



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
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

RC Home Showcase, Inc.
16115 NW 52nd Avenue
Miami, FL 33014

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 "ML-100" Aluminum Tube Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W04-05 Rev H**, titled "Aluminum Tube Mullions", sheets 1 through 7 of 7, dated 05/02/04 and last revised on DEC 14, 2020, prepared by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises** NOA No. **19-0312.02** and consists of this page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



Ishaq I. Chanda

NOA No. 20-1216.17
Expiration Date: August 19, 2024
Approval Date: January 28, 2021
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 04-0608.05 and 09-0128.14)
2. Drawing No. **W04-05**, titled "Aluminum Tube Mullions", sheets 1 through 7 of 7, dated 05/02/04, with revision **G** dated 03/01/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. *(Submitted under NOA No. 18-0222.09)*

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
along with marked-up drawings and installation diagram of aluminum single hung windows mulled together, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4024**, dated 01/14/04, signed and sealed by Edmundo J. Largaespada, P.E. *(Submitted under NOA No. 04-0608.05)*
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of aluminum fixed and casement windows mulled together, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-03-1346**, dated 09/16/03, signed and sealed by Rafael E. Droz-Seda, P.E. *(Submitted under NOA No. 04-0608.05)*

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 02/26/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. *(Submitted under NOA No. 18-0222.09)*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, and of no financial interest, dated February 26, 2018, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E. *(Submitted under NOA No. 18-0222.09)*.

— Ishaq I. Chanda
Ishaq I. Chanda, P.E.
Product Control Unit supervisor
NOA No. 20-1216.17
Expiration Date: August 19, 2024
Approval Date: January 28, 2021

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHERS

1. Notice of Acceptance No. **15-0512.23**, issued to RC Home Showcase, Inc. for their Series “ML-100” Aluminum Tube Mullion – L.M.I., approved on 02/11/16 and expiring on 08/19/19.

2. EVIDENCE SUBMITTED under previous approval.

A. DRAWINGS

1. None.

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. None.

G. OTHERS

1. *Notice of Acceptance No. **18-0222.09**, issued to RC Home Showcase, Inc. for their Series “ML-100” Aluminum Tube Mullion – L.M.I., approved on 04/12/18 and expiring on 08/19/19.*

3. New EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W04-05 Rev H**, titled “Aluminum Tube Mullions”, sheets 1 through 7 of 7, dated 05/02/04 and last revised on DEC 14, 2020, 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 with **FBC 7th Edition (2020)**, dated 12/15/20, 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 (

Ishaq I. Chanda

Ishaq I. Chanda, P.E.

Product Control Unit Supervisor

NOA No. 20-1216.17

Expiration Date: August 19, 2024

Approval Date: January 28, 2021

RC Home Showcase, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. New EVIDENCE SUBMITTED (continue)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th Edition (2020)**, and of no financial interest, dated 12/15/20, issued by Al-Farooq Corporation, signed and sealed by Jalal Farooq, P.E.

G. OTHERS

1. This NOA revises NOA No. 19-0312.02, expiring 08/19/24.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 19-0312.02
Expiration Date: August 19, 2024
Approval Date: January 28, 2021

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

**RECTANGULAR ALUMINUM TUBE MULLIONS
USING MULLION PROPERTIES ONLY**

NOTES:

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

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 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

INSTRUCTIONS:

USE CHARTS AND GRAPHS AS FOLLOWS.

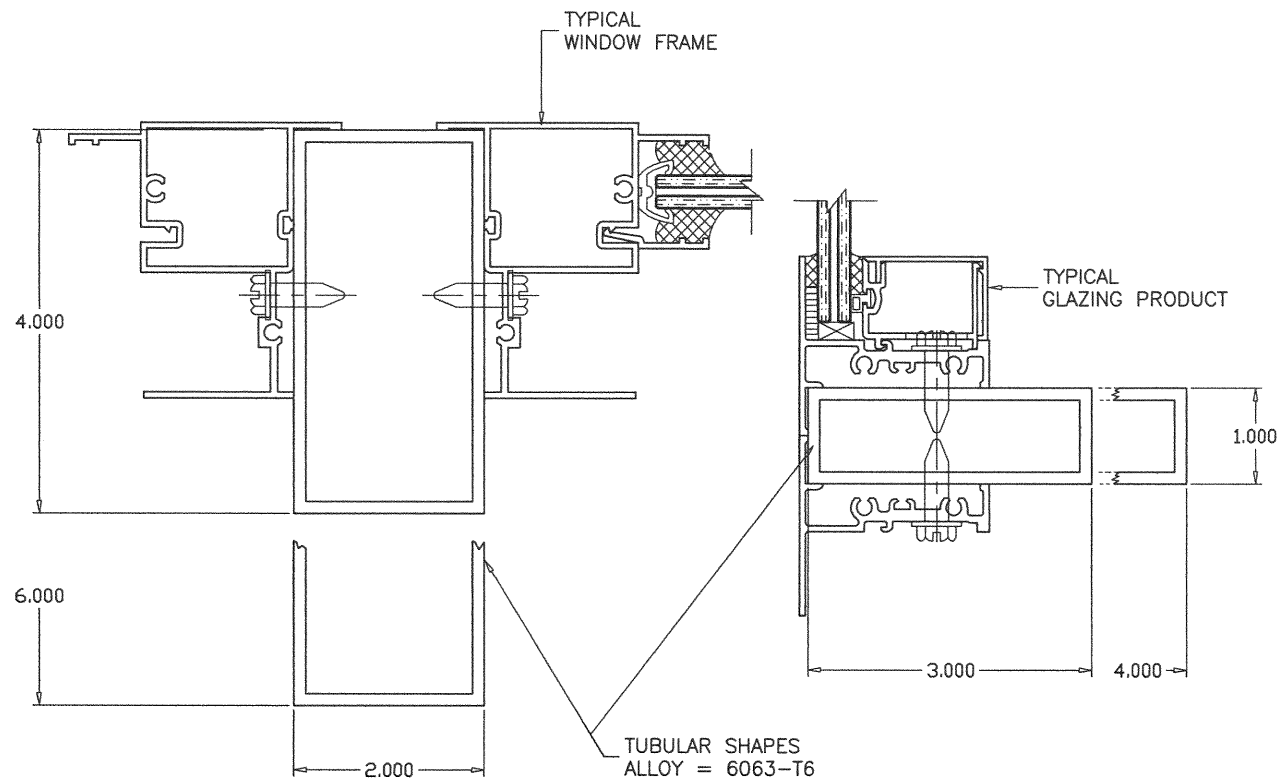
STEP 1 DETERMINE DESIGN LOAD REQUIRED PER ASCE 7
FOR PARTICULAR OPENING.

STEP 2 USE APPROVED GLAZING PRODUCTS MEETING ABOVE LOAD
REQUIREMENTS.

STEP 3 USE CONNECTION TO MULLION AS PER PRODUCT
APPROVAL.

STEP 4 USING CHARTS ON SHEET 3 SELECT MULLION SIZE WITH
DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED
IN STEP 1 ABOVE.

STEP 5 USING ANCHOR TYPES ON SHEET 5 THRU 7 AND ANCHOR CHARTS
ON SHEET 4, SELECT ANCHOR TYPE WITH DESIGN RATING
MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.



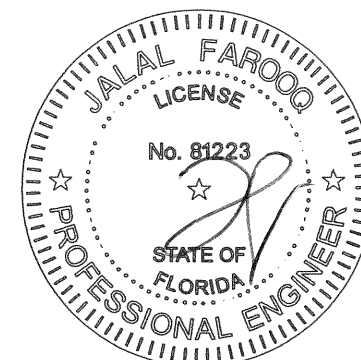
**MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS
HORIZONTAL OR VERTICAL**

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1216.17

Expiration Date 08/19/2024

By *Ishag I. Chank*
Miami-Dade Product Control



DEC 14 2020

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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
MULLION\ M04-05RC

