from End	8" Solid CMU	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	N/A	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs	2,000 lbs
2 Anchors @ 4" & 12" from End	6" Wood Stud	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3 Anchors @ 4", 12" & 20" from End	6" Wood Stud	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2 Anchors @ 4" & 12" from End	6" Steel Stud	500 lbs	500 lbs	500 lbs	500 lbs	500 lbs	500 lbs	500 lbs	500 lbs	500 lbs	500 lbs	500 lbs	500 lbs	500 lbs	500 lbs
3 Anchors @ 4", 12" & 20" from End	6" Steel Stud	750 lbs	750 lbs	750 lbs	750 lbs	750 lbs	750 lbs	750 lbs	750 lbs	750 lbs	750 lbs	750 lbs	750 lbs	750 lbs	750 lbs

NOTE: FOR THE OFFSET CLIP, USE THE SAME ANCHOR PATTERN AND ANCHOR VALUES AS THE STANDARD CLIP.

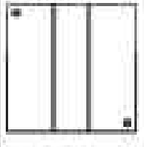
FIGURE 1: 

FIGURE 2: 

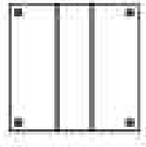
FIGURE 3: 

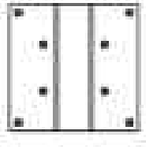
FIGURE 4: 

FIGURE 9: 

FIGURE 8: 

FIGURE 10: 

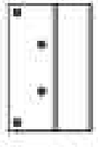
FIGURE 11: 

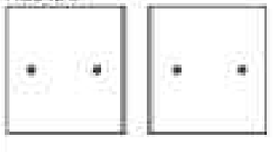
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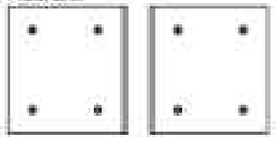
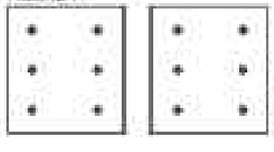
FIGURE 6: 

FIGURE 7: 

ANGLE CLIP (FIGURES 5 - 7) MUST BE USED IN PAIRS.

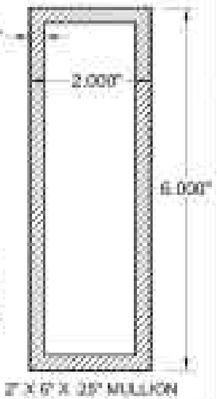
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

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2" X 6" X .25" MULLION

DCI
Custom Windows and Doors
3800 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
2 X 6 X .25 MULL SPECS
Drawing No. 6300JR
Sheet 15 OF 22
Scale N/A
Checked By A MORLESIN
Date 08/29/11
Rev. F
Drawn By J ROSOWSKI
Date 03/19/26
REVISED ANCHOR TABLE

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 25-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/21/25
A LYNN MILLER, P.E.
P.E.# 58705

TABLE 12A

Maximum Capacity Table (lbs/ft²)

Opening **Width** (for vertically-spanning mullions) or Opening **Height** (for horizontally-spanning mullions)

5.25" 30 DEG AL BAY MULL	60 in				72 in				84 in				96 in				108 in				120 in				132 in				144 in				156 in				168 in			
	Rectangular Loading		Trapezoidal Loading		Rectangular Loading		Trapezoidal Loading		Rectangular Loading		Trapezoidal Loading		Rectangular Loading		Trapezoidal Loading		Rectangular Loading		Trapezoidal Loading		Rectangular Loading		Trapezoidal Loading		Rectangular Loading		Trapezoidal Loading		Rectangular Loading		Trapezoidal Loading		Rectangular Loading		Trapezoidal Loading		Rectangular Loading		Trapezoidal Loading	
Mull Length	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)	Positive Capacity (psf)	Negative Capacity (psf)
42 in	170.0	402	170.0	402	170.0	348	170.0	348	170.0	302	170.0	302	170.0	265	170.0	265	170.0	234	170.0	234	170.0	207	170.0	207	170.0	184	170.0	184	170.0	165	170.0	165	170.0	148	170.0	148	170.0	134	170.0	134
48 in	170.0	351	170.0	351	170.0	304	170.0	304	170.0	264	170.0	264	170.0	232	170.0	232	170.0	204	170.0	204	170.0	181	170.0	181	170.0	161	170.0	161	170.0	144	170.0	144	170.0	130	170.0	130	170.0	117	170.0	117
54.834 in	170.0	312	170.0	312	170.0	270	170.0	270	170.0	234	170.0	234	170.0	206	170.0	206	170.0	181	170.0	181	170.0	161	170.0	161	170.0	143	170.0	143	170.0	128	170.0	128	170.0	116	170.0	116	170.0	104	170.0	104
60 in	170.0	282	170.0	282	170.0	244	170.0	244	170.0	211	170.0	211	170.0	186	170.0	186	170.0	163	170.0	163	170.0	145	170.0	145	170.0	129	170.0	129	170.0	116	170.0	116	170.0	104	170.0	104	170.0	94	170.0	94
66 in	170.0	256	170.0	256	170.0	222	170.0	222	170.0	192	170.0	192	170.0	169	170.0	169	170.0	149	170.0	149	170.0	132	170.0	132	170.0	118	170.0	118	170.0	106	170.0	106	170.0	95	170.0	95	170.0	86	170.0	86
72 in	170.0	235	170.0	235	170.0	204	170.0	204	170.0	176	170.0	176	170.0	155	170.0	155	170.0	137	170.0	137	170.0	121	170.0	121	170.0	108	170.0	108	170.0	97	170.0	97	170.0	87	170.0	87	170.0	79	170.0	79
78 in	170.0	217	170.0	217	170.0	188	170.0	188	170.0	163	170.0	163	170.0	143	170.0	143	170.0	127	170.0	127	170.0	112	170.0	112	170.0	100	170.0	100	170.0	90	170.0	90	170.0	81	170.0	81	170.0	73	170.0	73
84 in	170.0	202	170.0	202	170.0	175	170.0	175	170.0	152	170.0	152	170.0	133	170.0	133	170.0	118	170.0	118	170.0	105	170.0	105	170.0	94	170.0	94	170.0	84	170.0	84	170.0	76	170.0	76	170.0	68	170.0	68
90 in	170.0	189	170.0	189	170.0	164	170.0	164	170.0	142	170.0	142	170.0	125	170.0	125	170.0	111	170.0	111	170.0	98	170.0	98	170.0	88	170.0	88	170.0	79	170.0	79	170.0	71	170.0	71	170.0	64	170.0	64
96 in	170.0	177	170.0	177	170.0	154	170.0	154	170.0	133	170.0	133	170.0	117	170.0	117	170.0	104	170.0	104	170.0	92	170.0	92	170.0	83	170.0	83	170.0	74	170.0	74	170.0	67	170.0	67	170.0	60	170.0	60
102 in	170.0	167	170.0	167	170.0	145	170.0	145	170.0	126	170.0	126	170.0	111	170.0	111	170.0	98	170.0	98	170.0	87	170.0	87	170.0	78	170.0	78	170.0	70	170.0	70	170.0	63	170.0	63	170.0	57	170.0	57
108 in	170.0	158	170.0	158	170.0	138	170.0	138	170.0	120	170.0	120	170.0	106	170.0	106	170.0	93	170.0	93	170.0	83	170.0	83	170.0	74	170.0	74	170.0	67	170.0	67	170.0	60	170.0	60	170.0	54	170.0	54
114 in	170.0	150	170.0	150	170.0	131	170.0	131	170.0	114	170.0	114	170.0	101	170.0	101	170.0	89	170.0	89	170.0	79	170.0	79	170.0	71	170.0	71	170.0	64	170.0	64	170.0	57	170.0	57	170.0	52	170.0	52
120 in	170.0	143	170.0	143	170.0	125	170.0	125	170.0	109	170.0	109	170.0	96	170.0	96	170.0	85	170.0	85	170.0	76	170.0	76	170.0	68	170.0	68	170.0	61	170.0	61	170.0	55	170.0	55	170.0	50	170.0	50
126 in	170.0	136	170.0	136	170.0	119	170.0	119	170.0	104	170.0	104	170.0	92	170.0	92	170.0	82	170.0	82	170.0	73	170.0	73	170.0	65	170.0	65	170.0	59	170.0	59	170.0	53	170.0	53	170.0	48	170.0	48
132 in	170.0	130	170.0	130	170.0	114	170.0	114	170.0	100	170.0	100	170.0	88	170.0	88	170.0	78	170.0	78	170.0	70	170.0	70	170.0	63	170.0	63	170.0	56	170.0	56	170.0	51	170.0	51	170.0	46	170.0	46
138 in	170.0	125	170.0	125	170.0	109	170.0	109	170.0	96	170.0	96	170.0	85	170.0	85	170.0	75	170.0	75	170.0	67	170.0	67	170.0	60	170.0	60	170.0	54	170.0	54	170.0	49	170.0	49	170.0	44	170.0	44
144 in	170.0	120	170.0	120	170.0	105	170.0	105	170.0	92	170.0	92	170.0	82	170.0	82	170.0	72	170.0	72	170.0	64	170.0	64	170.0	58	170.0	58	170.0	52	170.0	52	170.0	47	170.0	47	170.0	43	170.0	43

