

CLIPPED ALUMINUM MULLION  
WINDOW FRAME MEMBER INCLUDED IN PROPERTIES

ZERO MULLION (22029) TO BE USED WITH SERIES 250  
FIXED AND HORIZONTAL ROLLER WINDOWS  
1 X 3 X 1/8 TUBE MULLION (57555) TO BE USED WITH  
CONTINENTAL PICTURE WINDOW, CASEMENT, PROJECTED WINDOWS,  
SERIES 250 PICTURE WINDOW, HORIZONTAL ROLLER AND SINGLE  
HUNG.  
FOR WINDOWS IMPACT AND LOAD RATINGS SEE  
CORRESPONDING FLORIDA PRODUCT APPROVALS.  
LOWER DESIGN PRESSURE FROM WINDOW APPROVALS  
OR MULLION CHARTS WILL APPLY TO ENTIRE SYSTEM.

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE  
REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH 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 2020/2023 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)’.

MANUFACTURER’S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION  
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.  
LABELING TO COMPLY WITH SECTION 1709.9.2.

MULLIONS MAY BE USED TO ATTACH TWO OR MORE WINDOWS TOGETHER

THESE MULLIONS ARE RATED FOR LARGE & SMALL MISSILE IMPACT

INDEX OF DRAWING	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES, INSTRUCTIONS AND INDEX OF DRAWINGS
2	PARTS DRAWING
3	1 X 3 X 1/8" ALUM TUBE MULLION WITH SERIES CONTINENTAL/250 FRAMES
4	1 X 3 X 1/8" ALUM TUBE MULLION WITH SERIES CONTINENTAL/250 FRAMES
5	1 X 3 X 1/8" ALUM TUBE MULLION WITH SERIES CONTINENTAL/250 FRAMES
6	DESIGN LOAD CAPACITY TABLE 1 X 3 X 1/8" ALUM TUBE MULLION WITH SERIES CONTINENTAL/250 FRAMES
7	DESIGN LOAD CAPACITY TABLE ZERO MULLION WITH SERIES 250 FRAMES
8	ANCHORING DETAILS FOR 1 X 3 X1/8" ALUM TUBE AND ZERO MULLION AND SERIES CONTINENTLA/250 FRAMES

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7  
FOR PARTICULAR OPENING.
- STEP 2** USE CONNECTION OF WINDOWS TO MULLION AS PER  
PRODUCT APPROVAL.
- STEP 3** USING CHARTS ON SHEETS 6 AND 7 SELECT MULLION TYPE  
WITH DESIGN RATING MORE THAN  
THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** SELECT ANCHOR QUANTITIES ON SHEET 8  
WITH ANCHOR TYPE AND SUBSTRATE DESIGN
- STEP 5** CAPACITY OF SELECTED AIR MASTER WINDOWS AND MULLION  
MUST EQUAL OR EXCEED REQUIRED LOADS.

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND  
INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION  
PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED  
ON THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF  
ALTERED BY ANY MEANS.

C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED  
ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.)  
FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER  
USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED  
ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE  
SPECIFIC DRAWINGS FOR REVIEW.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF  
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

Sealed: 10/16/2023

FL #26358



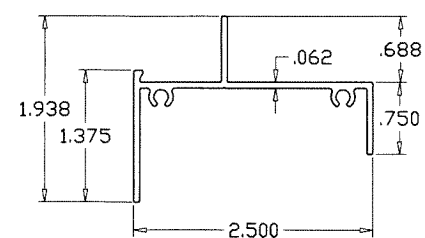
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)

CLIPPED ALUM MULLION

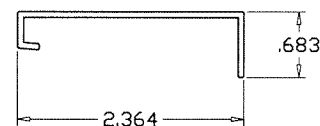
**AIR MASTER**  
windows and doors  
P.O. Box 2097 Barceloneta, P.R. 00617,  
TEL. (787) 623-1800, FAX. (787) 623-0087

revisions:	
no	date
A	10.09.23
description	
UPDATED TO 2023 FBC	
date:	02-13-18
scale:	1/2" = 1"
dr. by:	MLS
chk. by:	
drawing no.	
M18-29	
sheet 1 of 8	