ALUMINUM TUBE MULLIONS

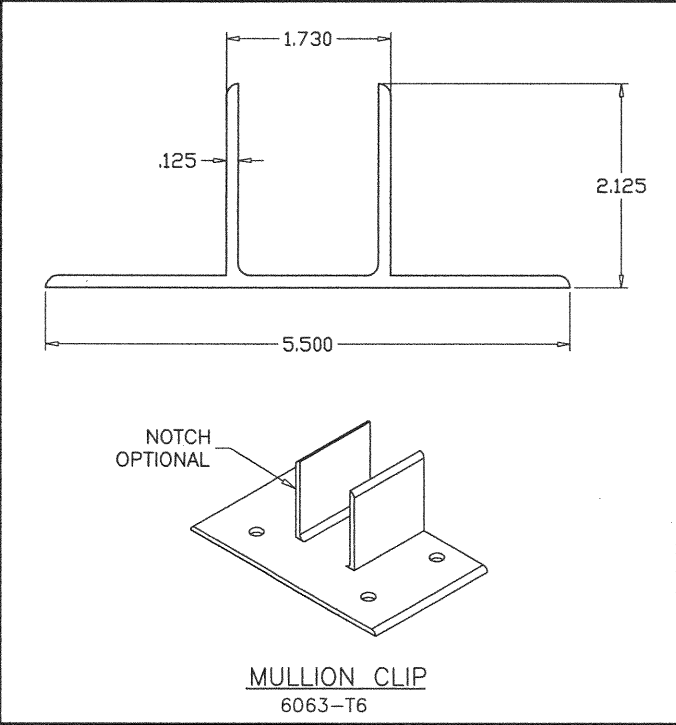
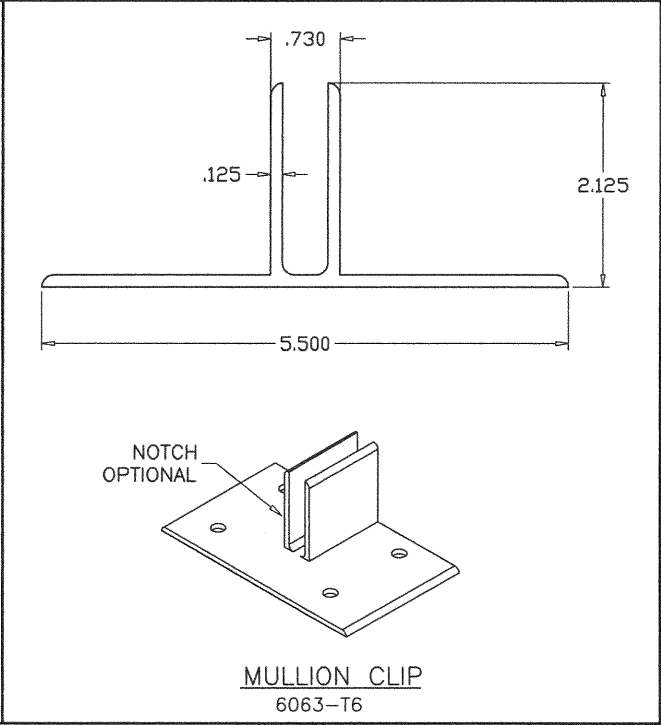
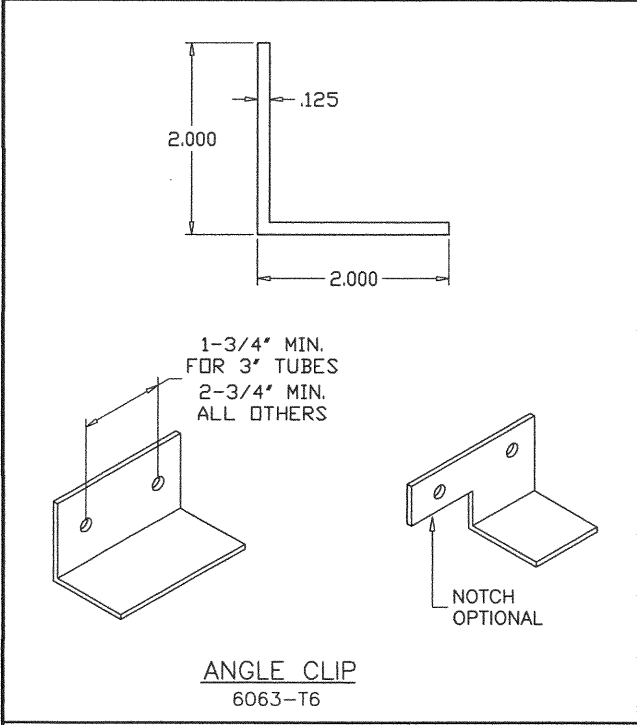
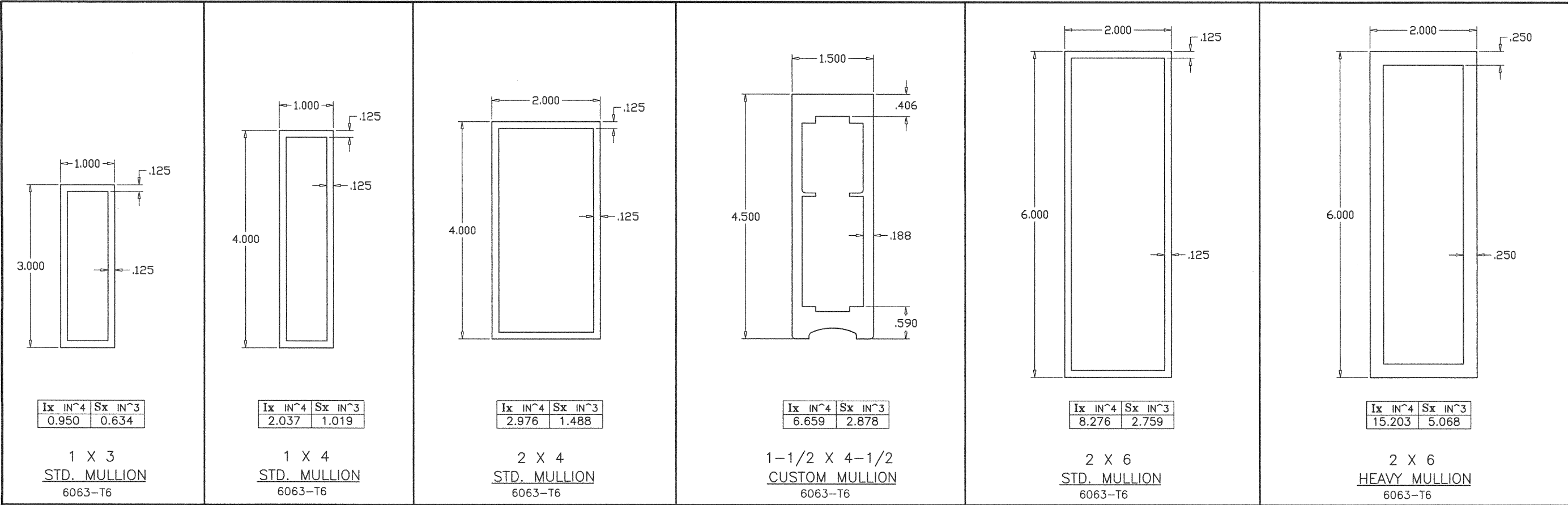
RC Home Showcase, Inc.
16115 NW 52nd Ave.
Miami, FL. 33014
TEL. (305) 392-6214 FAX. (305) 260-6432

revisions:		no	date	by	description
E	10.10.13				MANUF. NAME REV.
F	04.16.15				UPDATED TO 2014 FBC
G	03.01.18				UPDATED TO 2017 FBC
H	11.30.20				UPDATED TO 2020 FBC

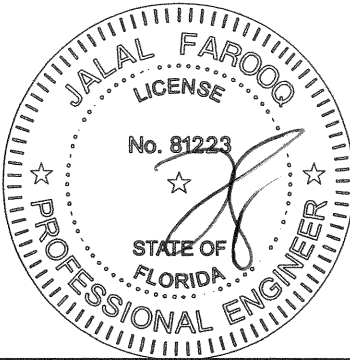
date: 05-02-04
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
M04-05

sheet 1 of 7



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-1216.17
Expiration Date 08/19/2024
By Ishaq I. Chande
Miami-Dade Product Control



DEC 14 2020

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
MULLION M04-M05RC

ALUMINUM TUBE MULLIONS
RC Home Showcase, Inc.
16115 NW 52nd Ave.
Miami, FL. 33014
TEL. (305) 392-6214 FAX. (305) 260-6432

revisions:	no.	date	by	description
	E	10.10.13		MANUF. NAME REV.
	F	04.16.15		NO CHANGE THIS SHEET
	G	03.01.18		UPDATED TO 2017 FBC
	H	11.30.20		UPDATED TO 2020 FBC