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req'd}) \times \left(\frac{\text{ANCHOR CAP}_{req'd}}{\text{MULLION CAP}_{req'd}}\right) = \text{ANCHOR CAP}_{req'd}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 12B

Anchor Capacity (lbs)	Anchor Type	Substrate	3) Concrete		4) Wood	Holes in Steel (Qty)				Steel Clips	Wood		Metal	
		Minimum Thickness	3/16" Dia Hex Tapcon Embedment	1/4" Dia Hex Tapcon Embedment	5/16" Dia Lag Screw Embedment	1/4" Dia Hex Tapcon Embedment	1/4" Dia Hex Tapcon Embedment	1/4" Dia Countersunk Machine Screw	5/16" Dia Hex Tapcon Embedment	1/4" Dia Hex Tapcon Embedment	#10 Screw Minimum Edge Distance	#12 Screw Minimum Edge Distance	#10 Screw Minimum Edge Distance	#12 Screw Minimum Edge Distance
		Edge Distance (in)	1"	1-1/2"	1"	2-1/2"	1"	2-1/2"	3"	2-1/2"	3"	1-1/8"	2-3/4"	1-1/8"
		Center-to-Center (in)	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1"	4-1/4"	1-3/4"	4-1/4"	4"	1-1/2"	4-1/4"	1-1/2"
2 Anchors @ 3" Min. C-C	(2) #10 Angle Clips - Fig. 1	350 lbs	490 lbs	350 lbs	510 lbs	510 lbs	210 lbs	210 lbs	350 lbs	490 lbs	210 lbs	140 lbs	140 lbs	350 lbs
4 Anchors @ 3" Min. C-C	(2) #10 Angle Clips - Fig. 2	1,050 lbs	1,960 lbs	840 lbs	1,020 lbs	1,020 lbs	420 lbs	420 lbs	840 lbs	1,960 lbs	420 lbs	280 lbs	560 lbs	1,120 lbs
6 Anchors @ 3" Min. C-C	(2) #10 Angle Clips - Fig. 3	1,050 lbs	1,960 lbs	840 lbs	1,020 lbs	1,020 lbs	420 lbs	420 lbs	840 lbs	1,960 lbs	420 lbs	280 lbs	560 lbs	1,120 lbs

FIGURE 1:

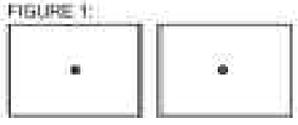


FIGURE 2:

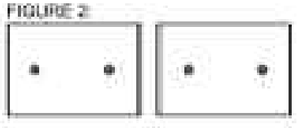
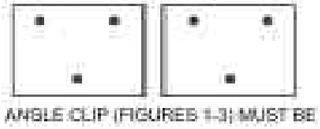


FIGURE 3:



ANGLE CLIP (FIGURES 1-3) MUST BE USED IN PAIRS.

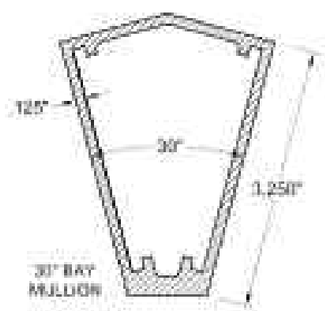
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL HAVE A MIN. SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .125" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

30 DEGREE BAY MULL SPECS

Drawing No. 6300JR

Sheet 16 OF 22

Scale N/A

Date 08/29/11

Drawn By J.ROSOWSKI

Checked By A.MORLESIN

Date 03/19/26

REVISED ANCHOR TABLE

Rev F

PRODUCT REVISED
As complying with the Florida Building Code
NOA No. 25-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/21/25
A LYNN MILLER, P.E.
P.E.# 58705

TABLE 13A

3.25" 45 DEC. AL BAY MULL

Maximum Capacity Table (lbs/ft²)

Opening Width (for vertically-spanning mullions) or **Opening Height** (for horizontally-spanning mullions)

Mull Length	30 in.				36 in.				48 in.				60 in.				72 in.				84 in.				96 in.				108 in.				120 in.			
	Positive Load		Negative Load		Positive Load		Negative Load		Positive Load		Negative Load		Positive Load		Negative Load		Positive Load		Negative Load		Positive Load		Negative Load		Positive Load		Negative Load		Positive Load		Negative Load		Positive Load		Negative Load	
	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)	Mullion Capacity (lbs/ft²)	Anchor Capacity (lbs/ft²)
48 in.	170.0	420	170.0	420	170.0	348	170.0	348	170.0	260	170.0	260	170.0	208	170.0	208	170.0	174	170.0	174	170.0	149	170.0	149	170.0	130	170.0	130	170.0	116	170.0	116	170.0	104	170.0	104
60 in.	140.0	329	140.0	329	139.9	336	139.9	336	139.9	262	139.9	262	139.9	210	139.9	210	139.9	175	139.9	175	139.9	150	139.9	150	139.9	131	139.9	131	139.9	117	139.9	117	139.9	105	139.9	105
72 in.	119.0	280	119.0	280	119.0	286	119.0	286	119.0	223	119.0	223	119.0	179	119.0	179	119.0	149	119.0	149	119.0	128	119.0	128	119.0	112	119.0	112	119.0	99.5	119.0	99.5	119.0	89.3	119.0	89.3
84 in.	102.9	241	102.9	241	102.9	247	102.9	247	102.9	192	102.9	192	102.9	154	102.9	154	102.9	128	102.9	128	102.9	110	102.9	110	102.9	96.4	102.9	96.4	102.9	85.7	102.9	85.7	102.9	77.1	102.9	77.1
96 in.	90.0	211	90.0	211	90.0	216	90.0	216	90.0	168	90.0	168	90.0	135	90.0	135	90.0	112	90.0	112	90.0	96.4	90.0	96.4	90.0	84.4	90.0	84.4	90.0	75.0	90.0	75.0	90.0	67.5	90.0	67.5
108 in.	80.0	187	80.0	187	80.0	192	80.0	192	80.0	149	80.0	149	80.0	120	80.0	120	80.0	100	80.0	100	80.0	85.7	80.0	85.7	80.0	75.0	80.0	75.0	80.0	66.7	80.0	66.7	80.0	60.0	80.0	60.0
120 in.	72.0	168	72.0	168	72.0	173	72.0	173	72.0	134	72.0	134	72.0	108	72.0	108	72.0	90.0	72.0	90.0	72.0	77.1	72.0	77.1	72.0	67.5	72.0	67.5	72.0	60.0	72.0	60.0	72.0	54.0	72.0	54.0
132 in.	65.5	153	65.5	153	65.5	157	65.5	157	65.5	122	65.5	122	65.5	98.2	65.5	98.2	65.5	81.8	65.5	81.8	65.5	70.1	65.5	70.1	65.5	61.4	65.5	61.4	65.5	54.5	65.5	54.5	65.5	49.1	65.5	49.1
144 in.	60.0	140	60.0	140	60.0	144	60.0	144	60.0	112	60.0	112	60.0	90.0	60.0	90.0	60.0	75.0	60.0	75.0	60.0	64.3	60.0	64.3	60.0	56.3	60.0	56.3	60.0	50.0	60.0	50.0	60.0	45.0	60.0	45.0
156 in.	55.4	129	55.4	129	55.4	133	55.4	133	55.4	103	55.4	103	55.4	83.1	55.4	83.1	55.4	69.2	55.4	69.2	55.4	59.3	55.4	59.3	55.4	51.9	55.4	51.9	55.4	46.2	55.4	46.2	55.4	41.5	55.4	41.5
168 in.	51.4	120	51.4	120	51.4	123	51.4	123	51.4	96.0	51.4	96.0	51.4	77.1	51.4	77.1	51.4	64.3	51.4	64.3	51.4	55.1	51.4	55.1	51.4	48.2	51.4	48.2	51.4	42.9	51.4	42.9	51.4	38.6	51.4	38.6
180 in.	48.0	112	48.0	112	48.0	115	48.0	115	48.0	89.6	48.0	89.6	48.0	72.0	48.0	72.0	48.0	60.0	48.0	60.0	48.0	51.4	48.0	51.4	48.0	45.0	48.0	45.0	48.0	40.0	48.0	40.0	48.0	36.0	48.0	36.0
192 in.	45.0	105	45.0	105	45.0	108	45.0	108	45.0	84.0	45.0	84.0	45.0	67.5	45.0	67.5	45.0	56.3	45.0	56.3	45.0	48.2	45.0	48.2	45.0	42.2	45.0	42.2	45.0	37.5	45.0	37.5	45.0	33.8	45.0	33.8
204 in.	42.4	98.8	42.4	98.8	42.4	102	42.4	102	42.4	79.1	42.4	79.1	42.4	63.5	42.4	63.5	42.4	52.9	42.4	52.9	42.4	45.4	42.4	45.4	42.4	39.7	42.4	39.7	42.4	35.3	42.4	35.3	42.4	31.8	42.4	31.8
216 in.	40.0	93.3	40.0	93.3	40.0	96.0	40.0	96.0	40.0	74.7	40.0	74.7	40.0	59.9	40.0	59.9	40.0	49.9	40.0	49.9	40.0	42.8	40.0	42.8	40.0	37.5	40.0	37.5	40.0	33.3	40.0	33.3	40.0	30.0	40.0	30.0
228 in.	37.9	88.4	37.9	88.4	37.9	91.0	37.9	91.0	37.9	70.8	37.9	70.8	37.9	56.7	37.9	56.7	37.9	47.3	37.9	47.3	37.9	40.5	37.9	40.5	37.9	35.4	37.9	35.4	37.9	31.5	37.9	31.5	37.9	28.4	37.9	28.4
240 in.	36.0	84.0	36.0	84.0	36.0	86.4	36.0	86.4	36.0	67.2	36.0	67.2	36.0	53.9	36.0	53.9	36.0	44.9	36.0	44.9	36.0	38.5	36.0	38.5	36.0	33.6	36.0	33.6	36.0	29.9	36.0	29.9	36.0	27.0	36.0	27.0
252 in.	34.3	80.0	34.3	80.0	34.3	82.3	34.3	82.3	34.3	64.0	34.3	64.0	34.3	51.4	34.3	51.4	34.3	42.8	34.3	42.8	34.3	36.7	34.3	36.7	34.3	32.1	34.3	32.1	34.3	28.6	34.3	28.6	34.3	25.7	34.3	25.7
264 in.	32.7	76.3	32.7	76.3	32.7	78.5	32.7	78.5	32.7	61.1	32.7	61.1	32.7	49.0	32.7	49.0	32.7	40.8	32.7	40.8	32.7	35.0	32.7	35.0	32.7	30.6	32.7	30.6	32.7	27.2	32.7	27.2	32.7	24.5	32.7	24.5
276 in.	31.3	73.0	31.3	73.0	31.3	75.1	31.3	75.1	31.3	58.4	31.3	58.4	31.3	46.9	31.3	46.9	31.3	39.1	31.3	39.1	31.3	33.5	31.3	33.5	31.3	29.3	31.3	29.3	31.3	26.0	31.3	26.0	31.3	23.4	31.3	23.4
288 in.	30.0	70.0	30.0	70.0	30.0	72.0	30.0	72.0	30.0	56.0	30.0	56.0	30.0	45.0	30.0	45.0	30.0	37.5	30.0	37.5	30.0	32.1	30.0	32.1	30.0	28.1	30.0	28.1	30.0	25.0	30.0	25.0	30.0	22.5	30.0	22.5
300 in.	28.8	67.2	28.8	67.2	28.8	69.1	28.8	69.1	28.8	53.8	28.8	53.8	28.8	43.2	28.8	43.2	28.8	36.0	28.8	36.0	28.8	30.8	28.8	30.8	28.8	27.0	28.8	27.0	28.8	24.0	28.8	24.0	28.8	21.6	28.8	21.6
312 in.	27.7	64.6	27.7	64.6	27.7	66.4	27.7	66.4	27.7	51.7	27.7	51.7	27.7	41.5	27.7	41.5	27.7	34.6	27.7	34.6	27.7	29.6	27.7	29.6	27.7	25.9	27.7	25.9	27.7	23.1	27.7	23.1	27.7	20.8	27.7	20.8
324 in.	26.7	62.2	26.7	62.2	26.7	63.9	26.7	63.9	26.7	49.7	26.7	49.7	26.7	39.9	26.7	39.9	26.7	33.3	26.7	33.3	26.7	28.5	26.7	28.5	26.7	24.9	26.7	24.9	26.7	22.2	26.7	22.2	26.7	20.0	26.7	20.0
336 in.	25.7	59.9	25.7	59.9	25.7	61.5	25.7	61.5	25.7	47.9	25.7	47.9	25.7	38.4	25.7	38.4	25.7	32.0	25.7	32.0	25.7	27.4	25.7	27.4	25.7	24.0	25.7	24.0	25.7	21.3	25.7	21.3	25.7	19.2	25.7	19.2
348 in.	24.8	57.8	24.8	57.8	24.8	59.3	24.8	59.3	24.8	46.2	24.8	46.2	24.8	37.0	24.8	37.0	24.8	30.8	24.8	30.8	24.8	26.4	24.8	26.4	24.8	23.1	24.8	23.1	24.8	20.6	24.8	20.6	24.8	18.5	24.8	18.5
360 in.	24.0	55.9	24.0	55.9	24.0	57.4	24.0	57.4	24.0	44.7	24.0	44.7	24.0	35.8	24.0	35.8	24.0	29.8	24.0	29.8	24.0	25.5	24.0	25.5	24.0	22.4	24.0	22.4	24.0	19.9	24.0	19.9	24.0	17.9	24.0	17.9

