



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Pino's Window Corporation
6860 NW 77 Terrace
Medley, FL 33166

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: Aluminum Tube Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. **M95-18A Rev H**, titled "Aluminum Tube Mullions", sheets 1 through 4 of 4, dated 02/20/2012 and last revised on June 10, 2022, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control renewal 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# 12-0314.02** 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 **Ishaq I. Chanda, P.E.**



Ishaq I. Chanda

NOA No. 20-0109.06
Expiration Date: June 23, 2023
Approval Date: June 23, 2022
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **M95-18A**, titled "Aluminum Tube Mullions", sheets 1 through 4 of 4, dated 12/07/1995, with last revision D dated 02/20/2012, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS "*Submitted under NOA # 08-0514.10*"

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Aluminum Fixed Windows Mulls Together, prepared by Fenestration Testing Laboratory, Test Report No. **FTL-5562**, dated 03/29/2008, signed and sealed by Carlos S. Rionda, P.E.

C. CALCULATIONS

1. Anchor and mullion calculations, prepared by Al-Farooq Corporation., dated 01/30/2012, signed and sealed by Javad Ahmad, P.E.

"Submitted under NOA # 07-0322.12"

2. Anchor and mullion calculations, prepared by Al-Farooq Corporation., dated 02/24/2007, signed and sealed by Humayoun Farooq, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to 2010 FBC and no financial interest issued by Al-Farooq Corporation, dated 01/30/2012, signed and sealed by Javad Ahmad, P.E.

"Submitted under NOA # 08-0514.10"

2. Laboratory compliance statement issued by Fenestration Testing Laboratory, Inc., dated 03/29/2008, signed and sealed by Carlos S. Rionda, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0109.06
Expiration Date: June 23, 2023
Approval Date: June 23, 2022

NOTICE OF ACCEPTANCE:EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **M95-18A Rev H**, titled “Aluminum Tube Mullions”, sheets 1 through 4 of 4, dated 02/20/2012 and last revised on June 10, 2022, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying **FBC 7th (2020)** dated 04/27/2021, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

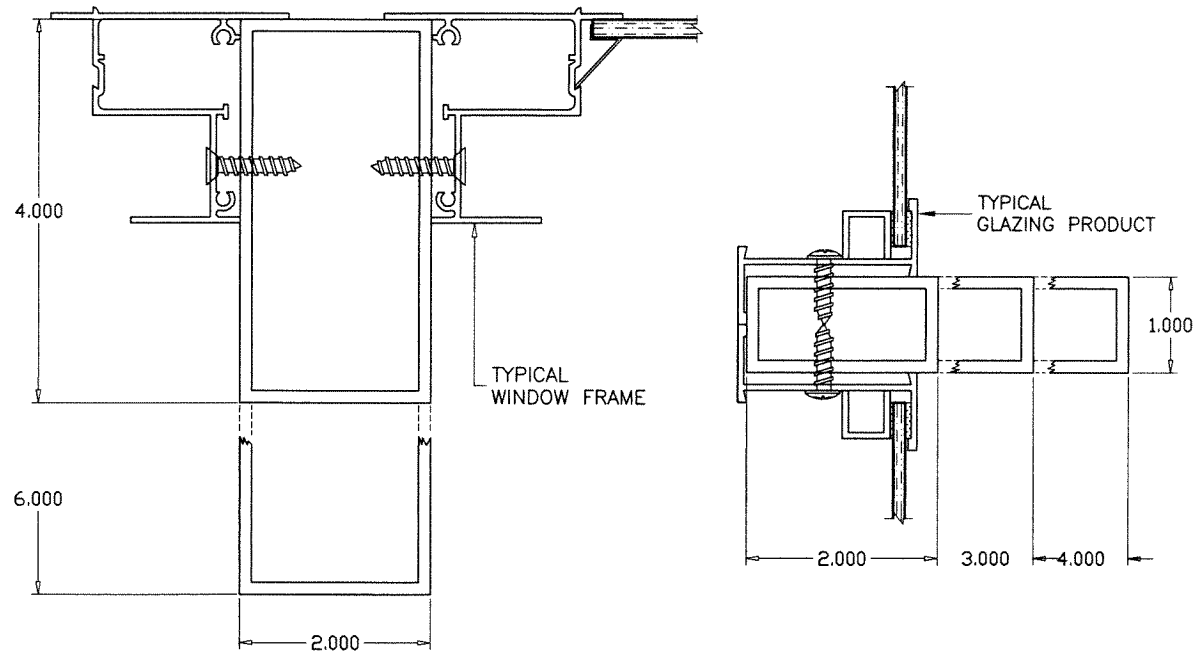
1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, and of no financial interest, dated 04/27/2021 and 06/06/2022, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. This NOA **revises** and 1-year **renews** **NOA# 12-0314.02**, expiring 06/23/2023.
2. Statement letter dated 02/17/22 for a pending mullion schedule test, issued by Hurricane Engineering & Testing, Inc, signed by Dr. Syed Ali.
3. Pending test proposal dated 06/03/22 by Al-Farooq Corporation.

Ishaq I. Chanda

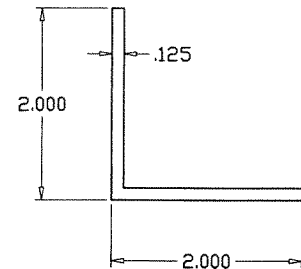
Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 20-0109.06
Expiration Date: June 23, 2023
Approval Date: June 23, 2022



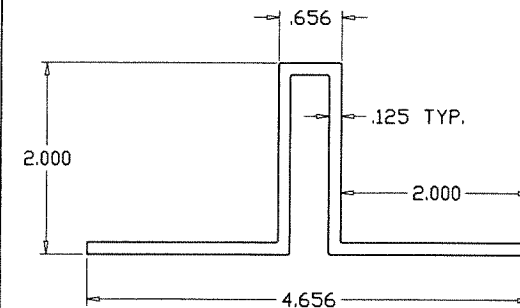
MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS HORIZONTAL OR VERTICAL

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING

ALL MULLIONS 6063-T6 MIN.



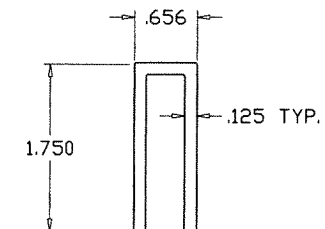
ANGLE CLIP (6063-T5)



MULLION CLIP (6063-T6)

(ALT. TO ANGLES)

CLIP LENGTHS MUST BE CUT TO FIT SNUG INTO TUBE MULLIONS.