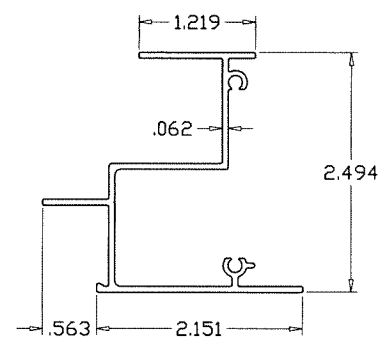
MULLION\M18-29AM



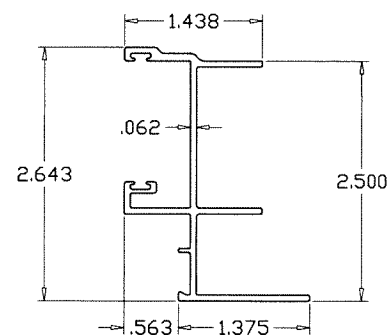
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PICTURE WINDOW  
SINGLE HUNG HEAD  
22018



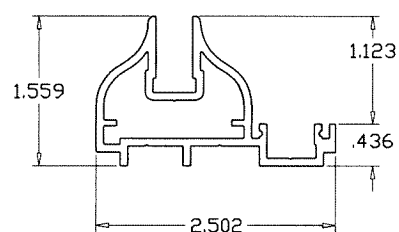
SERIES 250  
FRAME HEAD/SILL ADAPTER  
22715



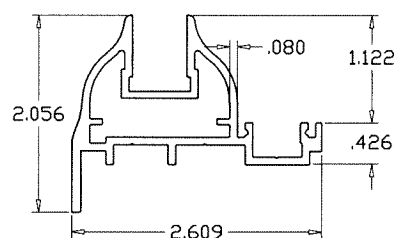
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SINGLE HUNG JAMB  
HORIZONTAL ROLLER HEAD  
22022



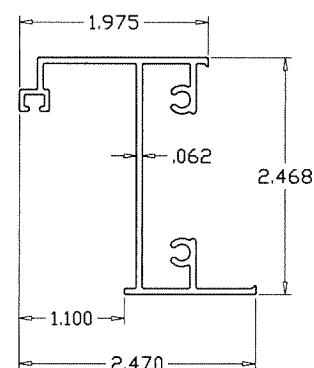
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HORIZONTAL ROLLER  
22813



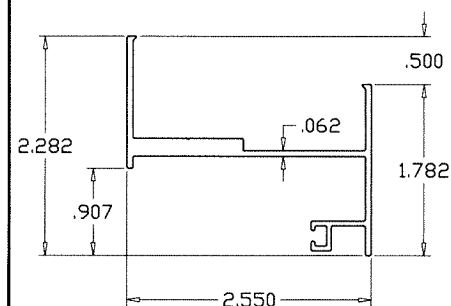
SERIES CONTINENTAL  
PICTURE WINDOW FRAME  
 76832



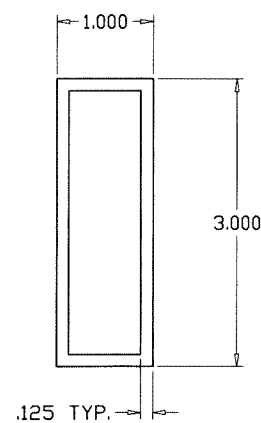
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PICTURE WINDOW FLANGE FRAME  
76857



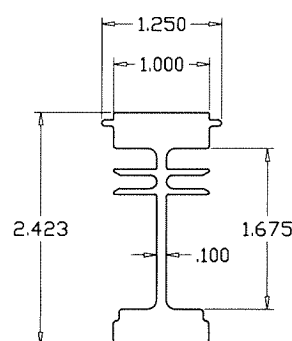
SERIES CONTINENTAL  
CASEMENT WDW. FLANGE FRAME  
PROJECTED WDW. FLANGE FRAME  
76869



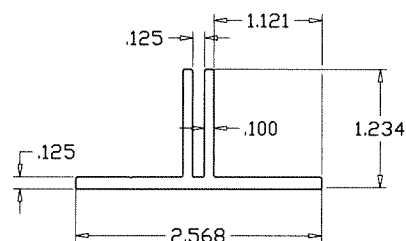
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CASEMENT WDW. FLANGE FRAME  
PROJECTED WDW. FLANGE FRAME  
76870