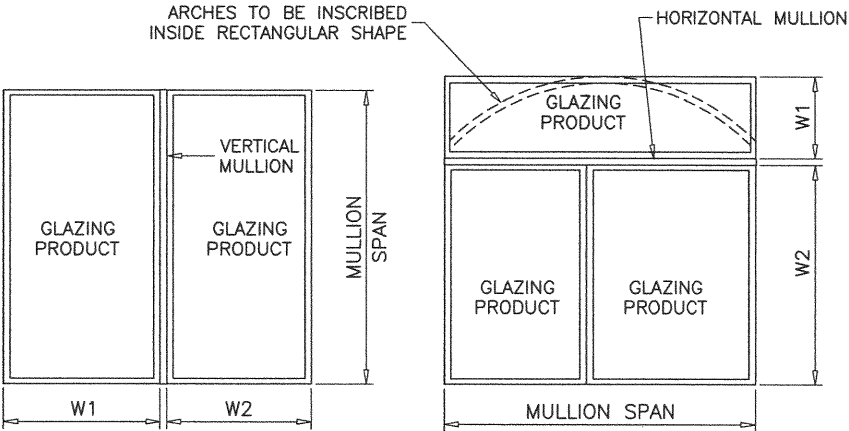
date: 05-02-04
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
M04-05
sheet 2 of 7

DESIGN LOAD CAPACITY – PSF (TUBE MULLIONS)							
WINDOW DIMS.		1 X 3	1 X 4	2 X 4	1-1/2 X 4-1/2 CUSTOM	2 X 6	2 X 6 HEAVY
WIDTH (W)	MULL SPAN	STD.	STD.	STD.		STD.	
19-1/8"	38-3/8"	150.0	150.0	150.0	150.0	150.0	150.0
26-1/2"		150.0	150.0	150.0	150.0	150.0	150.0
30"		150.0	150.0	150.0	150.0	150.0	150.0
37"		150.0	150.0	150.0	150.0	150.0	150.0
42"		150.0	150.0	150.0	150.0	150.0	150.0
48"		140.7	150.0	150.0	150.0	150.0	150.0
54"		125.0	150.0	150.0	150.0	150.0	150.0
60"		112.5	150.0	150.0	150.0	150.0	150.0
66"		102.3	150.0	150.0	150.0	150.0	150.0
72"		93.8	149.4	150.0	150.0	150.0	150.0
19-1/8"	50-5/8"	150.0	150.0	150.0	150.0	150.0	150.0
26-1/2"		144.0	150.0	150.0	150.0	150.0	150.0
30"		127.2	150.0	150.0	150.0	150.0	150.0
37"		103.1	150.0	150.0	150.0	150.0	150.0
42"		90.8	144.5	150.0	150.0	150.0	150.0
48"		79.5	126.4	150.0	150.0	150.0	150.0
54"		70.6	112.4	150.0	150.0	150.0	150.0
60"		63.6	101.2	150.0	150.0	150.0	150.0
66"		57.8	92.0	142.4	150.0	150.0	150.0
72"		53.0	84.3	130.5	150.0	150.0	150.0
19-1/8"	60"	140.4	150.0	150.0	150.0	150.0	150.0
26-1/2"		101.3	150.0	150.0	150.0	150.0	150.0
30"		89.5	142.2	150.0	150.0	150.0	150.0
37"		72.6	115.3	150.0	150.0	150.0	150.0
42"		63.9	101.6	150.0	150.0	150.0	150.0
48"		55.9	88.9	138.4	150.0	150.0	150.0
54"		49.7	79.0	123.0	150.0	150.0	150.0
60"		44.7	71.1	110.7	150.0	150.0	150.0
66"		40.7	64.6	100.7	150.0	150.0	150.0
72"		37.3	59.3	92.3	150.0	150.0	150.0
19-1/8"	63"	123.3	150.0	150.0	150.0	150.0	150.0
26-1/2"		89.0	145.4	150.0	150.0	150.0	150.0
30"		78.6	128.5	150.0	150.0	150.0	150.0
37"		63.7	104.2	150.0	150.0	150.0	150.0
42"		56.1	91.8	143.2	150.0	150.0	150.0
48"		49.1	80.3	125.3	150.0	150.0	150.0
54"		43.7	71.4	111.4	150.0	150.0	150.0
60"		39.3	64.2	100.2	150.0	150.0	150.0
66"		35.7	58.4	91.1	150.0	150.0	150.0
72"		32.8	53.5	83.5	150.0	150.0	150.0

DESIGN LOAD CAPACITY – PSF (TUBE MULLIONS)							
WINDOW DIMS.		1 X 3	1 X 4	2 X 4	1-1/2 X 4-1/2 CUSTOM	2 X 6	2 X 6 HEAVY
WIDTH (W)	MULL SPAN	STD.	STD.	STD.		STD.	
19-1/8"	74-1/4"	75.3	143.1	150.0	150.0	150.0	150.0
26-1/2"		54.4	103.3	150.0	150.0	150.0	150.0
30"		48.0	91.2	143.2	150.0	150.0	150.0
37"		38.9	74.0	116.1	150.0	150.0	150.0
42"		34.3	65.2	102.3	150.0	150.0	150.0
48"		30.0	57.0	89.5	150.0	150.0	150.0
54"		26.7	50.7	79.6	142.3	146.2	150.0
60"		24.0	45.6	71.6	128.1	131.6	150.0
66"		21.8	41.5	65.1	116.5	119.6	150.0
72"		–	38.0	59.7	106.8	109.7	150.0
19-1/8"	84"	52.0	110.5	150.0	150.0	150.0	150.0
26-1/2"		37.5	79.8	117.6	150.0	150.0	150.0
30"		33.2	70.5	103.9	150.0	150.0	150.0
37"		26.9	57.1	84.2	150.0	150.0	150.0
42"		23.7	50.3	74.2	150.0	145.9	150.0
48"		20.7	44.0	64.9	141.3	127.7	150.0
54"		–	39.1	57.7	123.6	113.5	150.0
60"		–	35.2	51.9	109.9	102.1	150.0
66"		–	32.0	47.2	89.9	92.9	150.0
72"		–	29.4	43.3	82.4	85.1	150.0
19-1/8"	96"	34.8	74.7	109.1	150.0	150.0	150.0
26-1/2"		25.1	53.9	78.8	150.0	150.0	150.0
30"		22.2	47.6	69.6	149.4	150.0	150.0
37"		–	38.6	56.4	121.1	125.8	150.0
42"		–	34.0	49.7	106.7	110.8	150.0
48"		–	29.8	43.5	93.4	97.0	150.0
54"		–	26.5	38.7	83.0	86.2	150.0
60"		–	23.8	34.8	74.7	77.6	142.0
66"		–	21.7	31.6	67.9	70.5	129.0
72"		–	–	29.0	62.2	64.7	118.3
19-1/8"	108"	24.5	52.5	76.7	150.0	150.0	150.0
26-1/2"		–	37.9	55.3	123.8	137.8	150.0
30"		–	33.5	48.9	109.3	121.7	150.0
37"		–	27.1	39.6	88.7	98.7	150.0
42"		–	23.9	34.9	78.1	86.9	150.0
48"		–	20.9	30.5	68.3	76.1	139.1
54"		–	–	27.1	60.7	67.6	123.7
60"		–	–	24.4	54.7	60.8	111.3
66"		–	–	22.2	49.7	55.3	101.2
72"		–	–	20.4	45.6	50.7	92.7

DESIGN LOAD CAPACITY – PSF (TUBE MULLIONS)							
WINDOW DIMS.		1 X 3	1 X 4	2 X 4	1-1/2 X 4-1/2 CUSTOM	2 X 6	2 X 6 HEAVY
WIDTH (W)	MULL SPAN	STD.	STD.	STD.		STD.	
19-1/8"	120"	–	38.3	55.9	125.0	150.0	150.0
26-1/2"		–	27.6	40.3	90.2	110.8	150.0
30"		–	24.4	35.6	79.7	97.9	150.0
37"		–	–	28.9	64.6	79.4	145.1
42"		–	–	25.4	56.9	69.9	127.8
48"		–	–	22.3	49.8	61.2	111.9
54"		–	–	–	44.3	54.4	99.4
60"		–	–	–	39.9	48.9	89.5
66"		–	–	–	36.2	44.5	81.4
72"		–	–	–	33.2	40.8	74.6
19-1/8"	132"	–	28.7	42.0	93.9	116.7	150.0
26-1/2"		–	20.7	30.3	67.8	84.3	150.0
30"		–	–	26.8	59.9	74.4	136.7
37"		–	–	21.7	48.6	60.3	110.9
42"		–	–	–	42.8	53.2	97.7
48"		–	–	–	37.4	46.5	85.5
54"		–	–	–	33.3	41.3	76.0
60"		–	–	–	29.9	37.2	68.4
66"		–	–	–	27.2	33.8	62.1
72"		–	–	–	25.0	31.0	57.0
19-1/8"	144"	–	22.1	32.3	72.4	89.9	150.0
26-1/2"		–	–	23.3	52.2	64.9	119.2
30"		–	–	20.6	46.1	57.3	105.3
37"		–	–	–	37.4	46.5	85.4
42"		–	–	–	33.0	40.9	75.2
48"		–	–	–	28.8	35.8	65.8
54"		–	–	–	25.6	31.8	58.5
60"		–	–	–	23.1	28.7	52.7
66"		–	–	–	21.0	26.1	47.9
72"		–	–	–	–	23.9	43.9