MULLION CLIP LEGS REMOVED

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 20-0109.06

Expiration Date 06/23/2023

By Ishaq I. Chank
Miami-Dade Product Control

RECTANGULAR ALUMINUM TUBE MULLIONS USING MULLION PROPERTIES ONLY

NOTES:

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

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

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

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

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

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

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

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

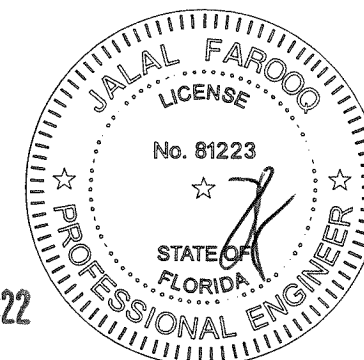
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

INSTRUCTIONS:

USE CHARTS AND GRAPHS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.
- STEP 2** USE MIAMI-DADE COUNTY APPROVED GLAZING PRODUCTS MEETING ABOVE LOAD REQUIREMENTS.
- STEP 3** USE CONNECTION TO MULLION AS PER PRODUCT APPROVAL.
- STEP 4** USING CHARTS ON SHEET 2 SELECT MULLION SIZE WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** USING ANCHOR TYPES ON SHEET 4 THRU 6, AND ANCHOR CHARTS ON SHEET 3, SELECT ANCHOR TYPE WITH DESIGN RATING MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.
- STEP 6** LOWER VALUE FROM MULLION CHART, ANCHOR CHART OR GLAZING PRODUCTS APPROVAL WILL APPLY TO ENTIRE SYSTEM.

MULLION SYSTEM IS RATED FOR LARGE MISSILE IMPACT. AND CAN BE USED WITH ALL MIAMI-DADE COUNTY APPROVED IMPACT AND NON-IMPACT RESISTANT PRODUCTS.



JUN 10 2022

afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

ALUMINUM TUBE MULLIONS

Pino's Window Corp.

6860 N.W. 75th Street
Medley, FL. 33166

Tel. (305) 888-9946 Fax (305) 888-8079

revisions:	no	date	by	description
	D	02.20.12		UPDATED TO 2010 FBC
	E	11.26.19		UPDATED TO 2017 FBC
	F	02.28.20		NO CHANGE THIS SHEET
	G	11.05.20		UPDATED TO 2020 FBC
	H	06.08.22		REV. PER RER COMMENTS

date: 12-07-95	scale: 1/2" = 1"
dr. by: TARIQ	chk. by:

drawing no.

M95-18A

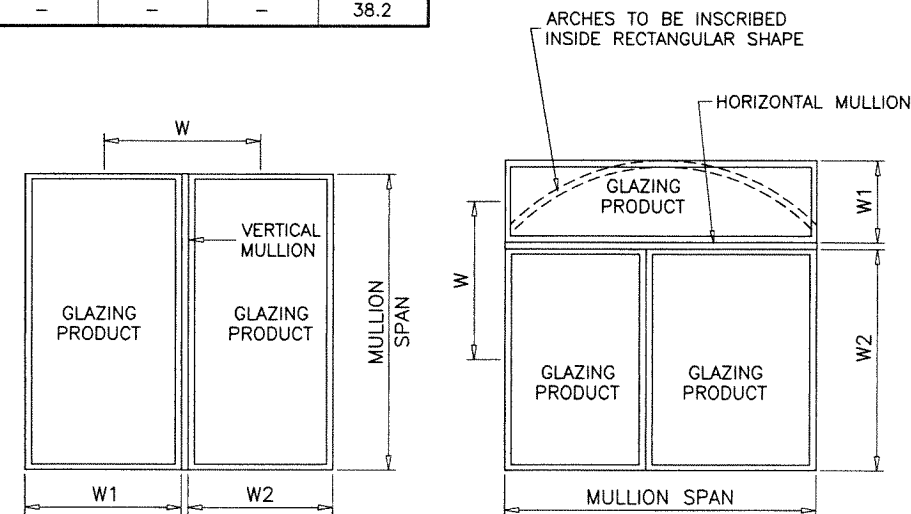
sheet 1 of 7

MULLION M95-18A

MULLIONS LOAD CAPACITY - PSF						
WIDTH (W) (INCHES)	MULL SPAN (INCHES)	1/8" THK. ALUM TUBES				
		1" X 2"	1" X 3"	1" X 4"	2" X 4"	2" X 6"
20	38 3/8	130.0	130.0	130.0	130.0	130.0
25		130.0	130.0	130.0	130.0	130.0
30		119.1	130.0	130.0	130.0	130.0
35		102.1	130.0	130.0	130.0	130.0
40		89.3	130.0	130.0	130.0	130.0
45		79.4	130.0	130.0	130.0	130.0
50		71.5	130.0	121.4	130.0	130.0
55		65.0	122.7	110.4	126.9	130.0
60		59.6	112.5	101.2	116.3	130.0
65		55.0	103.8	93.4	107.4	130.0
70		51.1	96.4	86.7	99.7	130.0
75		47.7	90.0	80.9	93.1	130.0
80		44.7	84.3	75.9	87.3	130.0
85		42.0	79.4	71.4	82.1	130.0
20	50 5/8	79.4	130.0	130.0	130.0	130.0
25		63.5	130.0	130.0	130.0	130.0
30		52.9	127.1	130.0	130.0	130.0
35		45.4	108.9	130.0	130.0	130.0
40		39.7	95.3	114.5	130.0	130.0
45		35.3	84.7	101.7	130.0	130.0
50		31.8	76.2	91.6	117.8	130.0
55		28.9	69.3	83.2	107.1	130.0
60		26.5	63.5	76.3	98.2	130.0
65		24.4	58.7	70.4	90.6	130.0
70		22.7	54.5	65.4	84.1	130.0
75		21.2	50.8	61.0	78.5	130.0
80		-	47.7	57.2	73.6	130.0
85		-	44.9	53.9	69.3	130.0
20	58	52.8	130.0	130.0	130.0	130.0
25		42.2	115.1	130.0	130.0	130.0
30		35.2	95.9	128.5	130.0	130.0
35		30.2	82.2	110.1	120.0	130.0
40		26.4	71.9	96.4	105.0	130.0
45		23.5	64.0	85.7	93.3	130.0
50		21.1	57.6	77.1	84.0	130.0
55		-	52.3	70.1	76.4	130.0
60		-	48.0	64.3	70.0	130.0
65		-	44.3	59.3	64.6	130.0
70		-	41.1	55.1	60.0	130.0
75		-	38.4	51.4	56.0	130.0
80		-	36.0	48.2	52.5	130.0
85		-	33.9	45.4	49.4	130.0
20	63	41.2	117.9	130.0	130.0	130.0
25		33.0	94.3	109.5	124.6	130.0
30		27.5	78.6	91.2	103.9	130.0
35		23.5	67.4	78.2	89.0	130.0
40		20.6	58.9	68.4	77.9	130.0
45		-	52.4	60.8	69.2	130.0
50		-	47.2	54.7	62.3	130.0
55		-	42.9	49.8	56.7	130.0
60		-	39.3	45.6	51.9	130.0
65		-	36.3	42.1	47.9	130.0
70		-	33.7	39.1	44.5	130.0
75		-	31.4	36.5	41.5	130.0
80		-	29.5	34.2	38.9	130.0
85		-	27.7	32.2	36.7	130.0