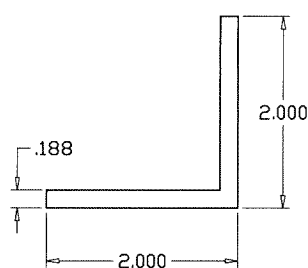
1 X 3 STD. TUBE  
57555



SERIES 250  
ZERO MULLION  
22029



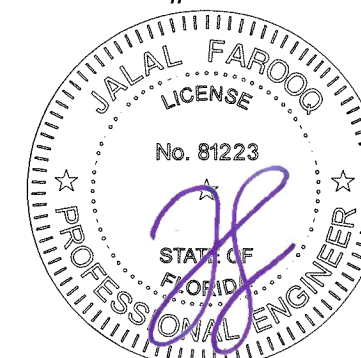
SERIES 250  
MULLION ZERO ANCHOR CLIP  
22028



TUBE ANCHOR CLIP


ALL FRAMES AND CLIP TO BE ALLOY 6063-T5  
ALL MULLIONS TO BE ALLOY 6063-T6

Sealed: 10/16/2023



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CLIPPED ALUM MULLION

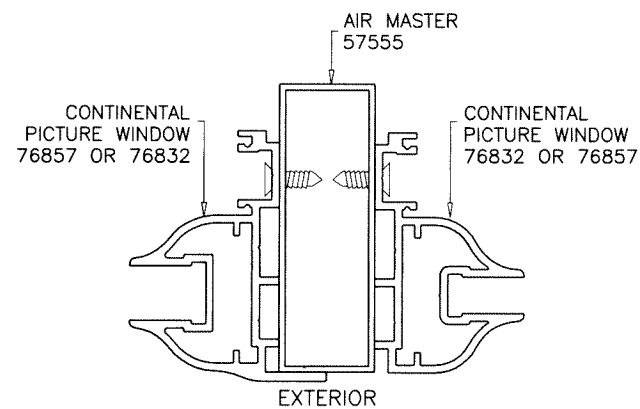
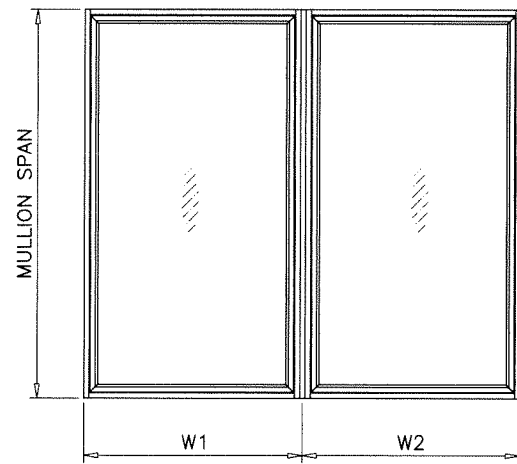
 **AIR MASTER**  
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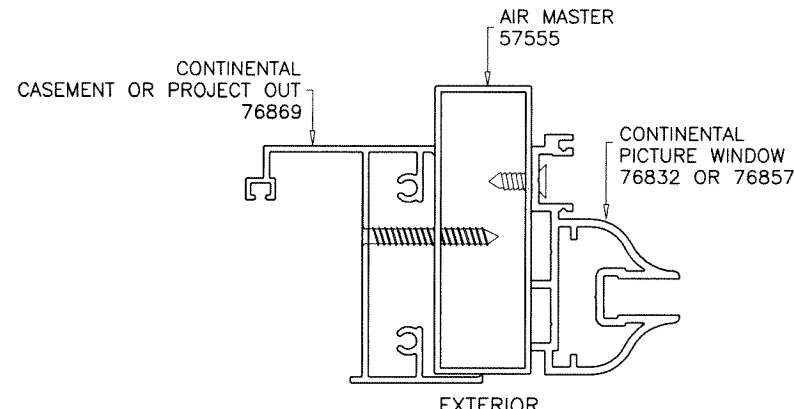
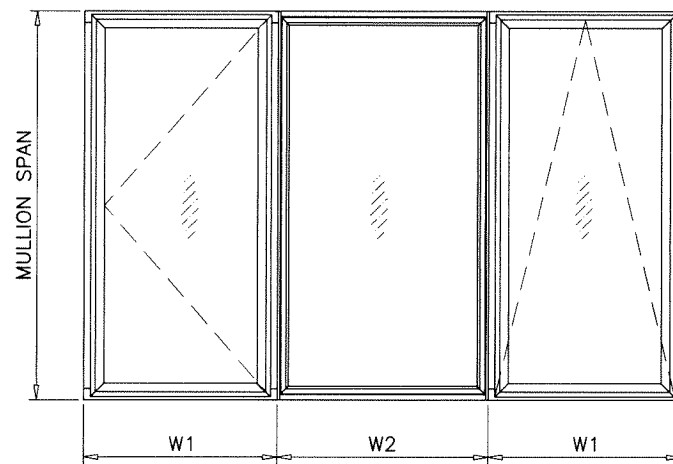
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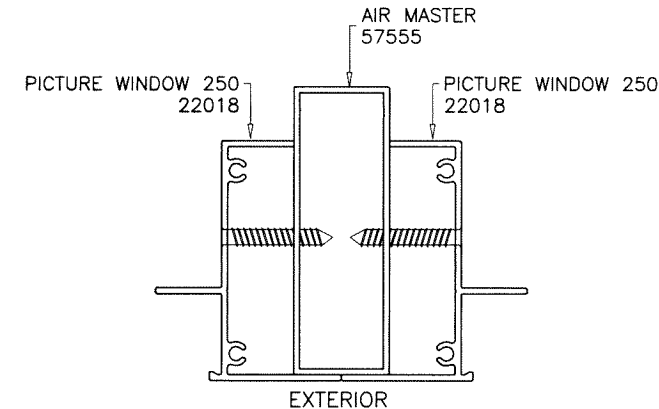
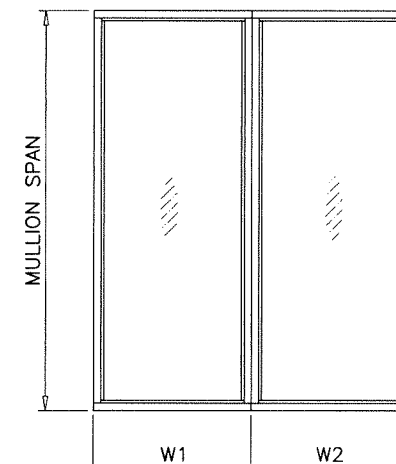
drawing no.  
M18-29  
sheet 2 of 8