ANCHOR CAPACITY ADJUSTMENT FORMULA:

$$(DP_{req.}) \times \left(\frac{\text{ANCHOR CAP. ____}}{\text{MULLION CAP. ____}}\right) = \text{ANCHOR CAP.}_{req.}$$

USE THIS FORMULA TO OBTAIN THE "ANCHOR CAPACITY REQUIRED" CORRESPONDING TO AN ACTUAL PRESSURE REQUIREMENT FOR THE OPENING, WHEN IT IS LOWER THAN THE MULLION CAPACITY (FROM THE TABLE) OF THE SELECTED MULLION. IT WILL YIELD A MINIMUM ANCHOR CAPACITY WHICH MAY BE USED TO QUALIFY ADDITIONAL ANCHOR OPTIONS FROM THE ANCHOR CAPACITY TABLE.

TABLE 13B

Anchor Capacity (lbs)	Substrate	3) Concrete		Min. Dim.	Holes in Mull (Qty)					Fastener Qty	Wood		Steel
	Anchor Type	1/4" Dia. Lag Screw (Minimum)	1/4" Dia. Wedge Anchor (Minimum)	A) 5" Edge to Fastener (Minimum)	1/4" Dia. Bolt (Minimum)		#8 Screw (Minimum)		#10 Screw (Minimum)	B) 10" Edge to Fastener (Minimum)		#8 Screw (Screw Size)	#10 Screw (Screw Size)	#12 Screw (Screw Size)
	Edge Distance (in.)	1"	5-1/2"	1"	2-1/2"	3-1/4"	1"	2-1/2"	1"	5-1/2"	2"	1-1/4"	2-1/4"	2-1/2"
	Embedment (in.)	1-1/4"	1-1/4"	1-3/4"	1"	1"	1-1/4"	1-1/4"	1-3/4"	1-1/4"	1"	1"	1-5/8"	above
2 Anchors @ 2" from End (1 per Angle Clip) - Fig. 1		100 lbs	100 lbs	220 lbs	100 lbs	100 lbs	220 lbs	220 lbs	220 lbs	220 lbs	2	100 lbs	220 lbs	220 lbs
4 Anchors @ 2" from End (2 per Angle Clip) - Fig. 2		200 lbs	200 lbs	440 lbs	200 lbs	200 lbs	440 lbs	440 lbs	440 lbs	440 lbs	4	200 lbs	440 lbs	440 lbs
6 Anchors @ 2" from End (3 per Angle Clip) - Fig. 3		300 lbs	300 lbs	660 lbs	300 lbs	300 lbs	660 lbs	660 lbs	660 lbs	660 lbs	6	300 lbs	660 lbs	660 lbs

FIGURE 1:

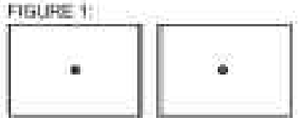


FIGURE 2:

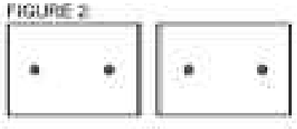
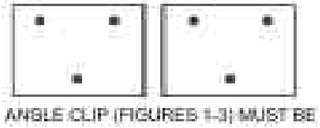


FIGURE 3:



ANGLE CLIP (FIGURES 1-3) MUST BE USED IN PAIRS.

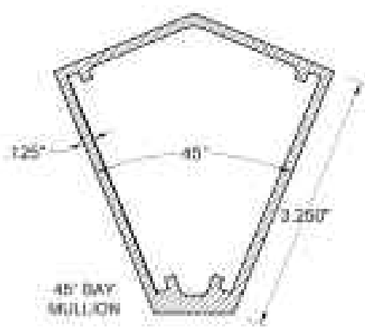
TABLE NOTES:

1) SEE SHEET 1 FOR INSTRUCTIONS ON USING THE TABLES AND SHEET 22 FOR INFORMATION ON LOADING. SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

2) LINEAR INTERPOLATION BETWEEN MULL LENGTHS AND/OR OPENING WIDTHS IS ALLOWABLE.

3) MULLION AND MULLION CLIPS SHOWN ARE NOT TO SCALE. FOR EXACT DIMENSIONS, SEE SHEETS 18-20. HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS SHOWN ON SHEETS 18-20. FIGURES SHOW SUGGESTED, APPROXIMATE HOLE LOCATIONS.

4) SUBSTRATES: CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS. HOLLOW AND GROUT-FILLED CONCRETE BLOCK UNIT (CMU) SHALL CONFORM TO ASTM C-90. WOOD SHALL HAVE A MIN. SG OF 0.55. ALUMINUM SHALL BE 6063-T5 AND BE A MINIMUM OF .125" THICK. STEEL STUDS TO BE A MINIMUM GRADE 33 AND .045" THICK (18 GAUGE). STRUCTURAL STEEL TO BE AT LEAST .120" THICK AND A36. ALL ANCHORS INTO METAL SHALL EXTEND AT LEAST 3 SCREW THREADS BEYOND THE MATERIAL. #10 & #12 ANCHORS INTO WOOD MAY BE STEEL, 18-8 S.S. OR 410 S.S.