MULLIONS LOAD CAPACITY - PSF						
WIDTH (W) (INCHES)	MULL SPAN (INCHES)	1/8" THK. ALUM TUBES				
		1" X 2"	1" X 3"	1" X 4"	2" X 4"	2" X 6"
20	74 1/4	-	72.0	105.7	104.4	130.0
25		-	57.6	84.6	83.5	130.0
30		-	48.0	70.5	69.6	130.0
35		-	41.1	60.4	59.6	130.0
40		-	36.0	52.8	52.2	130.0
45		-	32.0	47.0	46.4	130.0
50		-	28.8	42.3	41.7	130.0
55		-	26.2	38.4	38.0	130.0
60		-	24.0	35.2	34.8	125.9
65		-	22.2	32.5	32.1	116.2
70		-	20.6	30.2	29.8	107.9
75		-	-	28.2	27.8	100.7
80		-	-	26.4	26.1	94.4
85		-	-	24.9	24.6	88.9
20	84	-	49.7	71.4	73.3	130.0
25		-	39.8	57.1	58.6	130.0
30		-	33.2	47.6	48.9	130.0
35		-	28.4	40.8	41.9	130.0
40		-	24.9	35.7	36.7	130.0
45		-	22.1	31.7	32.6	129.9
50		-	-	28.6	29.3	116.9
55		-	-	26.0	26.7	106.3
60		-	-	23.8	24.4	97.4
65		-	-	22.0	22.6	89.9
70		-	-	20.4	20.9	83.5
75		-	-	-	-	77.9
20	96	-	-	50.2	53.4	130.0
25		-	-	40.1	42.7	130.0
30		-	-	33.4	35.6	130.0
35		-	-	28.7	30.5	126.4
40		-	-	25.1	26.7	110.6
45		-	-	22.3	23.7	98.3
50		-	-	20.1	21.4	88.5
55		-	-	-	-	80.4
60		-	-	-	-	73.7
65		-	-	-	-	68.1
20	108	-	-	-	-	130.0
25		-	-	-	-	130.0
30		-	-	-	-	115.2
35		-	-	-	-	98.8
40		-	-	-	-	86.4
45		-	-	-	-	76.8
50		-	-	-	-	69.1
55		-	-	-	-	62.8
60		-	-	-	-	57.6
20	120	-	-	-	-	130.0
25		-	-	-	-	110.8
30		-	-	-	-	92.3
35		-	-	-	-	79.2
40		-	-	-	-	69.3
45		-	-	-	-	61.6
50		-	-	-	-	55.4

MULLIONS LOAD CAPACITY - PSF						
WIDTH (W) (INCHES)	MULL SPAN (INCHES)	1/8" THK. ALUM TUBES				
		1" X 2"	1" X 3"	1" X 4"	2" X 4"	2" X 6"
20	132	-	-	-	-	111.7
25		-	-	-	-	89.3
30		-	-	-	-	74.4
35		-	-	-	-	63.8
40		-	-	-	-	55.8
45		-	-	-	-	49.6
20	144	-	-	-	-	86.0
25		-	-	-	-	68.8
30		-	-	-	-	57.3
35		-	-	-	-	49.2
40		-	-	-	-	43.0
45		-	-	-	-	38.2



TYPICAL MULLION ARRANGEMENTS

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

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 20-0109.06

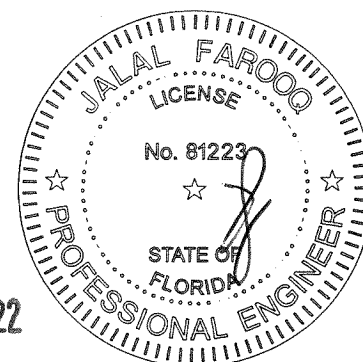
Expiration Date 06/23/2023

By Ishag I. Chande
Miami-Dade Product Control

NOTE:
MULLIONS RATED IN THESE CHARTS MAY BE ORIENTED
VERTICALLY OR HORIZONTALLY.
(INTERPOLATION BETWEEN WIDTHS ALLOWED)

MULLIONS

JUN 10 2022



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 262-6978 FAX. (305) 262-6978

ALUMINUM TUBE MULLIONS

Pino's Window Corp.

6860 N.W. 75th Street
Medley, FL. 33166

Tel. (305) 888-9946 Fax (305) 888-8079

revisions:	no	date	description
	D	02.20.12	NO CHANGE THIS SHEET
	E	11.26.19	UPDATED TO 2017 FBC
	F	02.28.20	REV. PER COMMENTS
	G	11.05.20	UPDATED TO 2020 FBC
	H	06.08.22	REV. PER COMMENTS

date: 12-07-95
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.