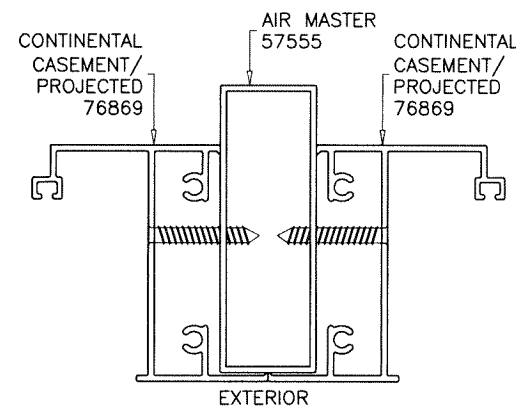
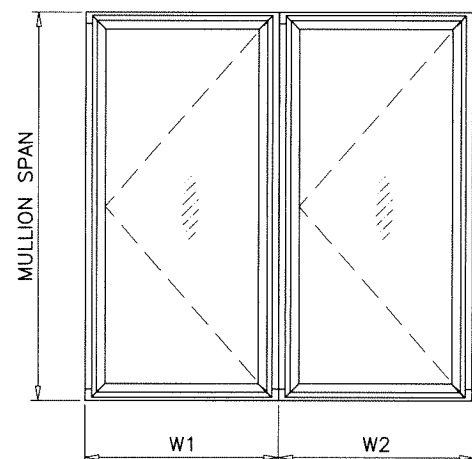
CONT. PICTURE WINDOW TO CONT. PICTURE WINDOW  
COMBINATION 1



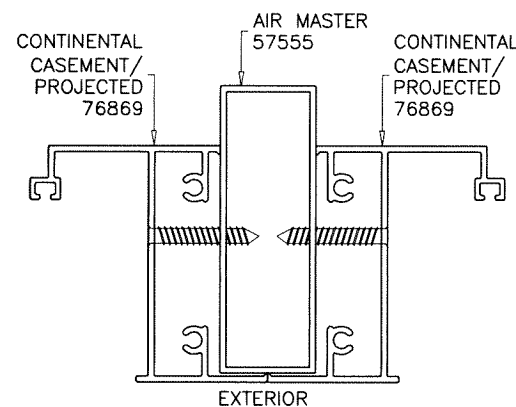
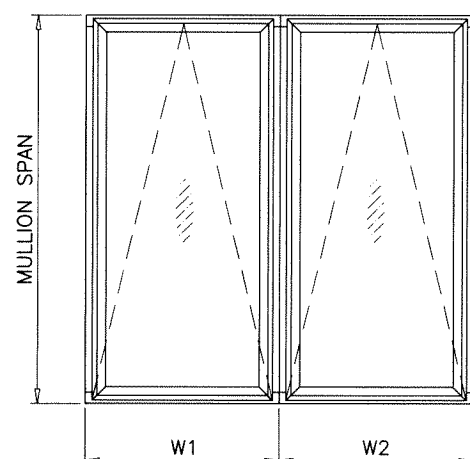
CASEMENT/ PROJECT OUT TO CONT. PICTURE WINDOW  
COMBINATION 2