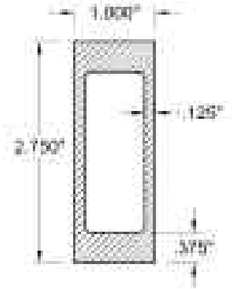
DCI
Custom Windows and Doors
3600 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Drawing Title: 45 DEGREE BAY MULL SPECS
Series: N/A
Drawing No.: 6300JR
Sheet: 17 OF 22
Scale: N/A
Checked By: J.ROSOWSKI
Date: 08/29/11
Checked By:
Date:
Revision: F
Drawn By: A.MORLESIN
Date: 03/19/26
Revision Notes: REVISED ANCHOR TABLE

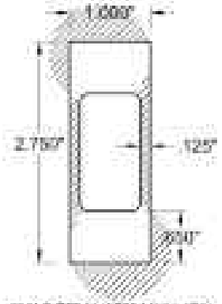
PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 25-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

ANTHONY LYNN MILLER LICENSE No. 58705 05/31/25 STATE OF FLORIDA PROFESSIONAL ENGINEER

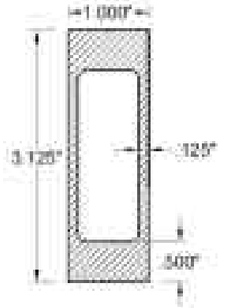
A LYNN MILLER, P.E.
P.E.# 58705



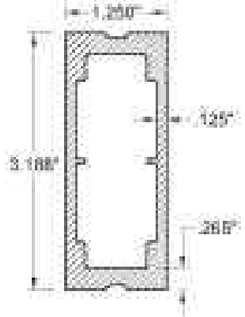
1" X 2.75" X .375" MULLION
6063-T6 ALUM.
X-SECTION



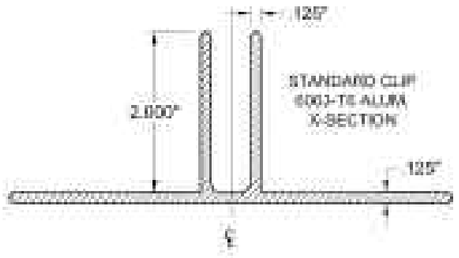
1" X 2.75" X .650" MULLION
6063-T6 ALUM.
X-SECTION



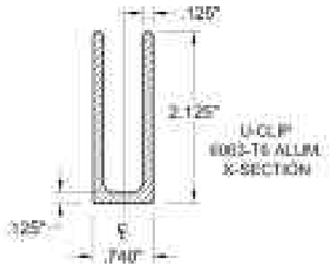
1" X 3.125" X .5" MULLION
6063-T5 ALUM.
X-SECTION



1.25" X 3.188" X .265" MULLION
6063-T6 ALUM.
X-SECTION



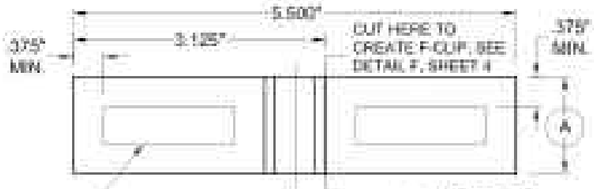
STANDARD CLIP
6063-T6 ALUM.
X-SECTION



U-CLIP
6063-T6 ALUM.
X-SECTION

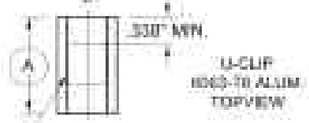


2X5 ANGLE CLIP
6063-T6 ALUM.
X-SECTION



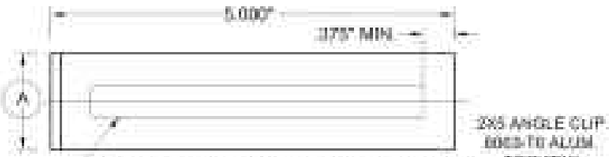
STANDARD CLIP
6063-T6 ALUM.
TOP VIEW

CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 5-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".



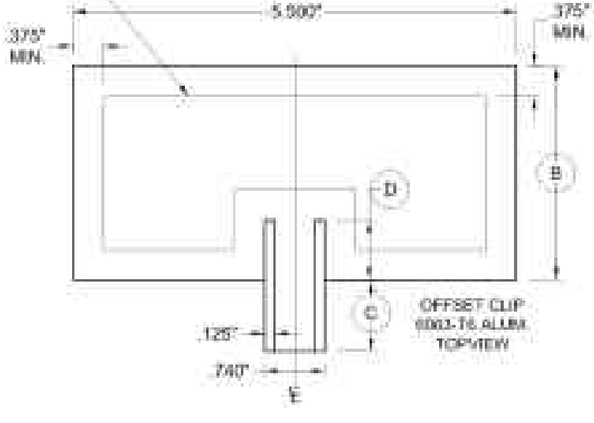
U-CLIP
6063-T6 ALUM.
TOP VIEW

CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 5-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".



2X5 ANGLE CLIP
6063-T6 ALUM.
TOP VIEW

CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 5-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".



OFFSET CLIP
6063-T6 ALUM.
TOP VIEW

TABLE A

Dimension	Value (in)	For Mullion:
A	1.870	1" X 2.75" X .375 Aluminum Tube Mullion
B	3.000	
C	0.750	
D	1.116	
A	1.312	1" X 2.75" X .650" Aluminum Tube Mullion
B	3.000	
C	0.470	
D	0.836	
A	2.000	1" X 3.125" X .500" Alum Tube Mull
B	3.630	
C	0.485	
D	1.139	
A	2.675	1.25" X 3.188" X .265" Alum Tube Mull
B	3.250	
C	0.850	
D	1.720	

TABLE B

Mull Dimension (sheet #)	PGT Part #				
	Mullion	Std. Clip	Offset Clip	U-Clip	Angle Clip
1" X 2.75" X .375" (4)	69697	0M[illegible]3M	69811230U	69824[illegible]M	96[illegible]234
1" X 2.75" X .650" (6)	69696	9968[illegible]8M	69811[illegible]M	69824[illegible]	9690[illegible]45
1" X 3.125" X .500" (8)	69697M	9951[illegible]8M	69811[illegible]4M	69824[illegible]M	69[illegible]8M
1.25" X 3.188" X .265" (12)	96[illegible]41	9921[illegible]7M	69811[illegible]3U	69824[illegible]M	96[illegible]5M

NOTES:

1) HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS GIVEN ON THIS SHEET.

2) SEE SHEETS 5-17 FOR SUGGESTED, APPROXIMATE HOLE LOCATIONS & ANCHOR O.C. DISTANCE.

3) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

PGT
Custom Windows and Doors
3800 PGT Custom Drive
N. Venice, FL 34275
(941) 486-0600
registration #2038

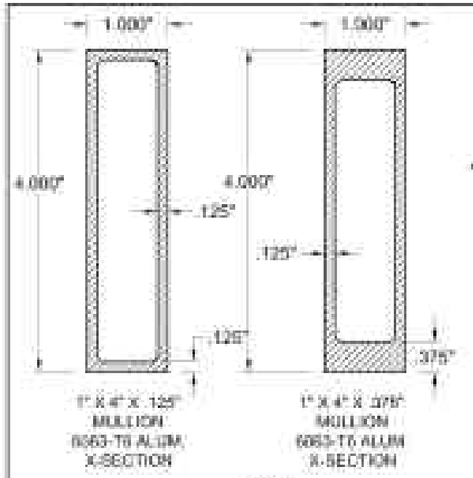
IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

MULLION AND CLIP DIMENSIONS A

Drawn By: J.ROSOWSKI | Date: 08/20/11 | Drawing No.: 6300JR | Sheet: 18 OF 22
Designed By: A.MORLESIN | Date: 03/19/26 | Checked By: | Date: | Rev: F
Description: REMOVED FIN MULLION.