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

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-1216.17

Expiration Date 08/19/2024

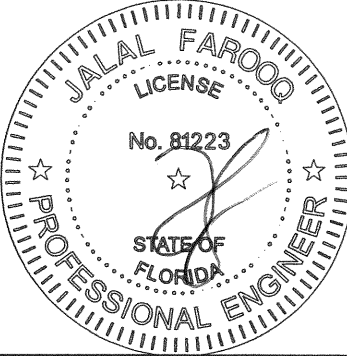
By Ishag I. Chande
Miami-Dade Product Control

TYPICAL MULLION ARRANGEMENTS

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

MULLIONS

DEC 14 2020



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

ALUMINUM TUBE MULLIONS
RC Home Showcase, Inc.
16115 NW 52nd Ave.
Miami, FL. 33014
TEL. (305) 392-6214 FAX. (305) 260-6432

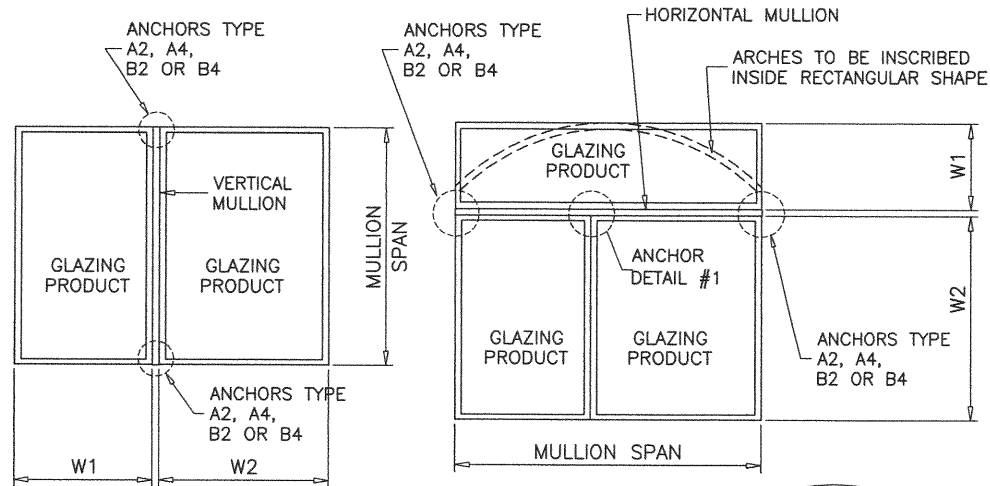
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	F	04.16.15		NO CHANGE THIS SHEET
	G	03.01.18		UPDATED TO 2017 FBC
	H	11.30.20		UPDATED TO 2020 FBC
date:	05-02-04			
scale:				
dr. by:	TARIQ			
chk. by:				
drawing no.	M04-05			
sheet 3 of	7			

MULLION\M04-05RC

DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		ANCHORS TYPE					
WIDTH (W)	MULL SPAN	A2	A4	AA2	AA4	B2	B4
19-1/8"	38-3/8"	137.7	150.0	150.0	150.0	150.0	150.0
26-1/2"		99.4	150.0	142.2	150.0	150.0	150.0
30"		87.8	150.0	125.6	150.0	150.0	150.0
37"		71.2	142.4	101.8	150.0	150.0	150.0
42"		62.7	125.4	89.7	150.0	139.7	150.0
48"		54.9	109.8	78.5	150.0	122.3	150.0
54"		48.8	97.6	69.8	139.5	108.7	150.0
60"		43.9	87.8	62.8	125.6	97.8	150.0
66"		39.9	79.8	57.1	114.2	88.9	150.0
72"		36.6	73.2	52.3	104.7	81.5	150.0
19-1/8"	50-5/8"	104.4	150.0	149.3	150.0	150.0	150.0
26-1/2"		75.4	150.0	107.8	150.0	150.0	150.0
30"		66.6	133.1	95.2	150.0	148.3	150.0
37"		54.0	107.9	77.2	150.0	120.2	150.0
42"		47.5	95.1	68.0	136.0	105.9	150.0
48"		41.6	83.2	59.5	119.0	92.7	150.0
54"		37.0	74.0	52.9	105.8	82.4	150.0
60"		33.3	66.6	47.6	95.2	74.1	148.3
66"		30.3	60.5	43.3	86.5	67.4	134.8
72"		27.7	55.5	39.7	79.3	61.8	123.6
19-1/8"	60"	88.1	150.0	126.0	150.0	150.0	150.0
26-1/2"		63.6	127.2	90.9	150.0	141.6	150.0
30"		56.2	112.3	80.3	150.0	125.1	150.0
37"		45.5	91.1	65.1	130.2	101.4	150.0
42"		40.1	80.2	57.4	114.7	89.4	150.0
48"		35.1	70.2	50.2	100.4	78.2	150.0
54"		31.2	62.4	44.6	89.2	69.5	139.0
60"		28.1	56.2	40.2	80.3	62.6	125.1
66"		25.5	51.1	36.5	73.0	56.9	113.7
72"		23.4	46.8	33.5	66.9	52.1	104.3
19-1/8"	63"	83.9	150.0	120.0	150.0	150.0	150.0
26-1/2"		60.5	121.1	86.6	150.0	134.9	150.0
30"		53.5	107.0	76.5	150.0	119.2	150.0
37"		43.4	86.7	62.0	124.0	96.6	150.0
42"		38.2	76.4	54.6	109.3	85.1	150.0
48"		33.4	66.9	47.8	95.6	74.5	149.0
54"		29.7	59.4	42.5	85.0	66.2	132.4
60"		26.7	53.5	38.2	76.5	59.6	119.2
66"		24.3	48.6	34.8	69.5	54.2	108.3
72"		22.3	44.6	31.9	63.7	49.7	99.3

DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		ANCHORS TYPE					
WIDTH (W)	MULL SPAN	A2	A4	AA2	AA4	B2	B4
19-1/8"	74-1/4"	71.2	142.4	101.8	150.0	150.0	150.0
26-1/2"		51.4	102.8	73.5	147.0	114.5	150.0
30"		45.4	90.8	64.9	129.8	101.1	150.0
37"		36.8	73.6	52.6	105.3	82.0	150.0
42"		32.4	64.8	46.4	92.7	72.2	144.4
48"		28.4	56.7	40.6	81.1	63.2	126.4
54"		25.2	50.4	36.1	72.1	56.2	112.3
60"		22.7	45.4	32.5	64.9	50.6	101.1
66"		20.6	41.3	29.5	59.0	46.0	91.9
72"		-	37.8	27.0	54.1	42.1	84.3
19-1/8"	84"	62.9	125.8	90.0	150.0	140.2	150.0
26-1/2"		45.4	90.8	64.9	129.9	101.2	150.0
30"		40.1	80.2	57.4	114.7	89.4	150.0
37"		32.5	65.1	46.5	93.0	72.5	144.9
42"		28.7	57.3	41.0	82.0	63.8	127.7
48"		25.1	50.1	35.9	71.7	55.9	111.7
54"		22.3	44.6	31.9	63.7	49.7	99.3
60"		20.1	40.1	28.7	57.4	44.7	89.4
66"		-	36.5	26.1	52.2	40.6	81.2
72"		-	33.4	23.9	47.8	37.2	74.5
19-1/8"	96"	55.1	110.1	78.7	150.0	122.7	150.0
26-1/2"		39.7	79.5	56.8	113.7	88.5	150.0
30"		35.1	70.2	50.2	100.4	78.2	150.0
37"		28.5	56.9	40.7	81.4	63.4	126.8
42"		25.1	50.1	35.9	71.7	55.9	111.7
48"		21.9	43.9	31.4	62.8	48.9	97.8
54"		-	39.0	27.9	55.8	43.4	86.9
60"		-	35.1	25.1	50.2	39.1	78.2
66"		-	31.9	22.8	45.6	35.5	71.1
72"		-	29.3	20.9	41.8	32.6	65.2
19-1/8"	108"	48.9	97.9	70.0	140.0	109.0	150.0
26-1/2"		35.3	70.6	50.5	101.0	78.7	150.0
30"		31.2	62.4	44.6	89.2	69.5	139.0
37"		25.3	50.6	36.2	72.4	56.4	112.7
42"		22.3	44.6	31.9	63.7	49.7	99.3
48"		-	39.0	27.9	55.8	43.4	86.9
54"		-	34.7	24.8	49.6	38.6	77.2
60"		-	31.2	22.3	44.6	34.8	69.5
66"		-	28.4	20.3	40.6	31.6	63.2
72"		-	26.0	-	37.2	29.0	57.9

DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		ANCHORS TYPE					
WIDTH (W)	MULL SPAN	A2	A4	AA2	AA4	B2	B4
19-1/8"	120"	44.0	88.1	63.0	126.0	98.1	150.0
26-1/2"		31.8	63.6	45.5	90.9	70.8	141.6
30"		28.1	56.2	40.2	80.3	62.6	125.1
37"		22.8	45.5	32.6	65.1	50.7	101.4
42"		20.1	40.1	28.7	57.4	44.7	89.4
48"		-	35.1	25.1	50.2	39.1	78.2
54"		-	31.2	22.3	44.6	34.8	69.5
60"		-	28.1	20.1	40.2	31.3	62.6
66"		-	25.5	-	36.5	28.4	56.9
72"		-	23.4	-	33.5	26.1	52.1
19-1/8"	132"	40.0	80.1	57.3	114.5	89.2	150.0
26-1/2"		28.9	57.8	41.3	82.7	64.4	128.8
30"		25.5	51.1	36.5	73.0	56.9	113.7
37"		20.7	41.4	29.6	59.2	46.1	92.2
42"		-	36.5	26.1	52.2	40.6	81.2
48"		-	31.9	22.8	45.6	35.5	71.1
54"		-	28.4	20.3	40.6	31.6	63.2
60"		-	25.5	-	36.5	28.4	56.9
66"		-	23.2	-	33.2	25.9	51.7
72"		-	21.3	-	30.4	23.7	47.4
19-1/8"	144"	36.7	73.4	52.5	105.0	81.8	150.0
26-1/2"		26.5	53.0	37.9	75.8	59.0	118.0
30"		23.4	46.8	33.5	66.9	52.1	104.3
37"		-	37.9	27.1	54.3	42.3	84.5
42"		-	33.4	23.9	47.8	37.2	74.5
48"		-	29.3	20.9	41.8	32.6	65.2
54"		-	26.0	-	37.2	29.0	57.9