M95-18A

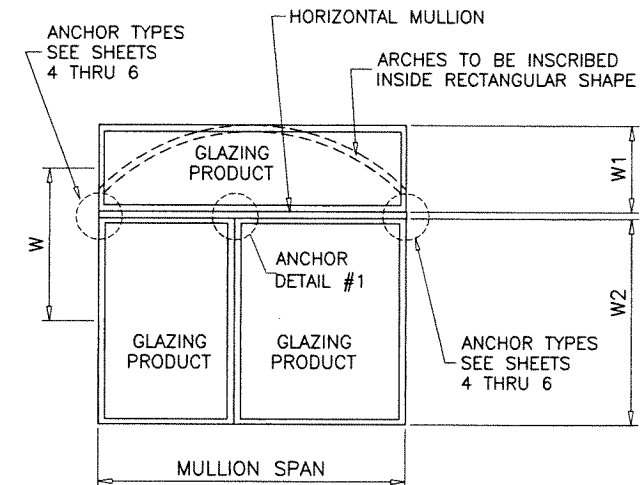
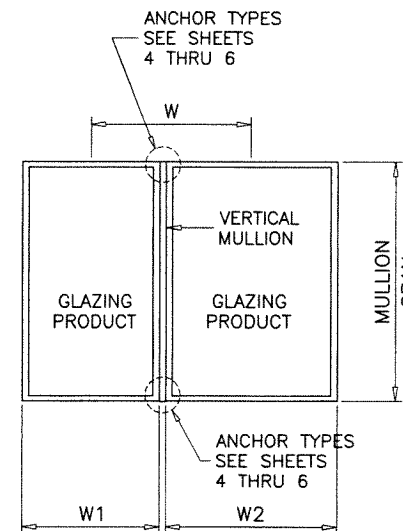
sheet 2 of 7

MULLION M95-18A

ANCHORS LOAD CAPACITY - PSF							
WIDTH (W) (INCHES)	MULL SPAN (INCHES)	ANCHOR TYPES					
		W1 WC1	C1	B1 WB1	W2 WC2	C2	B2 WB2
20	38 3/8	130.0	130.0	130.0	130.0	130.0	130.0
25		130.0	130.0	112.9	130.0	130.0	130.0
30		124.6	130.0	94.1	130.0	130.0	125.1
35		106.8	130.0	80.6	130.0	130.0	107.2
40		93.4	125.3	70.5	130.0	130.0	93.8
45		83.1	111.4	62.7	130.0	130.0	83.4
50		74.7	100.3	56.4	130.0	130.0	75.0
55		68.0	91.2	51.3	130.0	130.0	68.2
60		62.3	83.6	47.0	124.6	130.0	62.5
65		57.5	77.1	43.4	115.0	130.0	57.7
70	50 5/8	53.4	71.6	40.3	106.8	130.0	53.6
75		49.8	66.8	37.6	99.7	130.0	50.0
80		46.7	62.7	35.3	93.4	125.3	46.9
85		44.0	59.0	33.2	87.9	118.0	44.1
20		130.0	130.0	107.0	130.0	130.0	130.0
25		113.3	130.0	85.6	130.0	130.0	113.8
30		94.4	126.7	71.3	130.0	130.0	94.8
35		80.9	108.6	61.1	130.0	130.0	81.3
40		70.8	95.0	53.5	130.0	130.0	71.1
45		63.0	84.4	47.5	125.9	130.0	63.2
50	58	56.7	76.0	42.8	113.3	130.0	56.9
55		51.5	69.1	38.9	103.0	130.0	51.7
60		47.2	63.3	35.7	94.4	126.7	47.4
65		43.6	58.5	32.9	87.2	116.9	43.8
70		40.5	54.3	30.6	80.9	108.6	40.6
75		37.8	50.7	28.5	75.5	101.3	37.9
80		35.4	47.5	26.7	70.8	95.0	35.6
85		33.3	44.7	25.2	66.7	89.4	33.5
20		123.6	130.0	93.4	130.0	130.0	124.1
25		98.9	130.0	74.7	130.0	130.0	99.3
30	63	82.4	110.6	62.2	130.0	130.0	82.8
35		70.7	94.8	53.3	130.0	130.0	70.9
40		61.8	82.9	46.7	123.6	130.0	62.1
45		55.0	73.7	41.5	109.9	130.0	55.2
50		49.5	66.3	37.3	98.9	130.0	49.7
55		45.0	60.3	33.9	89.9	120.6	45.1
60		41.2	55.3	31.1	82.4	110.6	41.4
65		38.0	51.0	28.7	76.1	102.1	38.2
70		35.3	47.4	26.7	70.7	94.8	35.5
75		33.0	44.2	24.9	65.9	88.5	33.1
80	74 1/4	30.9	41.5	23.3	61.8	82.9	31.0
85		29.1	39.0	22.0	58.2	78.0	29.2
20		113.8	130.0	85.9	130.0	130.0	114.3
25		91.1	122.1	68.8	130.0	130.0	91.4
30		75.9	101.8	57.3	130.0	130.0	76.2
35		65.0	87.2	49.1	130.0	130.0	65.3
40		56.9	76.3	43.0	113.8	130.0	57.1
45		50.6	67.9	38.2	101.2	130.0	50.8
50		45.5	61.1	34.4	91.1	122.1	45.7
55		41.4	55.5	31.3	82.8	111.0	41.6
60	84	37.9	50.9	28.6	75.9	101.8	38.1
65		35.0	47.0	26.4	70.0	94.0	35.2
70		32.5	43.6	24.6	65.0	87.2	32.7
75		30.4	40.7	22.9	60.7	81.4	30.5
80		28.5	38.2	21.5	56.9	76.3	28.6
85		26.8	35.9	20.2	53.6	71.9	26.9