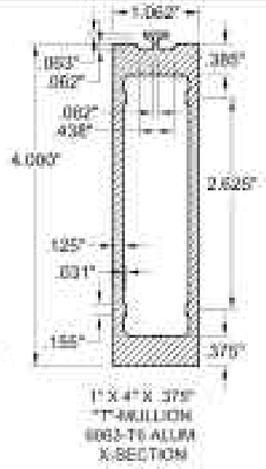
PRODUCT REVISED
As complying with the Florida Building Code
NOA No. 25-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

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

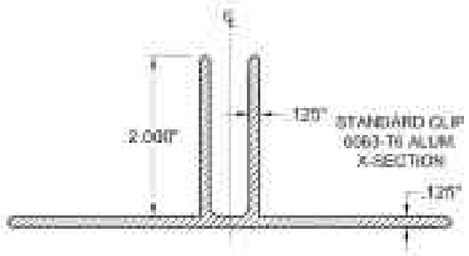


1" X 4" X .125" MULLION 6063-T6 ALUM. X-SECTION

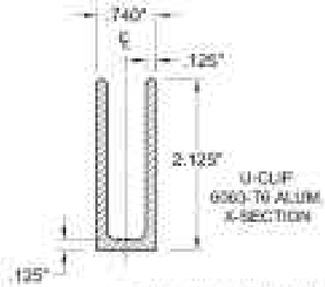
1" X 4" X .375" MULLION 6063-T6 ALUM X-SECTION



1" X 4" X .375" "T"-MULLION 6063-T6 ALUM X-SECTION



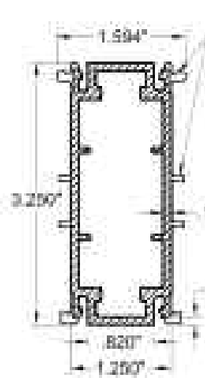
STANDARD CLIP 6063-T6 ALUM. X-SECTION



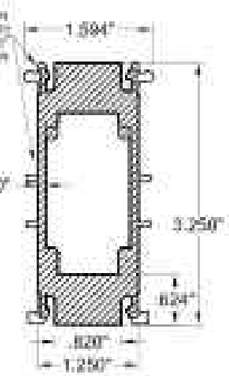
U-CUF 6063-T6 ALUM. X-SECTION



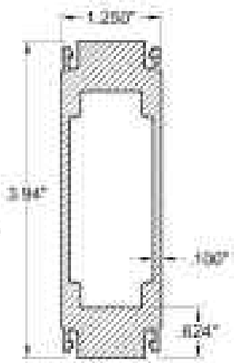
2X5 ANGLE CLIP 6063-T6 ALUM. X-SECTION



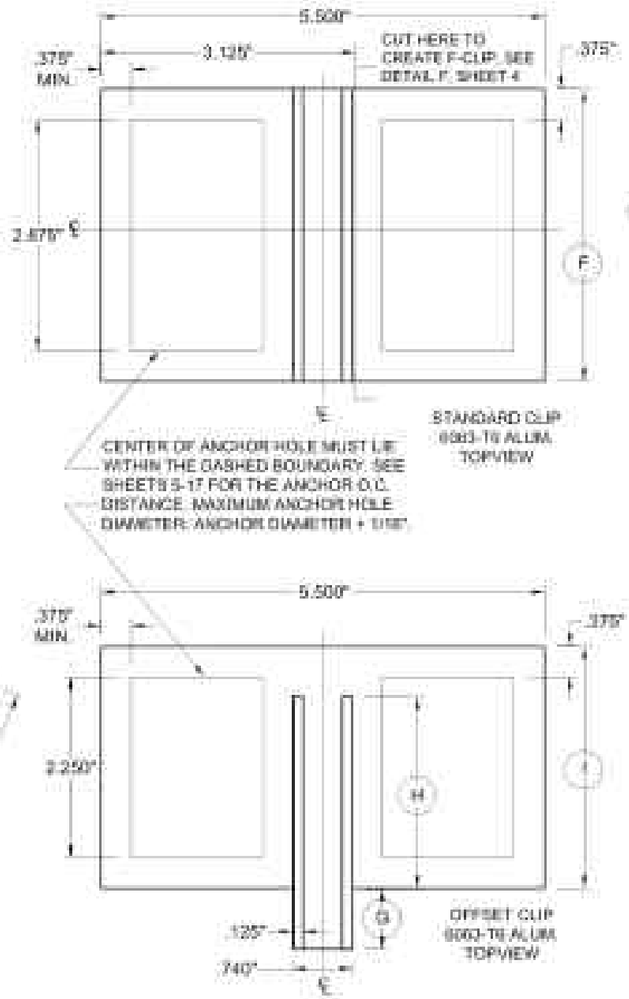
1.25" X 3.25" X .100" MULLION 6005-T5 ALUM. X-SECTION



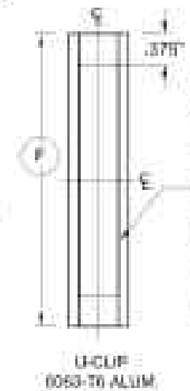
1.25" X 3.25" X .624" MULLION 6005-T5 ALUM. X-SECTION



1.25" X 3.94" X .624" MULLION 6005-T5 ALUM. X-SECTION

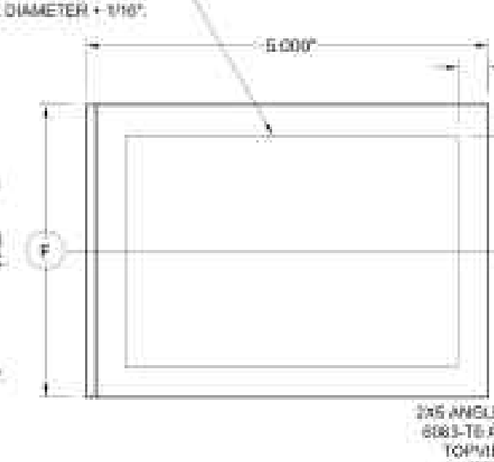


STANDARD CLIP 6063-T6 ALUM. TOPVIEW

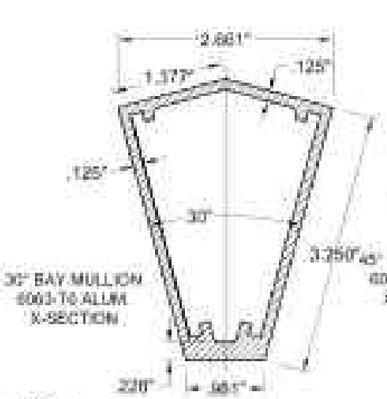


U-CLIP 6053-T6 ALUM. TOPVIEW

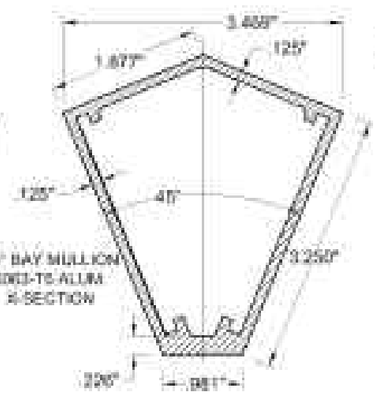
CENTER OF ANCHOR HOLE MUST LIE WITHIN THE DASHED BOUNDARY. SEE SHEETS 5-17 FOR THE ANCHOR O.C. DISTANCE. MAXIMUM ANCHOR HOLE DIAMETER: ANCHOR DIAMETER + 1/16".



2X5 ANGLE CLIP 6063-T6 ALUM TOPVIEW



30° BAY MULLION 6063-T6 ALUM. X-SECTION



45° BAY MULLION 6063-T6 ALUM. X-SECTION

OFFSET CLIP 6063-T6 ALUM. TOPVIEW

NOTES:

1) HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS GIVEN ON THIS SHEET.

2) SEE SHEETS 5-17 FOR SUGGESTED, APPROXIMATE HOLE LOCATIONS.

3) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

TABLE C

Dimension	Value (in)	For Mullion:
C	2.681"	1" X 4" X
R	1.669"	135°
W	2.669"	Aluminum
T	3.000"	Tube Mullion
S	3.167"	1" X 4" X
SS	0.757"	30°
H	2.439"	Aluminum
T	3.000"	Tube X "T"
F	3.250"	1.25" X 3.25"
SS	0.757"	X 135°
H	1.951"	Aluminum
T	3.250"	Tube Mullion

TABLE C, CONT.

Dimension	Value (in)	For Mullion:
T	1.250"	1.25" X 3.25"
SS	0.757"	X 45°
H	1.439"	Aluminum
T	3.250"	Tube Mullion
F	3.250"	1.25" X 3.94"
SS	0.757"	45° Bay Mull
H	1.562"	Aluminum
T	3.250"	45° Bay Mull

TABLE D

Mull Dimension (Item #)	PGT Part #				
	Mullion	Std. Clip	Offset Clip	U-Clip	Angle Clip
1" X 4" X .125" (1)	66080	66011SV	66011SVOS	66053SV	66064SV
1" X 4" X .375" (1)	66010	66011SM	66011SMOS	66053SM	66064SM
1" X 4" X .375" "T" (1)	66020	66011SM	66011SMOS	66053SM	66064SM
1.25" X 3.25" X .100" (1)	66100/66200	66011SM	66011SMOS	66053SM	66064SM
1.25" X 3.25" X .624" (1)	66102/66202	66011SM	66011SMOS	66053SM	66064SM
1.25" X 3.94" X .624" (1)	66102	66011SM	66011SMOS	66053SM	66064SM
45° Bay (2)	66031	N/A	N/A	N/A	66064SM
30° Bay (2)	66030	N/A	N/A	N/A	66064SM

PGT Custom Windows and Doors
1070 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600
registration #2288

IMPACT-RESISTANT ALUMINUM TUBE MULLIONS

MULLION AND CLIP DIMENSIONS B

Drawing No.: 6300JR
Sheet: 19 OF 22
Scale: N/A
Date: 08/29/11
Checked By:
Date:
Mark: F
Drawn By: J ROSOWSKI
Date: 03/19/26
Approved: A MORLESIN
Revisions: NO CHANGES THIS SHEET

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 26-0401.06
Expiration Date: 05/26/2031
By: Manuel Perez
Miami-Dade Product Control

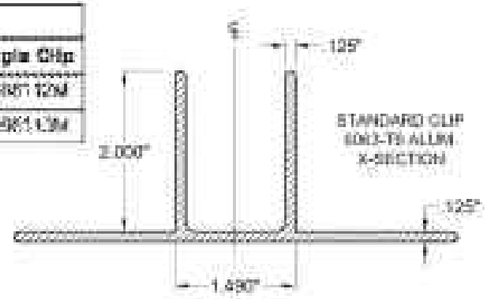
ANTHONY LYNN MILLER
LICENSE
No. 58705
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A LYNN MILLER, P.E.
P.E.# 58705