60"		-	23.4	-	33.5	26.1	52.1
66"		-	21.3	-	30.4	23.7	47.4
72"		-	-	-	27.9	21.7	43.4



TYPICAL MULLION ARRANGEMENTS

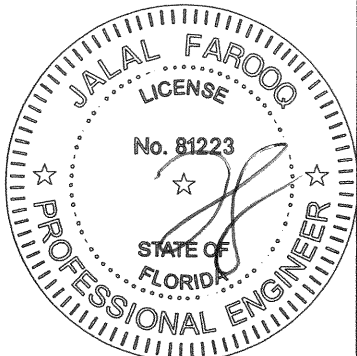
$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

PRODUCT REVISED
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Building Code
NOA-No. 20-1216.17
Expiration Date 08/19/2024
By Ishag I. Chank
Miami-Dade Product Control

ANCHORS

NOTE:
ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER
LOCATIONS AT HEAD, SILL OR JAMB ENDS.
FOR ANCHORS DESCRIPTION SEE SHEETS 5 THRU 7.
(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

DEC 14 2020



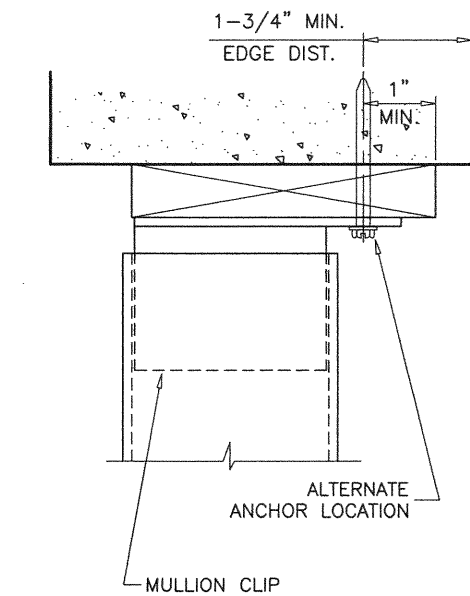
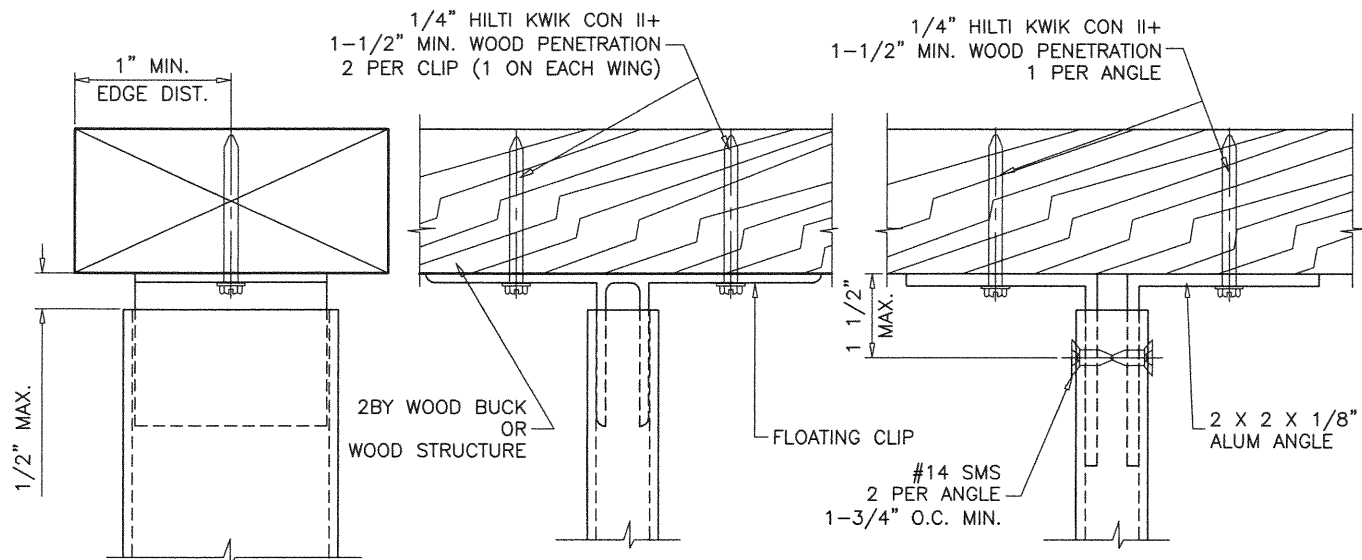
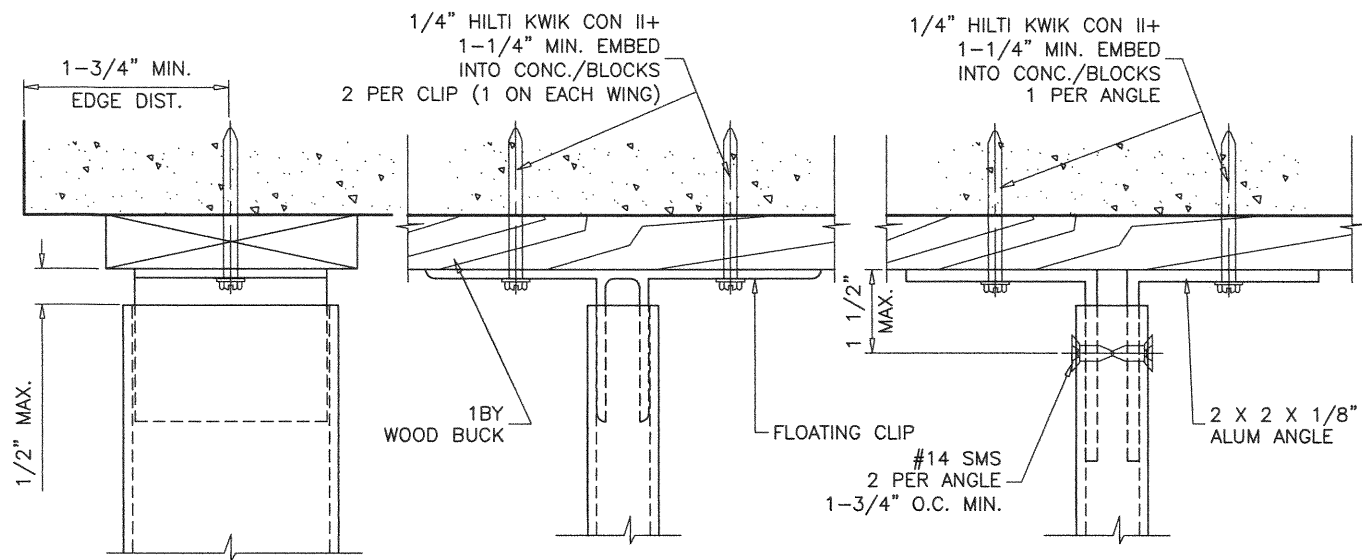
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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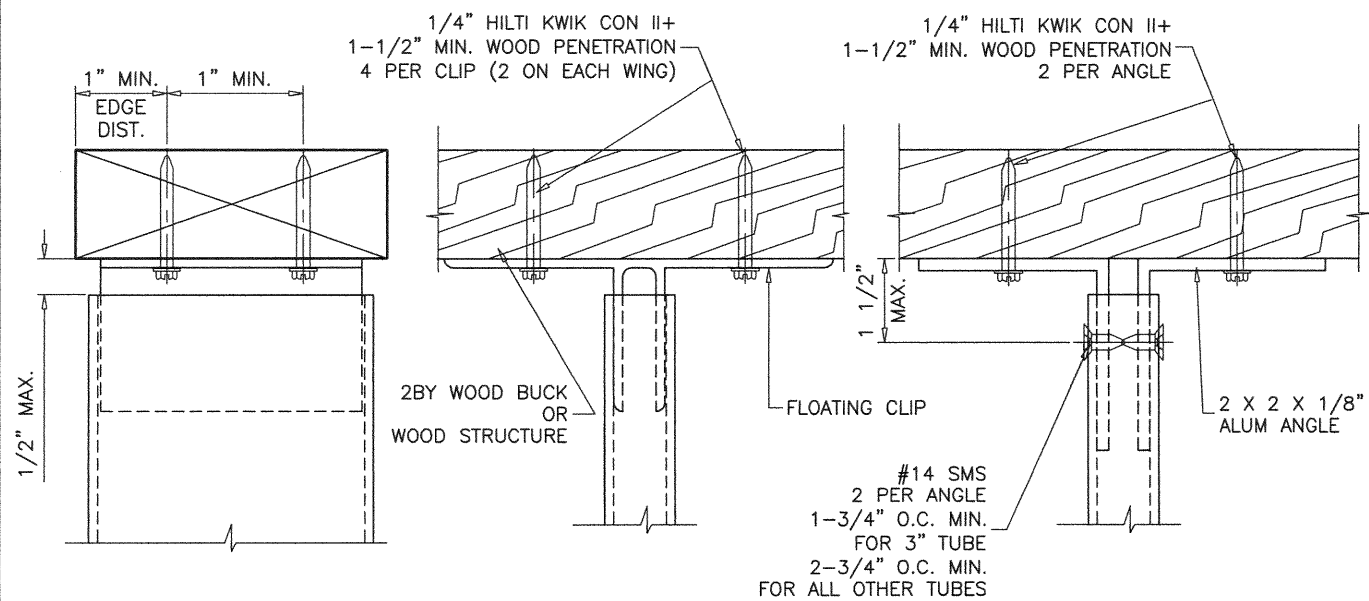
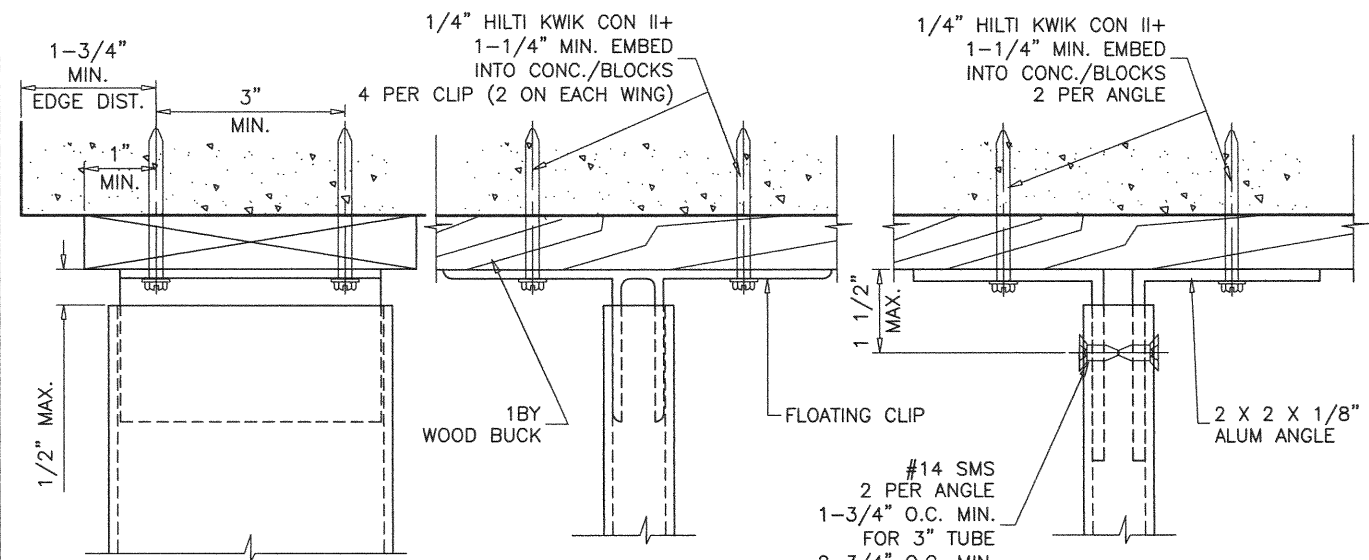
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	G	03.01.18		UPDATED TO 2017 FBC
	H	11.30.20		UPDATED TO 2020 FBC