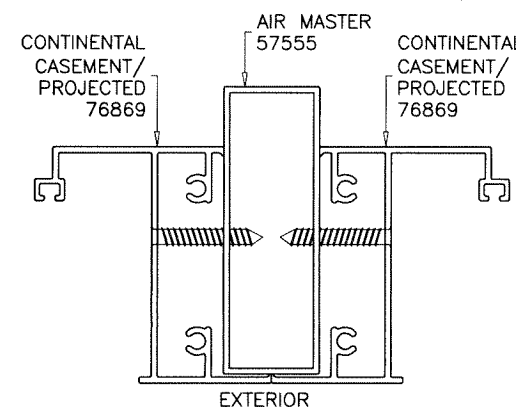
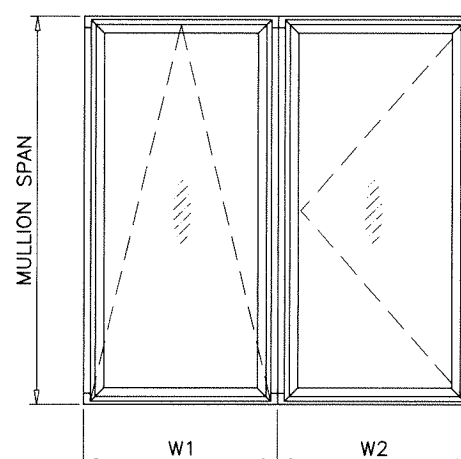
250 PICTURE WINDOW TO 250 PICTURE WINDOW  
COMBINATION 3



CASEMENT TO CASEMENT  
COMBINATION 4



PROJECTED TO PROJECTED  
COMBINATION 5



CASEMENT TO PROJECTED  
COMBINATION 6

SEE SHEET 6 OF 8 FOR DESIGN LOAD CAPACITY

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

**TUBE MULLION  
SERIES CONTINENTAL /250 FRAMES**

**FL #26358**

Sealed: 10/16/2023



**afc**

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CLIPPED ALUM MULLION

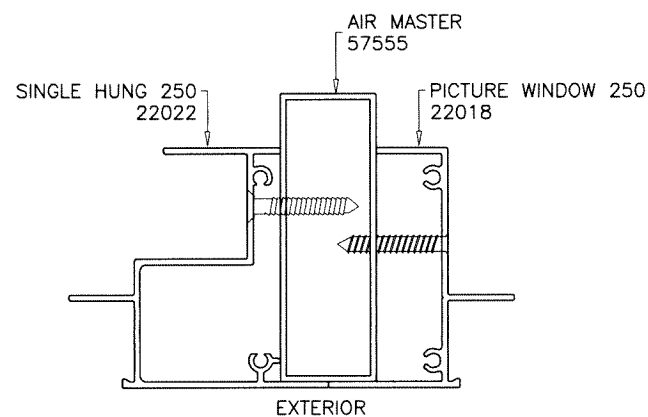
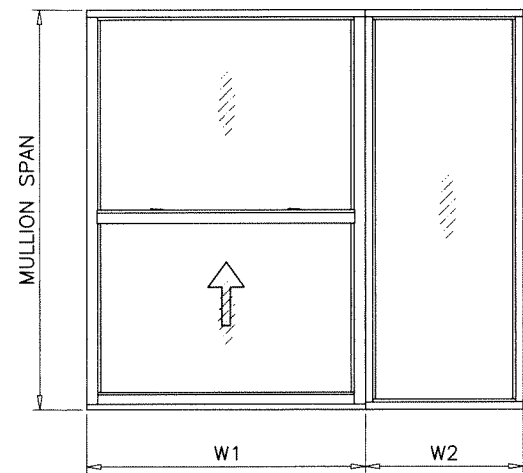
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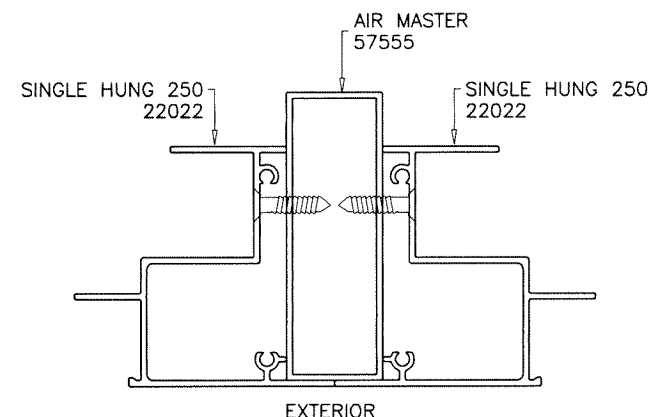
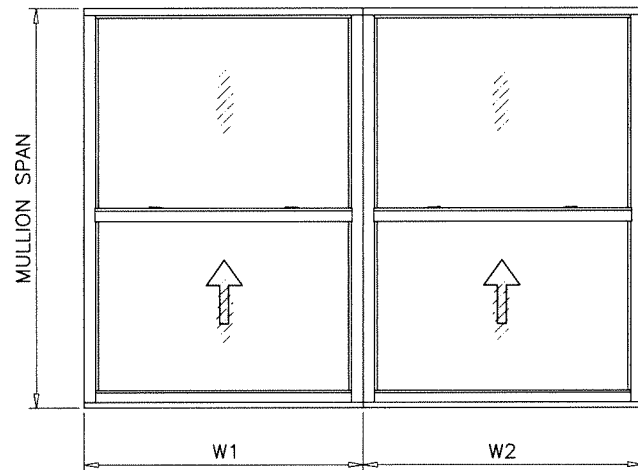
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**M18-29**  
sheet 3 of 8