ANCHORS LOAD CAPACITY - PSF							
WIDTH (W) (INCHES)	MULL SPAN (INCHES)	ANCHOR TYPES					
		W1 WC1	C1	B1 WB1	W2 WC2	C2	B2 WB2
20	74 1/4	96.6	129.6	72.9	130.0	130.0	97.0
25		77.3	103.6	58.3	130.0	130.0	77.6
30		64.4	86.4	48.6	128.8	130.0	64.6
35		55.2	74.0	41.7	110.4	130.0	55.4
40		48.3	64.8	36.5	96.6	129.6	48.5
45		42.9	57.6	32.4	85.9	115.2	43.1
50		38.6	51.8	29.2	77.3	103.6	38.8
55		35.1	47.1	26.5	70.2	94.2	35.3
60		32.2	43.2	24.3	64.4	86.4	32.3
65		29.7	39.9	22.4	59.4	79.7	29.8
70	84	27.6	37.0	20.8	55.2	74.0	27.7
75		25.8	34.5	-	51.5	69.1	25.9
80		24.1	32.4	-	48.3	64.8	24.2
85		22.7	30.5	-	45.5	61.0	22.8
20		85.4	114.5	64.5	130.0	130.0	85.7
25		68.3	91.6	51.6	130.0	130.0	68.6
30		56.9	76.3	43.0	113.8	130.0	57.1
35		48.8	65.4	36.8	97.6	130.0	49.0
40		42.7	57.3	32.2	85.4	114.5	42.9
45		37.9	50.9	28.6	75.9	101.8	38.1
50	96	34.1	45.8	25.8	68.3	91.6	34.3
55		31.0	41.6	23.4	62.1	83.3	31.2
60		28.5	38.2	21.5	56.9	76.3	28.6
65		26.3	35.2	-	52.5	70.5	26.4
70		24.4	32.7	-	48.8	65.4	24.5
75		22.8	30.5	-	45.5	61.1	22.9
20		74.7	100.2	56.4	130.0	130.0	75.0
25		59.8	80.2	45.1	119.5	130.0	60.0
30		49.8	66.8	37.6	99.6	130.0	50.0
35		42.7	57.3	32.2	85.4	114.5	42.9
40	108	37.4	50.1	28.2	74.7	100.2	37.5
45		33.2	44.5	25.1	66.4	89.1	33.3
50		29.9	40.1	22.6	59.8	80.2	30.0
55		27.2	36.4	20.5	54.3	72.9	27.3
60		24.9	33.4	-	49.8	66.8	25.0
65		23.0	30.8	-	46.0	61.7	23.1
20		66.4	89.1	50.1	130.0	130.0	66.7
25		53.1	71.3	40.1	106.2	130.0	53.3
30		44.3	59.4	33.4	88.5	118.8	44.4
35		37.9	50.9	28.6	75.9	101.8	38.1
40	120	33.2	44.5	25.1	66.4	89.1	33.3
45		29.5	39.6	22.3	59.0	79.2	29.6
50		26.6	35.6	20.1	53.1	71.3	26.7
55		24.1	32.4	-	48.3	64.8	24.2
60		22.1	29.7	-	44.3	59.4	22.2
20		59.8	80.2	45.1	119.5	130.0	60.0
25		47.8	64.1	36.1	95.6	128.3	48.0
30		39.8	53.4	30.1	79.7	106.9	40.0
35		34.1	45.8	25.8	68.3	91.6	34.3
40		29.9	40.1	22.6	59.8	80.2	30.0
45	132	26.6	35.6	20.1	53.1	71.3	26.7
50		23.9	32.1	-	47.8	64.1	24.0

ANCHORS LOAD CAPACITY - PSF							
WIDTH (W) (INCHES)	MULL SPAN (INCHES)	ANCHOR TYPES					
		W1 WC1	C1	B1 WB1	W2 WC2	C2	B2 WB2
20	132	54.3	72.9	41.0	108.7	130.0	54.5
25		43.5	58.3	32.8	86.9	116.6	43.6
30		36.2	48.6	27.3	72.4	97.2	36.4
35		31.0	41.6	23.4	62.1	83.3	31.2
40		27.2	36.4	20.5	54.3	72.9	27.3
45		24.1	32.4	-	48.3	64.8	24.2



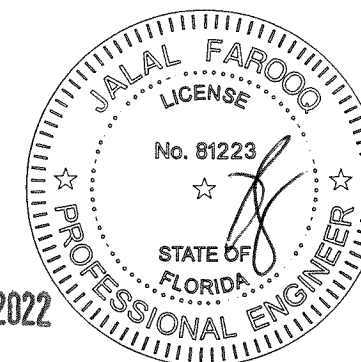
TYPICAL MULLION ARRANGEMENTS

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

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 20-0109.06
Expiration Date 06/23/2023
By Ishag I. Chahda
Miami-Dade Product Control

NOTE:
ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER
LOCATIONS AT HEAD, SILL OR JAMB ENDS.
FOR ANCHORS DESCRIPTION SEE SHEETS 5 & 6.
(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