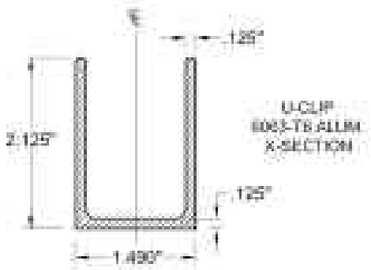
TABLE E

Mull Dimension (sheet 4)	PGT Part #			
	Mullion	Std. Clip	U-Clip	Angle Clip
2" X 4" X .25" (1A)	19X02	19S28T1M	19U27T1M	19S87T2M
2" X 6" X .25" (1T)	19J04	19S28T2M	19U27T2M	19S87T3M

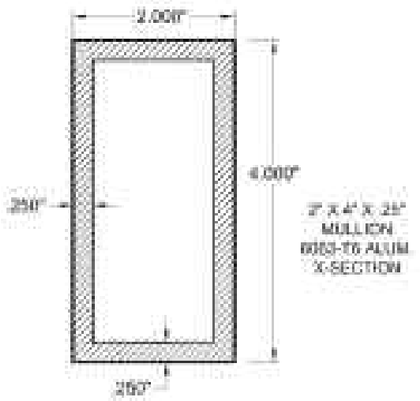
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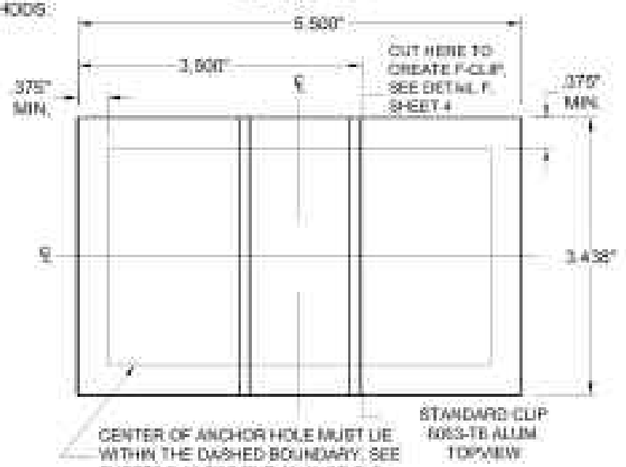
1) HOLES TO BE DRILLED IN THE FIELD FOLLOWING DIMENSIONAL RESTRICTIONS GIVEN ON THIS SHEET.
2) SEE SHEETS 5-17 FOR SUGGESTED, APPROXIMATE HOLE LOCATIONS.
3) SEE SHEETS 2-4 FOR GENERAL INSTALLATION METHODS.

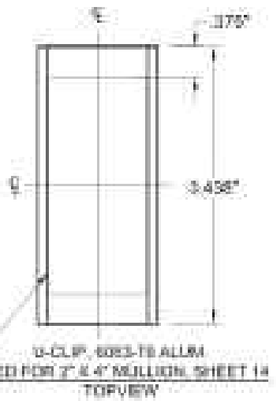


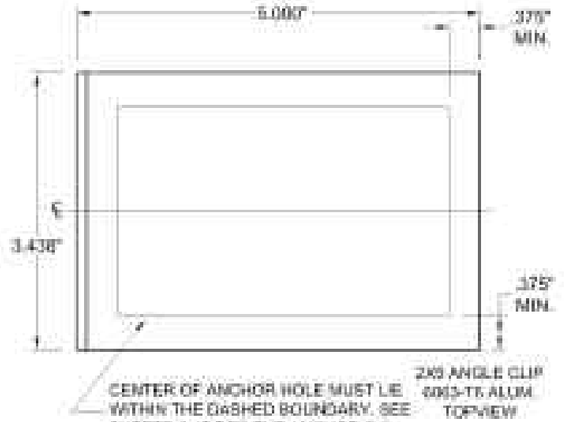


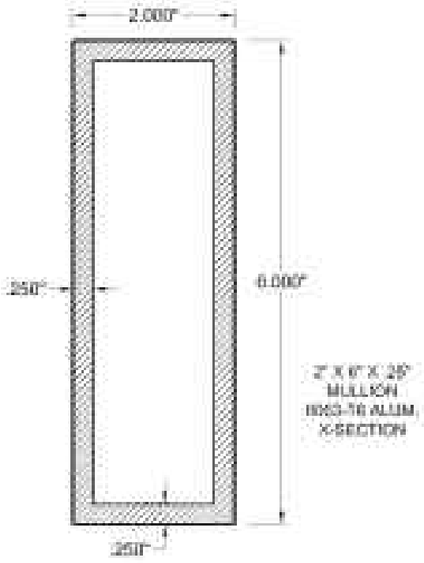


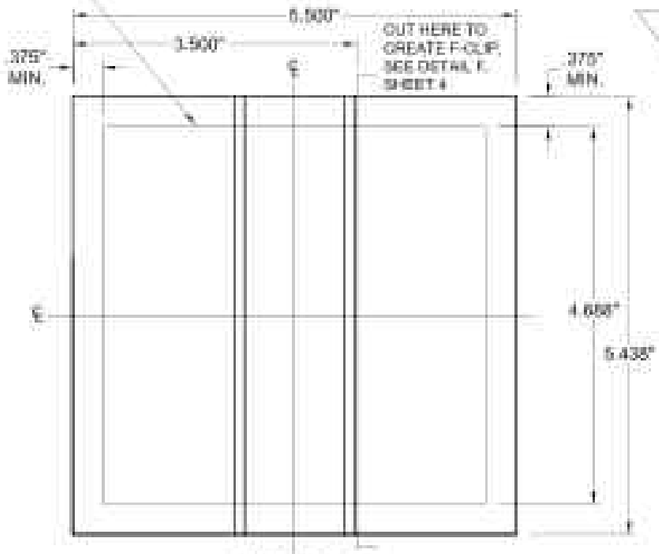


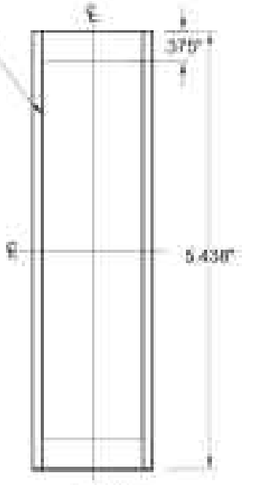


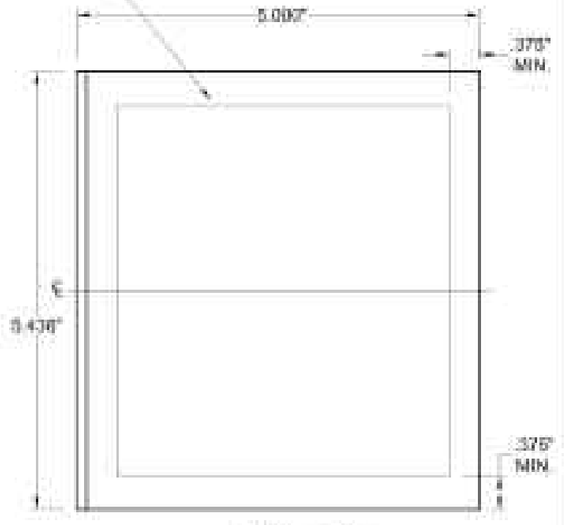












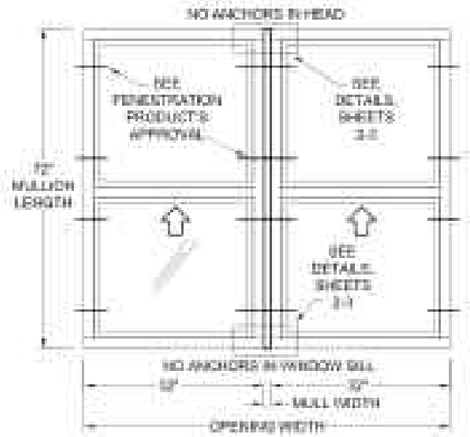
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3800 PRECISION DRIVE
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REGISTRATION #2258

Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
Drawing Title: MULLION AND CLIP DIMENSIONS C
Scale: N/A
Drawing No.: 6300JR
Sheet: 20 OF 22
Date: 08/29/11
Checked By:
Date:
Rev: F
Drawn By: J.ROSOWSKI
Date: 03/19/26
Approved By: A.MORLESIN
Approved: NO CHANGES THIS SHEET

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 26-0401.06
Expiration Date: 05/26/2031
By: Manuel Feria
Miami-Dade Product Control

ANTHONY LYNN MILLER
LICENSE
No. 58705
05/31/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A LYNN MILLER, P.E.
P.E.# 58705

EXAMPLE 1: SINGLE VERTICAL MULLION



THE BUILDING SUBSTRATE IS KNOWN TO BE WOOD ON ALL FOUR SIDES. THE WINDOW FRAME DEPTH IS 2-1/4". THE OPENING REQUIRES A DESIGN PRESSURE OF +60.0/-60.0 PSF.