MULLION M18-29AM

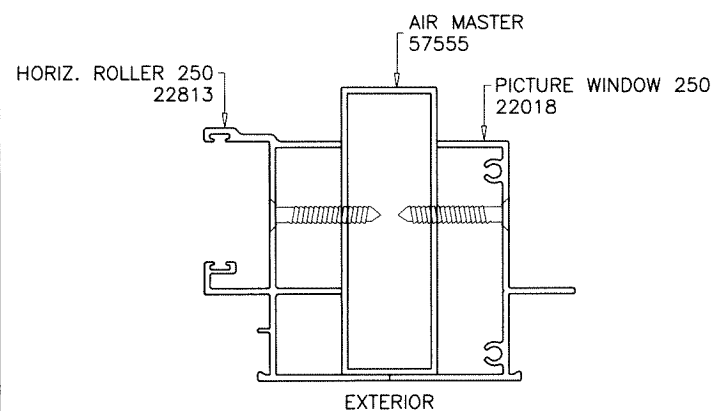
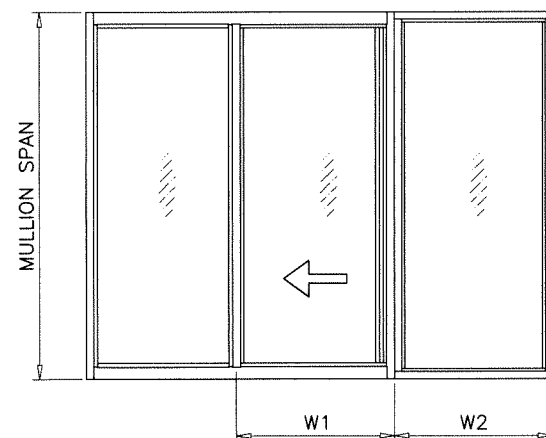