ANCHORS



JUN 10 2022

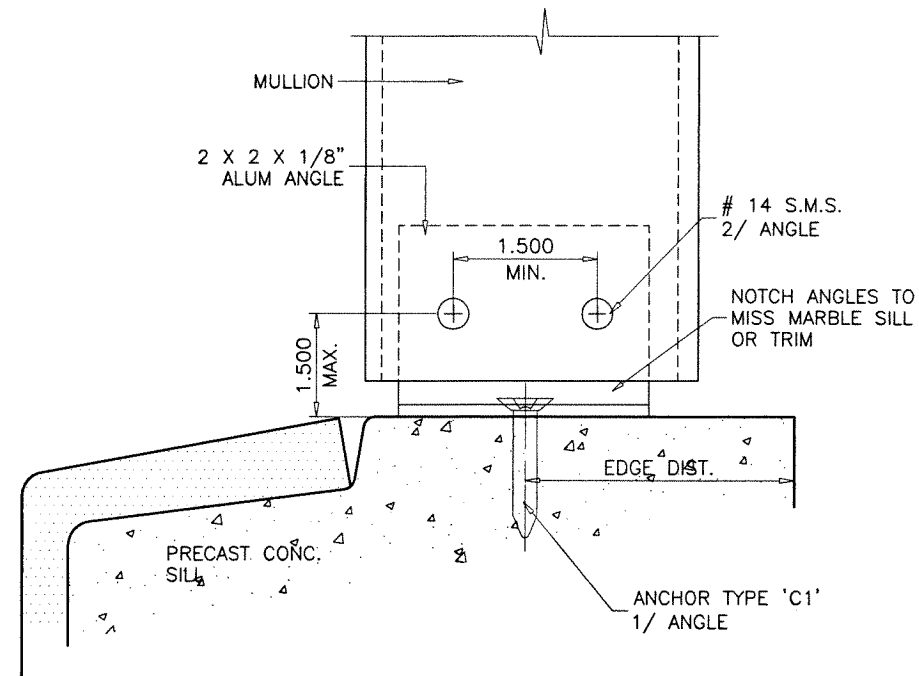
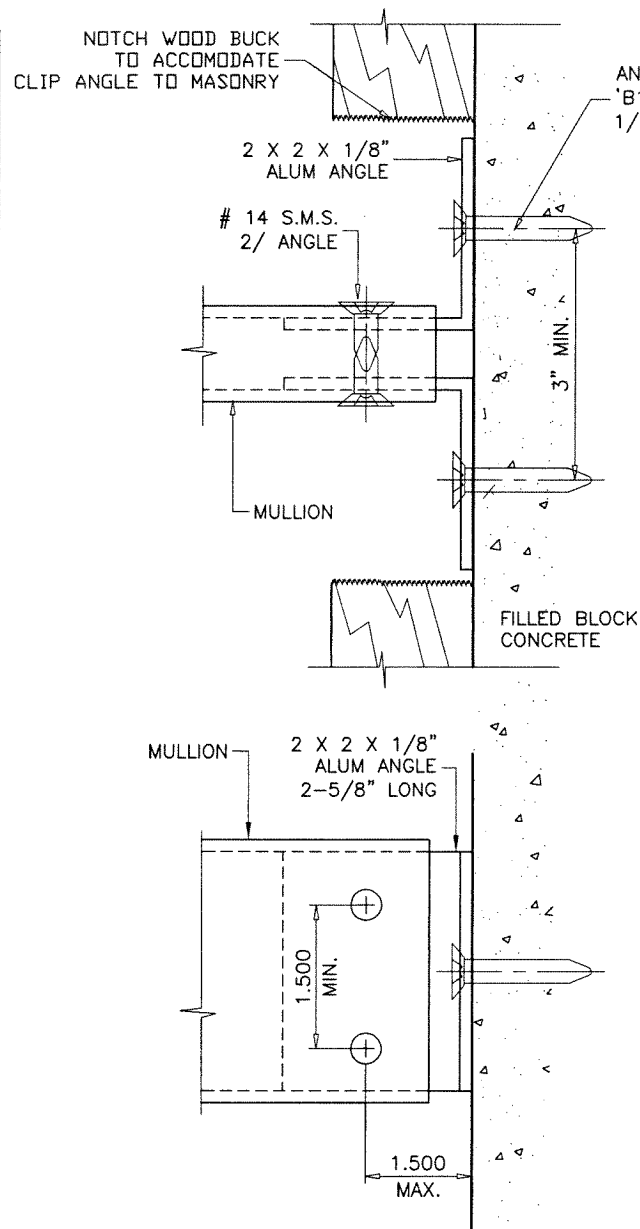
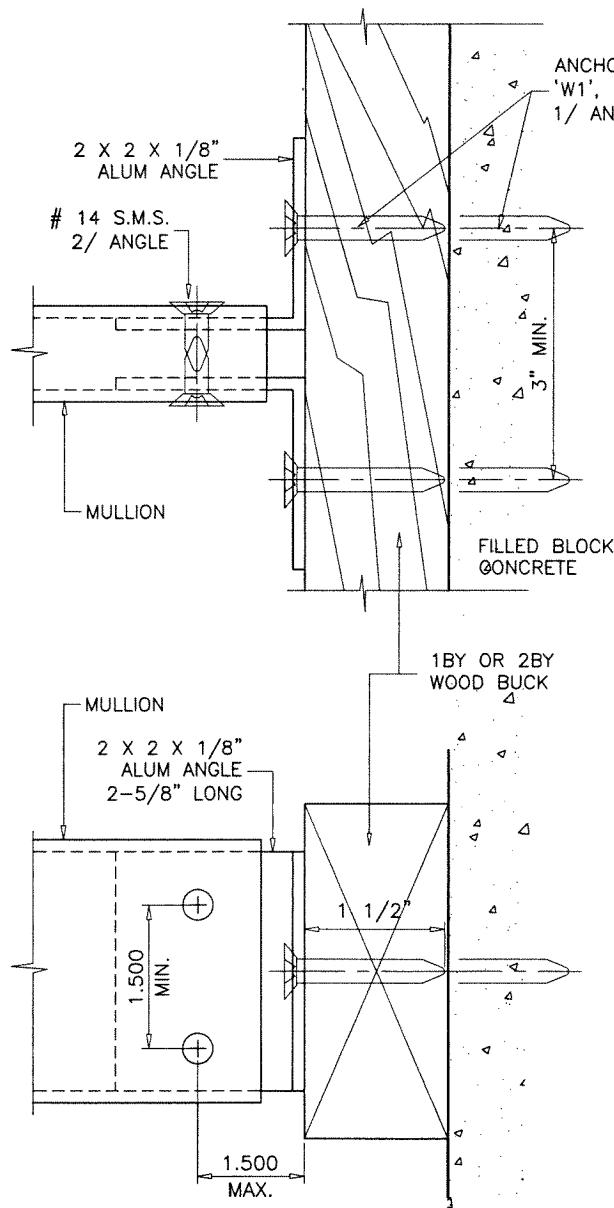
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

ALUMINUM TUBE MULLIONS

Pino's Window Corp.
6860 N.W. 75th Street
Medley, FL. 33166
Tel. (305) 888-9946 Fax (305) 888-8079

revisions:	no	date	description	by
	D	02.20.12	ANCHOR CHARTS REV.	
	E	11.26.19	UPDATED TO 2017 FBC	
	F	02.28.20	NO CHANGE THIS SHEET	
	G	11.05.20	UPDATED TO 2020 FBC	
	H	06.08.22	REV. PER RER COMMENTS	

date: 12-07-95	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
drawing no.	M95-18A	sheet 3 of 7	



PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 20-0109.06

Expiration Date 06/23/2023

By Ishaq I. Chank
Miami-Dade Product Control

ANCHORS:

TYPE 'W1'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
WITH 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

TYPE 'WB1'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
THRU 1BY WOOD BUCKS INTO MASONRY
WITH 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'WC1'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
THRU 1BY WOOD BUCKS INTO CONCRETE
WITH 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

ANCHORS:

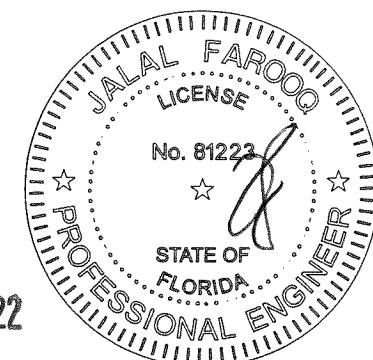
TYPE 'B1'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO MASONRY
WITH 1-3/4" MIN. EMBED INTO FILLED BLOCK (JAMBS)

TYPE 'C1'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
WITH 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN.