1) INITIALLY ASSUMING THAT A 1" WIDE MULLION IS SUITABLE,THE MULLION LENGTH IS 72" AND THE OPENING WIDTH IS 32"+32+1" =65", REFERENCING SHEET 22, THE COLUMN USING RECTANGULAR LOADING MUST BE USED. SCAN THE MULLION TABLES FOR A MULLION THAT IS AT LEAST THE WINDOW FRAME DEPTH OF 2-1/4" AND WILL MEET OR EXCEED THE REQUIRED DESIGN PRESSURE OF +60.0/-60.0 PSF. IF THE TABLE DOES NOT SHOW THE EXACT SIZE, USE THE NEXT LARGER SIZE AVAILABLE.

FROM TABLE 1A, SHEET 5, THE 1" X 2.75" X .375" MULLION (LENGTH = 72", OPENING WIDTH = 70") MEETS THE DEPTH REQUIRED, HOWEVER THE DESIGN PRESSURE IS +/-58.3 PSF AND WOULD NOT BE SUITABLE FOR THIS APPLICATION.

FROM TABLE 2A, SHEET 6, THE 1" X 2.75" X .650" MULLION (LENGTH = 72", OPENING WIDTH = 70") HAS A DESIGN PRESSURE OF +/-72.7 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION, NOTE THE ANCHOR CAPACITY REQUIRED OF 636 LBS.

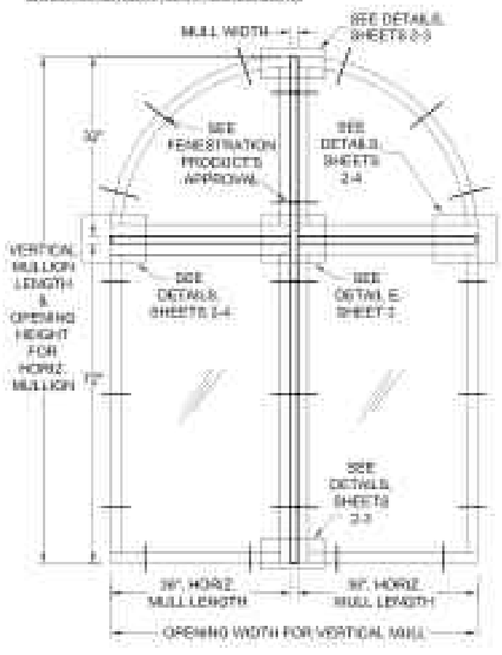
2) USE TABLE 2B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE WOOD SUBSTRATE. BOTH THE STANDARD CLIP WITH (4) #12 ANCHORS AND THE 2X5 ANGLE CLIPS WITH (4) #12 ANCHORS HAVE A CAPACITY OF 865 LBS. THOUGH EITHER ONE COULD BE USED, THE STANDARD CLIP IS EASIER TO INSTALL.

3) VERIFY THE DESIGN PRESSURE OF THE FENESTRATION PRODUCTS USED WITH THIS MULLION SYSTEM. THE LOWER DESIGN PRESSURE, OF MULLIONS OR FENESTRATION PRODUCTS, WILL APPLY TO THE OVERALL ASSEMBLY. FINAL DESIGN PRESSURE REQUIRES THAT THE BOTH THE MULLION AND THE FENESTRATION PRODUCT BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION SPECIFICATIONS INTO RESPECTIVE SUBSTRATES AND FENESTRATION PRODUCTS TO MULLION.

IN THIS EXAMPLE, THE DESIGN PRESSURE REQUIRED WAS +/-60.0 PSF. THE OVERALL MULLION SYSTEM WAS DETERMINED TO BE 72.7 PSF WITH AN ANCHOR CAPACITY OF 636 LBS. ALTERNATIVELY, THE ANCHOR CAPACITY ADJUSTMENT FORMULA COULD HAVE BEEN USED TO CALCULATE THE ANCHOR CAPACITY REQUIRED FOR THE EXACT DESIGN PRESSURE OF 60 PSF.

$$(60\ \text{PSF}) \times \left(\frac{636\ \text{LBS}}{72.7\ \text{PSF}}\right) = 524.8\ \text{LBS}$$ (MAY BE USED TO QUALIFY # 10 STEEL SCREWS FROM TABLE 2B)

EXAMPLE 2: MULTIPLE MULLIONS



THE BUILDING SUBSTRATE IS KNOWN TO BE CMU ON THE JAMBS AND USES A CONCRETE HEADER AND SILL. THE WINDOW FRAME DEPTH IS 2-3/8". THE OPENING REQUIRES A DESIGN PRESSURE OF +50.0/-55.0 PSF.

FOR THE VERTICAL MULLION:

1) INITIALLY ASSUMING THAT A 1" WIDE MULLION IS SUITABLE, THE MULLION LENGTH IS 32"+72"+1"=105" AND THE OPENING WIDTH IS 36"+36"+1" =73", REFERENCING SHEET 22, THE COLUMN USING RECTANGULAR LOADING SHALL BE USED. SCAN THE MULLION TABLES FOR A MULLION THAT IS AT LEAST THE WINDOW FRAME DEPTH OF 2-3/8" AND WILL MEET OR EXCEED THE REQUIRED DESIGN PRESSURE OF +50.0/-55.0 PSF. IF THE TABLE DOES NOT SHOW THE EXACT SIZE, USE THE NEXT LARGER SIZE AVAILABLE.

FROM TABLE 1A, SHEET 6, THE 1" X 2.75" X .375" MULLION (LENGTH = 108", OPENING WIDTH = 60") MEETS THE DEPTH REQUIRED, HOWEVER THE DESIGN PRESSURE IS +/-15.1 PSF AND WOULD NOT BE SUITABLE FOR THIS APPLICATION.

FROM TABLE 10A, SHEET 14, THE 2" X 4" X .250" MULLION (LENGTH = 108", OPENING WIDTH = 60") HAS A DESIGN PRESSURE OF +/-64.7 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION. NOTE THE ANCHOR CAPACITY REQUIRED OF 971 LBS.

BECAUSE IT IS NOW KNOWN THAT THE MULLION WILL ADD 2" TO THE WIDTH OF THE MULLED UNIT, THE ADJUSTED OPENING WIDTH IS 36"+36"+2"=74", NOT 73" AS PREVIOUSLY ASSUMED. VERIFY THAT THE DESIGN PRESSURE IS STILL APPLICABLE FOR THE ADJUSTED OPENING. ALTERNATIVELY, THE WINDOW WIDTHS MAY BE REDUCED TO MAINTAIN THE 73" DIMENSION (35-1/2"+35-1/2"+2"=73").

2) USE TABLE 10B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE CONCRETE SUBSTRATE. IN THIS EXAMPLE, ASSUME THE POURED CONCRETE HEADER AND SILL ARE 8" WIDE. IF THE MULLION CLIP WERE TO BE CENTERED WITHIN THE 8", CARE MUST BE TAKEN TO MAINTAIN THE FASTENER'S EDGE DISTANCE. USING THE STANDARD CLIP WITH (6) 3/16" ULTRACON+ ANCHORS AT AN EDGE DISTANCE OF 2-1/2" GIVES AN ANCHOR CAPACITY OF 1660 LBS WHICH IS GREATER, AND THEREFORE SUITABLE, FOR THE REQUIRED ANCHOR CAPACITY OF 971 LBS.

FOR THE HORIZONTAL MULLIONS:

BECAUSE THE VERTICAL MULL WILL BE A 2" X 4" X .250" MULLION, IN THIS EXAMPLE WE WILL MATCH THE HORIZONTAL AND VERTICAL MULLIONS, ALTERNATIVELY, ANOTHER MULLION TYPE COULD BE CHOSEN.

1) THE MULLION LENGTH IS 36" AND THE OPENING HEIGHT IS 32"+72"+2" =106", REFERENCING SHEET 22, THE COLUMN USING TRAPEZOIDAL/TRIANGULAR LOADING MAY BE USED. FROM TABLE 10A, SHEET 14, THE 2" X 4" X .250" MULLION (@ LENGTH = 42", OPENING HEIGHT = 120") HAS A DESIGN PRESSURE OF +/-170.0 PSF WHICH EXCEEDS THE REQUIREMENTS FOR THE OPENING AND MAY BE USED IN THIS APPLICATION. NOTE THE ANCHOR CAPACITY REQUIRED OF 521 LBS.

3) USE TABLE 10B TO FIND THE ANCHOR TYPE, ANCHOR QUANTITY AND CLIP TYPE REQUIRED FOR THE CMU SUBSTRATE. IN THIS EXAMPLE, ASSUME THE CMU JAMBS ARE 8" WIDE. IF THE MULLION CLIP WERE TO BE CENTERED WITHIN THE 8", CARE MUST BE TAKEN TO MAINTAIN THE FASTENER'S EDGE DISTANCE. USING THE 2X5 ANGLE CLIPS WITH (4) 3/16" ULTRACON+ ANCHORS AT AN EDGE DISTANCE OF 2-1/2" GIVES AN ANCHOR CAPACITY OF 740 LBS WHICH IS GREATER, AND THEREFORE SUITABLE, FOR THE REQUIRED ANCHOR CAPACITY OF 521 LBS.