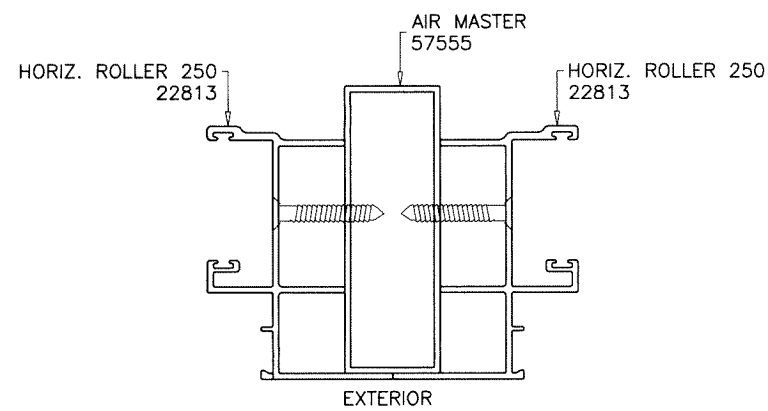
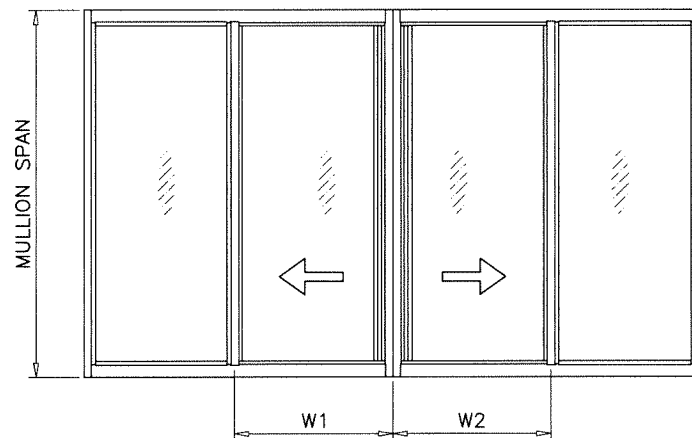
**SINGLE HUNG TO 250 PICTURE WINDOW  
COMBINATION 7**



**SINGLE HUNG TO SINGLE HUNG  
COMBINATION 8**



**HORIZONTAL ROLLER TO FIXED  
COMBINATION 9**



**HORIZONTAL ROLLER TO HORIZONTAL ROLLER  
COMBINATION 10**

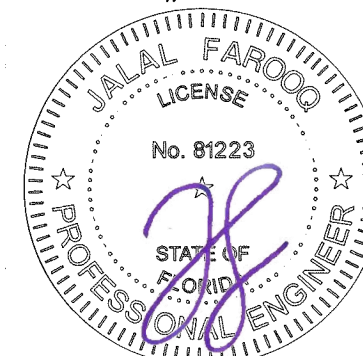
SEE SHEET 6 OF 8 FOR DESIGN LOAD CAPACITY

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

**TUBE MULLION  
SERIES CONTINENTAL /250 FRAMES**

**FL #26358**

Sealed: 10/16/2023



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CLIPPED ALUM MULLION

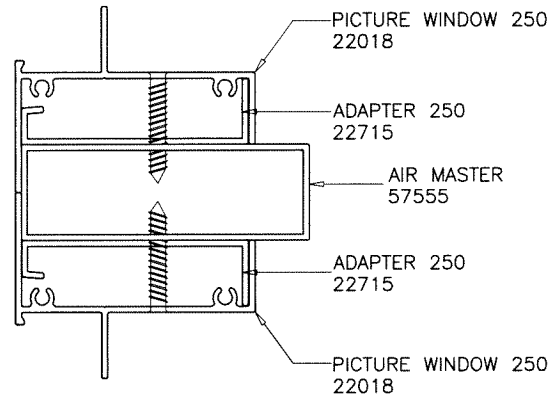
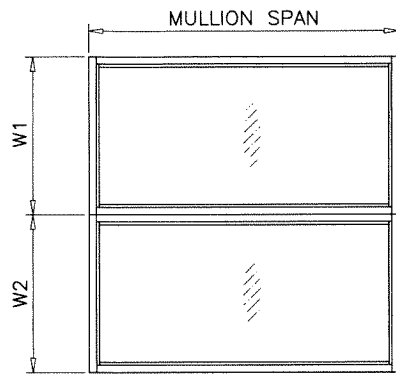
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windows and doors  
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revisions:	no	date	by	description

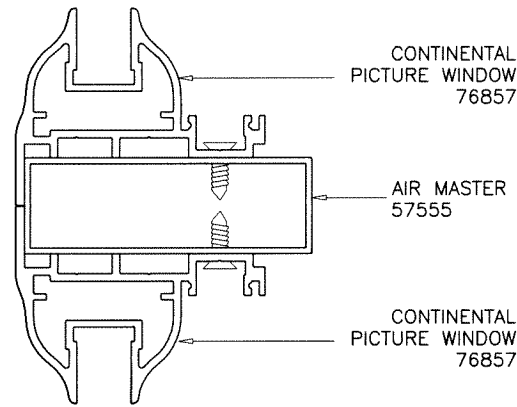
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drawing no.  
**M18-29**  
sheet 4 of 8