date:	05-02-04
scale:	
dr. by:	TARIQ
chk. by:	

drawing no.
M04-05
sheet 4 of 7



ANCHORS TYPE 'A2'



ANCHORS TYPE 'A4'

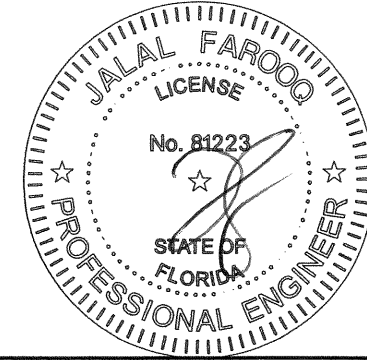
PRODUCT REVISED
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NOA-No. 20-1216.17

Expiration Date 08/19/2024

By Ishaq I. Chanda
Miami-Dade Product Control

ALL CLIPS TO FIT SNUG INTO TUBE MULLIONS.
TAPCONS MAY BE HEX OR FLAT HEAD.

DEC 14 2020



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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MULLION M04-05RC

ALUMINUM TUBE MULLIONS

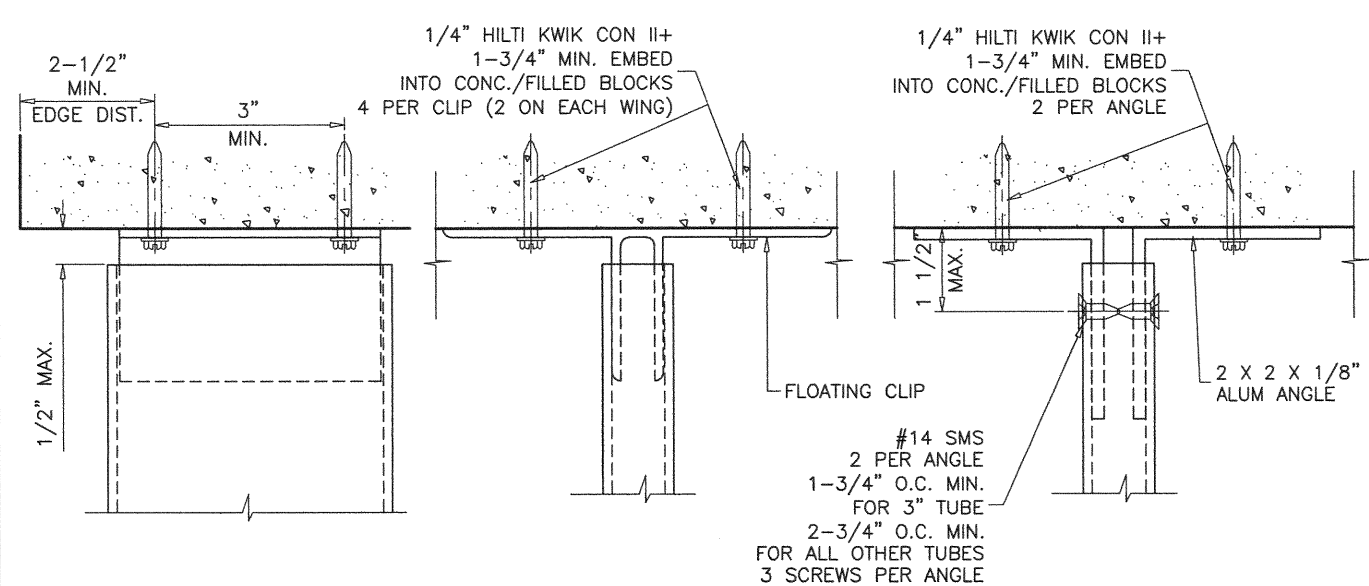
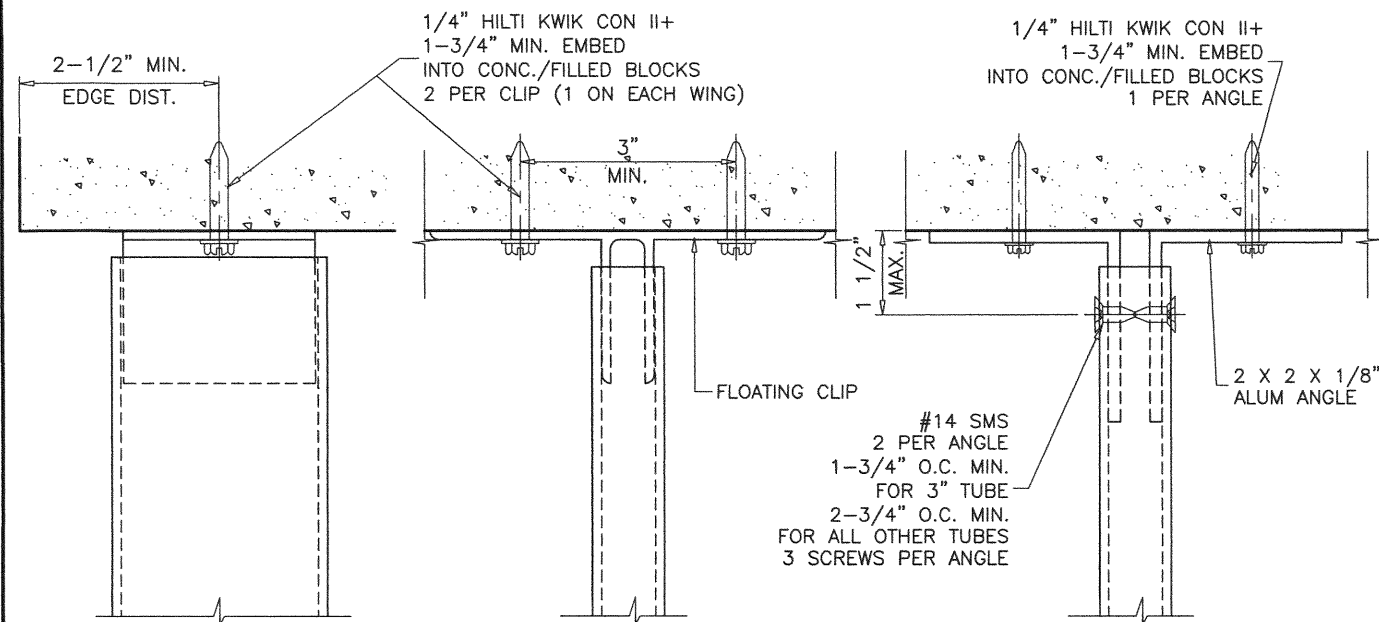
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revisions:

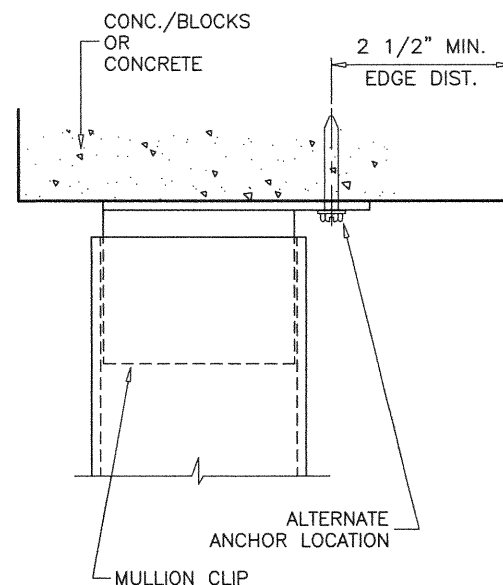
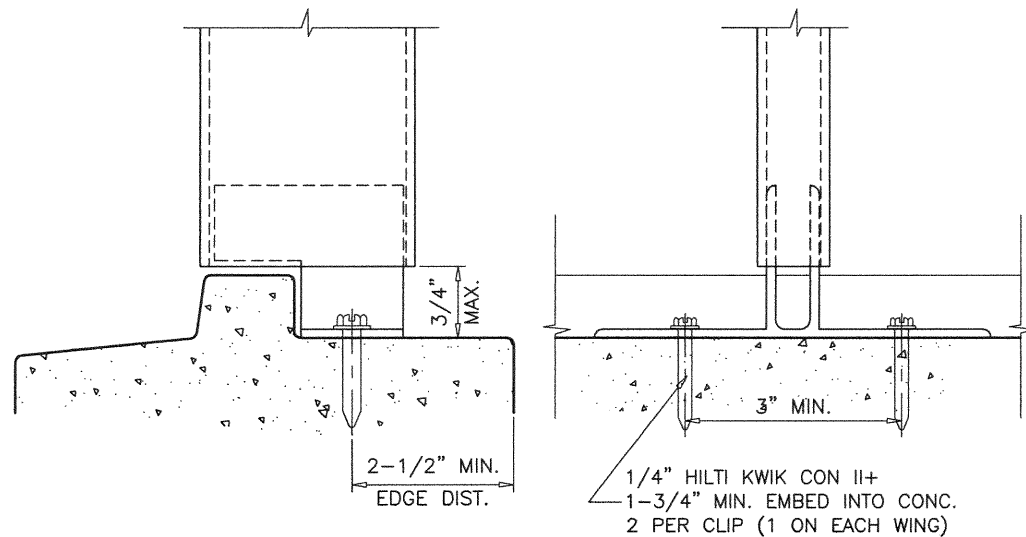
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date: 05-02-04
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
M04-05
sheet 5 of 7



ANCHORS TYPE 'AA4'



ANCHORS TYPE 'AA2'

ALL CLIPS TO FIT SNUG INTO TUBE MULLIONS.
TAPCONS MAY BE HEX OR FLAT HEAD.

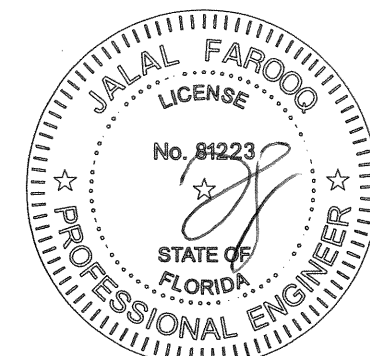
CLIPS OR ANGLES CONNECTED DIRECTLY TO CONC./BLOCKS TO BE PROTECTED
WITH ALKALI-RESISTANT COATINGS, SUCH AS BITUMINOUS PAINT OR
WATER-WHITE METHACRYLATE LACQUER.

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By *Ishaq I. Chande*
Miami-Dade Product Control

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TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION M04-05RC

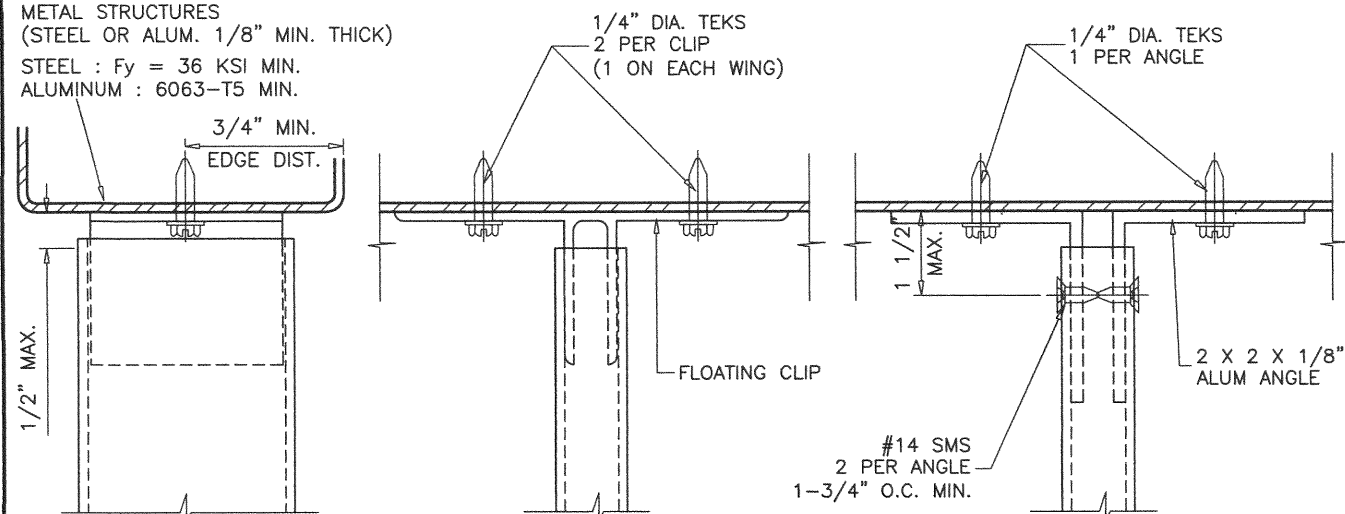
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date: 05-02-04
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