WOOD BUCKS NOT BY 'PINO'S WINDOW'
MUST SUSTAIN LOADS IMPOSED.



JUN 10 2022

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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MULLION M95-18A

ALUMINUM TUBE MULLIONS

Pino's Window Corp.
6860 N.W. 75th Street
Medley, FL. 33166
Tel. (305) 888-9946 Fax (305) 888-8079

no	date	by	description
D	02.20.12	ANCHORS REV.	UPDATED TO 2017 FBC
E	11.26.19		NO CHANGE THIS SHEET
F	02.28.20		UPDATED TO 2020 FBC
G	11.05.20		NO CHANGE THIS SHEET
H	06.08.22		NO CHANGE THIS SHEET

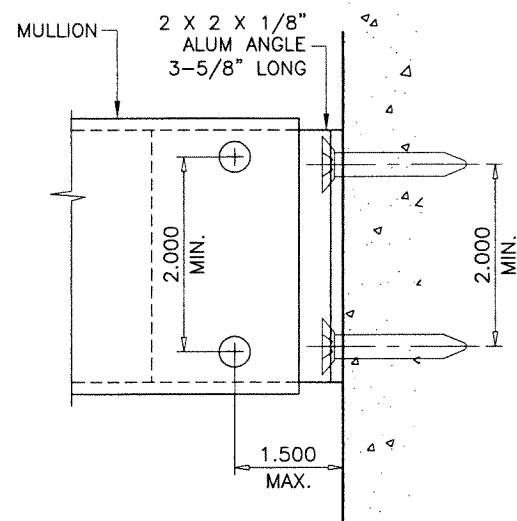
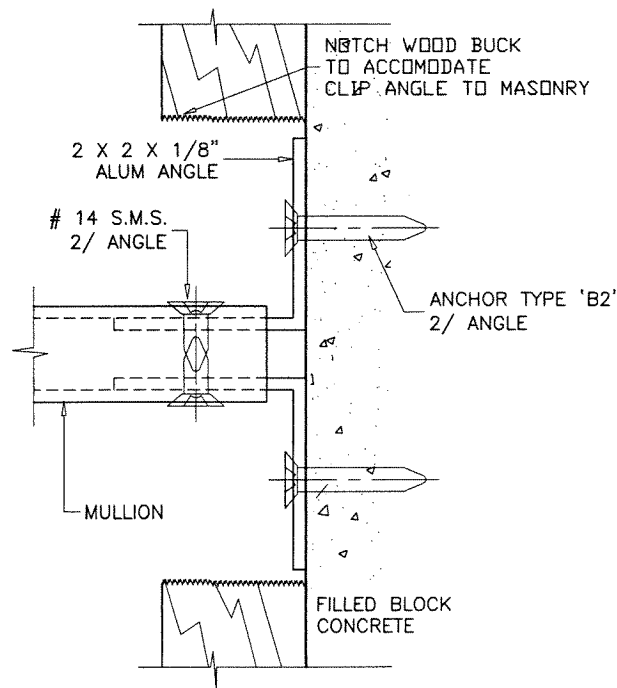
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dr. by:	TARIQ
chk. by:	

drawing no.

M95-18A

sheet 4 of 7

MULLION\M95-18A



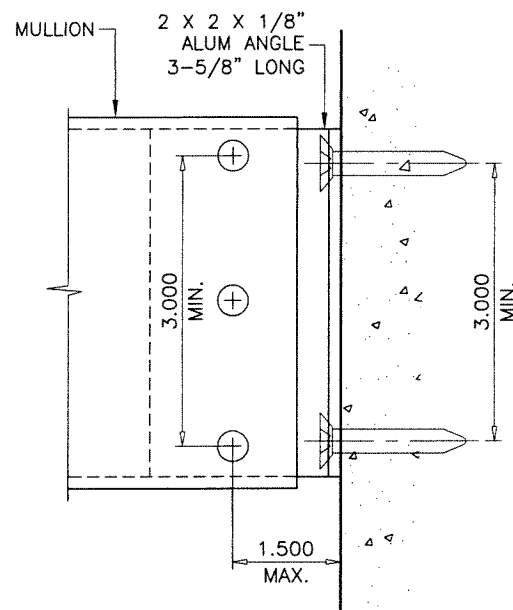
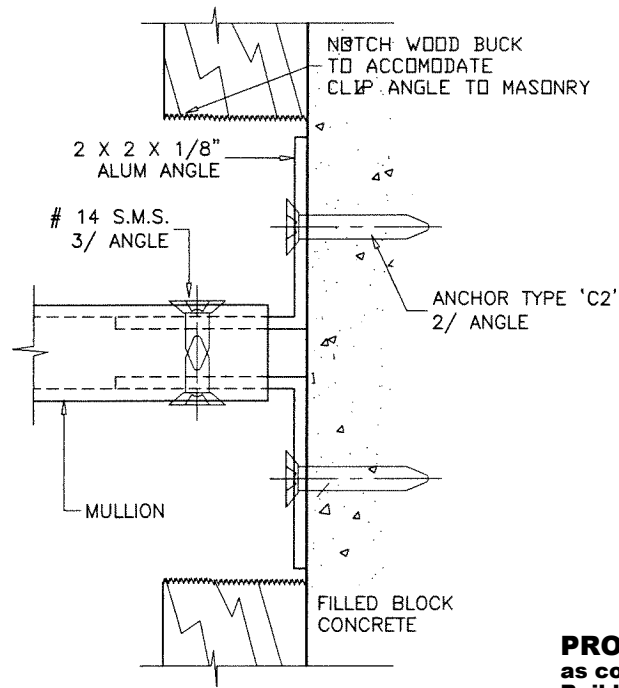
ANCHORS:

TYPE 'B2'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
DIRECTLY INTO MASONRY
WITH 1-3/4" MIN. EMBED INTO FILLED BLOCK (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'_c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'_m = 2000 PSI MIN.