4) FOR THE U-CLIP IN THE HORIZONTAL MULLION TO VERTICAL MULLION, USE THE SAME ANCHOR CAPACITY OF 521 LBS. TABLE 10B FOR THE U-CLIP SHOWS THE ANCHOR CAPACITY IS 1074 LBS WHEN USING 3 ANCHORS, WHICH IS GREATER, AND THEREFORE SUITABLE, FOR THE REQUIRED ANCHOR CAPACITY REQUIREMENT OF 521 LBS. THE ANCHOR TYPE IS A #12 STEEL SCREW.

FROM THE ABOVE STEPS, OUR MULLION DESIGN PRESSURE IS
+/-64.7 PSF FROM THE VERTICAL MULLION.
+/-170.0 PSF FROM THE 36" HORIZONTAL MULLION ATTACHING TO CMU.
+/-170.0 PSF FROM THE 36" HORIZONTAL MULLION ATTACHING TO THE VERTICAL MULLION (INTERSECTION).
THE LOWEST DESIGN PRESSURE IS +/-64.7 PSF AND WOULD APPLY TO ALL OF THE MULLIONS.

VERIFY THE DESIGN PRESSURE OF THE FENESTRATION PRODUCTS USED WITH THIS MULLION SYSTEM. THE LOWER DESIGN PRESSURE, OF MULLIONS OR FENESTRATION PRODUCTS, WILL APPLY TO THE OVERALL ASSEMBLY. FINAL DESIGN PRESSURE REQUIRES THAT THE BOTH THE MULLION AND THE FENESTRATION PRODUCT BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION SPECIFICATIONS INTO RESPECTIVE SUBSTRATES AND FENESTRATION PRODUCTS TO MULLION.

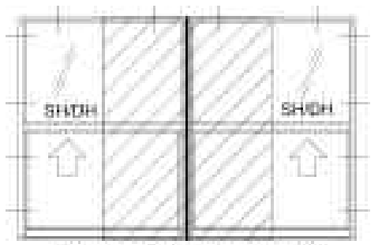
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Title: IMPACT-RESISTANT ALUMINUM TUBE MULLIONS (Drawing Type) EXAMPLES
Drawing No.: 6300JR
Sheet: 21 OF 22
Scale: N/A
Date: 08/29/11
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Rev: F
Date:
Drawn By: J ROSOWSKI
Date: 03/19/26
Approved By: A MORLESIN
Revisions: NO CHANGES THIS SHEET

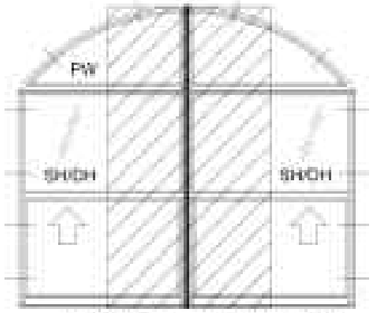
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By: Manuela Feria
Miami-Dade Product Control

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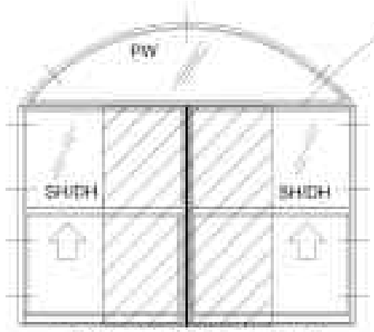
EXAMPLES OF RECTANGULAR LOADING



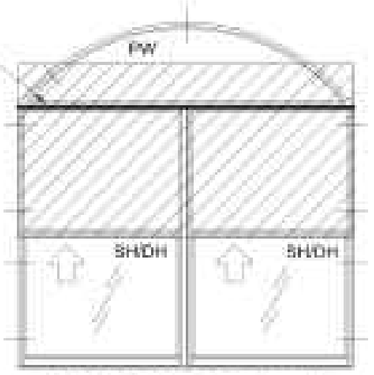
LOADING OF VERTICAL MULLION
SILL OF WINDOWS NOT ANCHORED



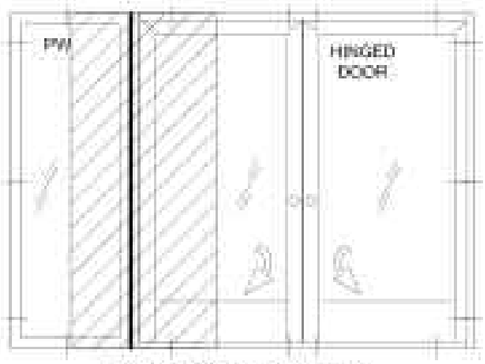
LOADING OF VERTICAL MULLION
WITH INTERSECTING HORIZONTAL MULLIONS



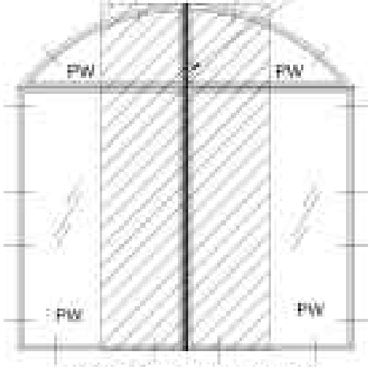
LOADING OF VERTICAL MULLION
SILL OF WINDOWS NOT ANCHORED



LOADING OF HORIZONTAL MULLION
WITH INTERSECTING VERTICAL MULLION

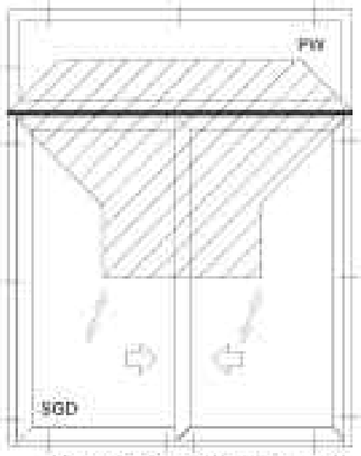


LOADING OF VERTICAL MULLION
PANEL OF HINGED DOOR IS NOT CAPTURED OR ANCHORED



LOADING OF VERTICAL MULLION
WITH INTERSECTING HORIZONTAL MULLIONS

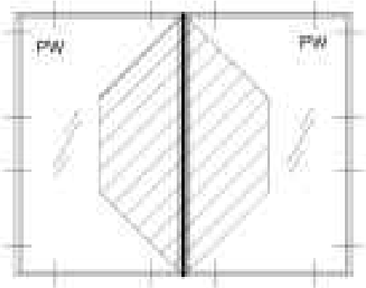
EXAMPLES OF TRAPEZOIDAL/TRIANGULAR LOADING



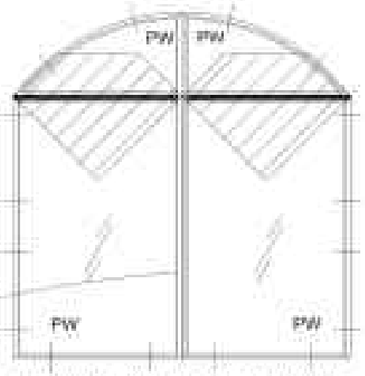
LOADING OF HORIZONTAL MULLION



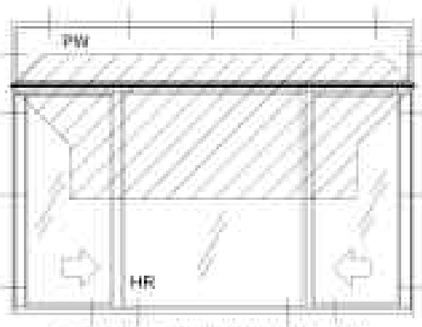
LOADING OF HORIZONTAL MULLION



LOADING OF VERTICAL MULLION



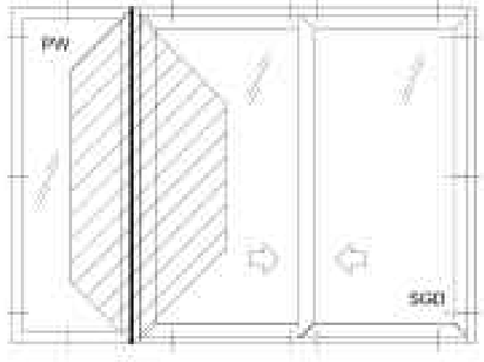
LOADING OF (2) HORIZONTAL MULLIONS



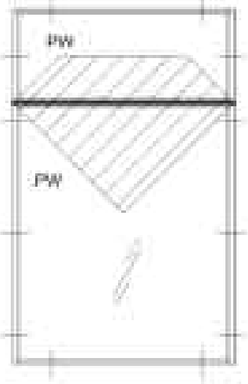
LOADING OF HORIZONTAL MULLION



LOADING OF HORIZONTAL MULLION



LOADING OF VERTICAL MULLION



LOADING OF HORIZONTAL MULLION

NOTES:

1) DRAWINGS ARE REPRESENTATIONS OF TYPICAL CONFIGURATIONS. CONFIGURATIONS NOT SHOWN MAY BE EXTRAPOLATED FROM THOSE SHOWN.

2) IF THE LOADING TYPE CANNOT BE DETERMINED, USE RECTANGULAR LOADING.

3) SEE PRODUCTS' APPROVAL FOR ACTUAL ANCHOR LOCATIONS.

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IMPACT-RESISTANT ALUMINUM TUBE MULLIONS
LOADING EXAMPLES

Scale: N/A
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Drawn By: J.ROSOWSKI
Date: 08/29/11
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