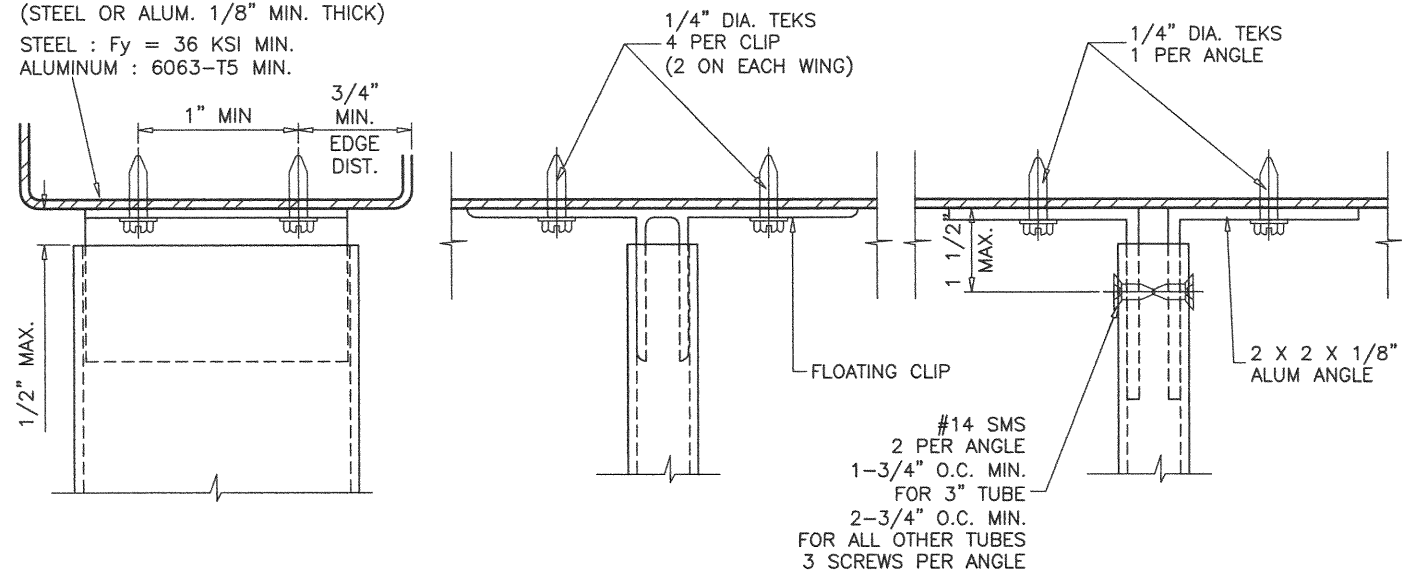
drawing no.
M04-05
sheet 6 of 7

METAL STRUCTURES
(STEEL OR ALUM. 1/8" MIN. THICK)
STEEL : $F_y = 36$ KSI MIN.
ALUMINUM : 6063-T5 MIN.

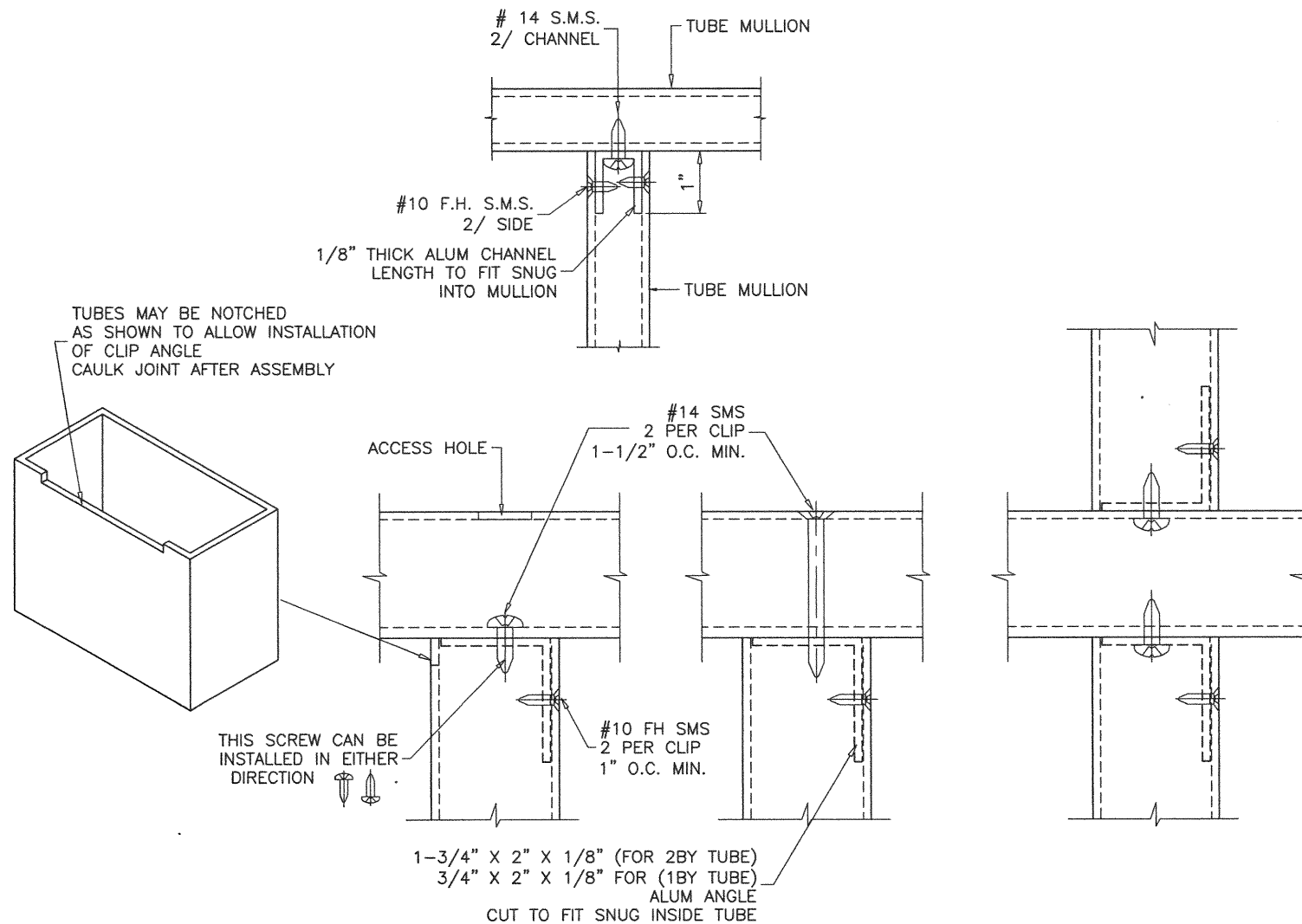


ANCHORS TYPE 'B2'

METAL STRUCTURES
(STEEL OR ALUM. 1/8" MIN. THICK)
STEEL : $F_y = 36$ KSI MIN.
ALUMINUM : 6063-T5 MIN.



ANCHORS TYPE 'B4'



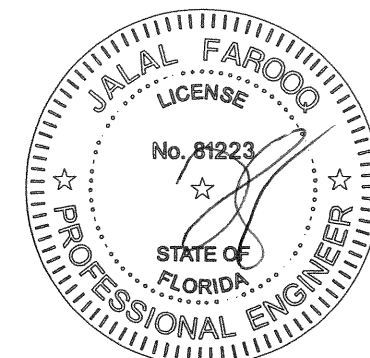
ANCHOR DETAIL #1

METAL TO METAL CONNECTION
USE CHARTS FOR ANCHOR TYPE 'B4' TO VERIFY CAPACITY OF CONNECTION
SEE SHEET 4 OF 7 FOR ANCHOR CHARTS

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By *Ishaq I. Chande*
Miami-Dade Product Control



DEC 14 2020

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date: 05-02-04
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
M04-05

sheet 7 of 7

MULLION\M04-05RC