TYPE 'C2'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
DIRECTLY INTO CONCRETE
WITH 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

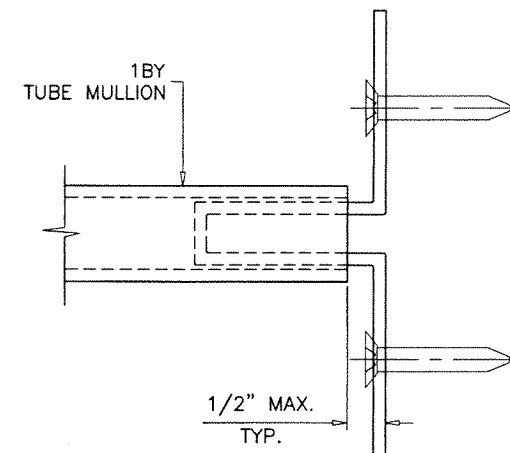
ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN.

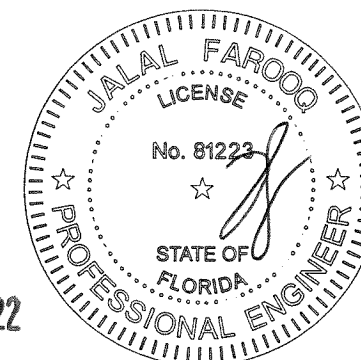
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 20-0109.06

Expiration Date 06/23/2023

By Ishag I. Chank
Miami-Dade Product Control



FLOATING MULLION CLIPS
ALTERNATE TO ANGLES ALL CASES
CLIPS TO FIT SNUG INTO TUBE MULLIONS



JUN 10 2022

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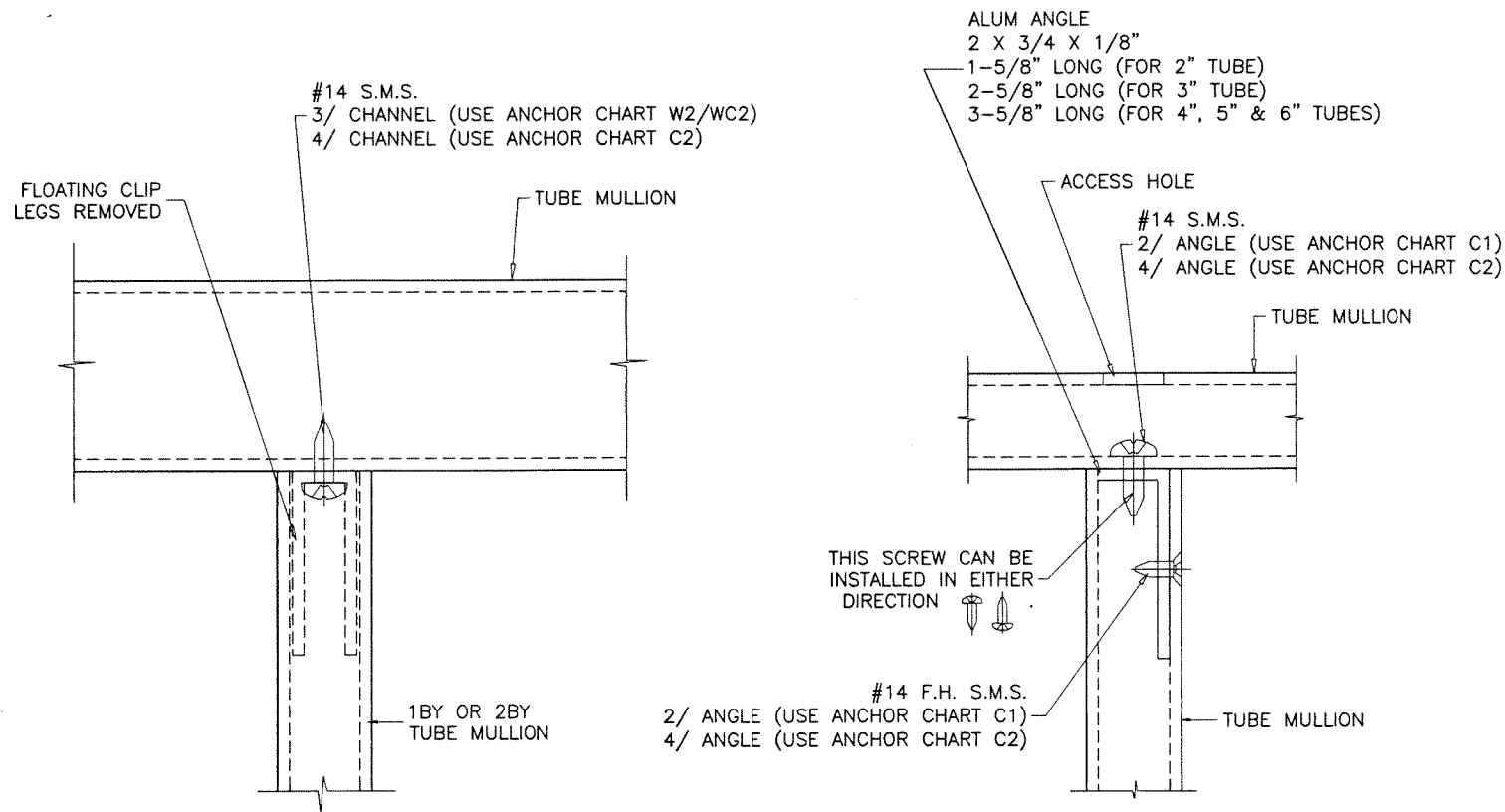
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	E	11.26.19		UPDATED TO 2017 FBC
	F	02.28.20		NO CHANGE THIS SHEET
	G	11.05.20		UPDATED TO 2020 FBC
	H	06.08.22		NO CHANGE THIS SHEET

date:	12-07-95
scale:	1/2" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.

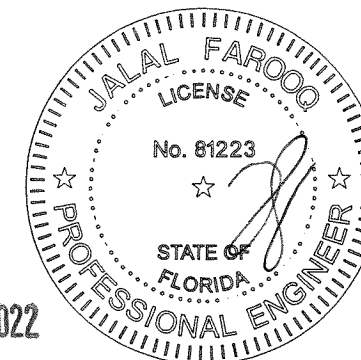
M95-18A

sheet 6 of 7



ANCHORS DETAIL #1
METAL TO METAL CONNECTION

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revisions:

no	date	by	description
D	02.20.12		ANCHORS REV.
E	11.26.19		UPDATED TO 2017 FBC
F	02.28.20		NO CHANGE THIS SHEET
G	11.05.20		UPDATED TO 2020 FBC
H	06.08.22		NO CHANGE THIS SHEET

date: 12-07-95
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
M95-18A
sheet 7 of 7