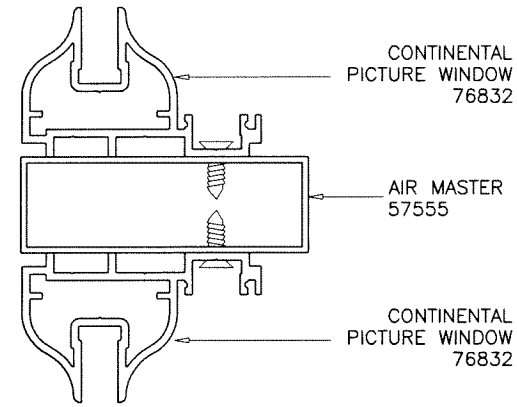
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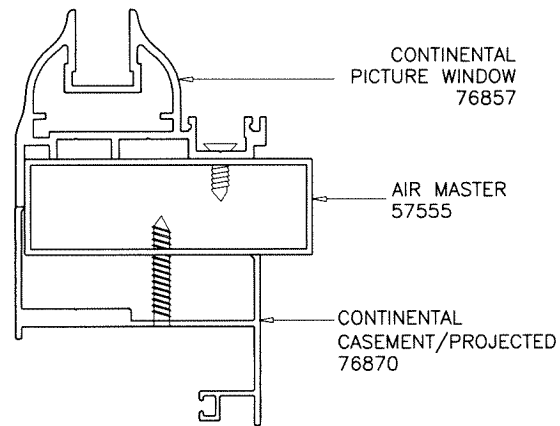
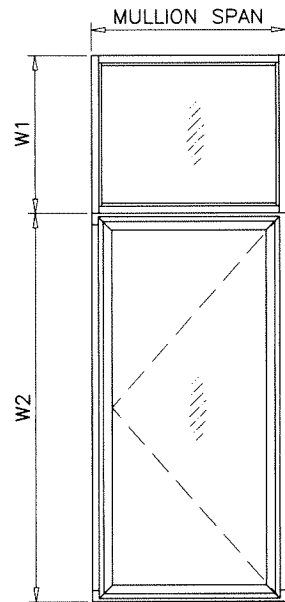
250 PICTURE WINDOW TO 250 PICTURE WINDOW



CONT. PICTURE WINDOW TO CONT. PICTURE WINDOW

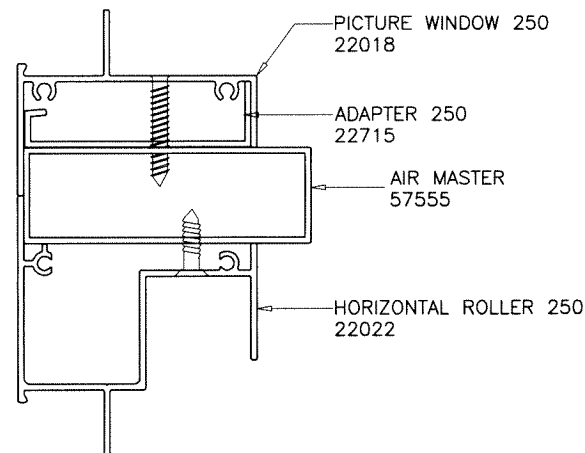
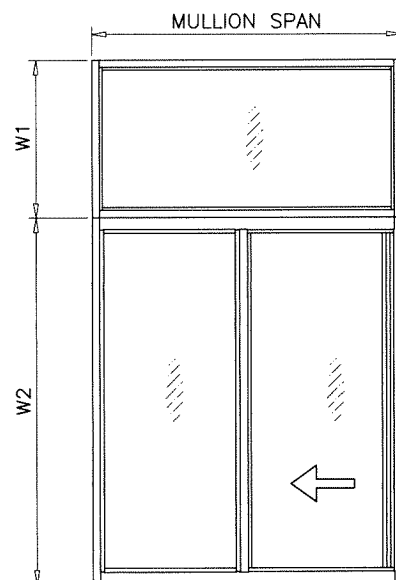


COMBINATION 11



CASEMENT/ PROJECT OUT TO CONT. PICTURE WINDOW

COMBINATION 12



HORIZONTAL ROLLER TO 250 PICTURE WINDOW

COMBINATION 13

SEE SHEET 6 OF 8 FOR DESIGN LOAD CAPACITY

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

TUBE MULLION  
SERIES CONTINENTAL/250 FRAMES

FL #26358

Sealed: 10/16/2023



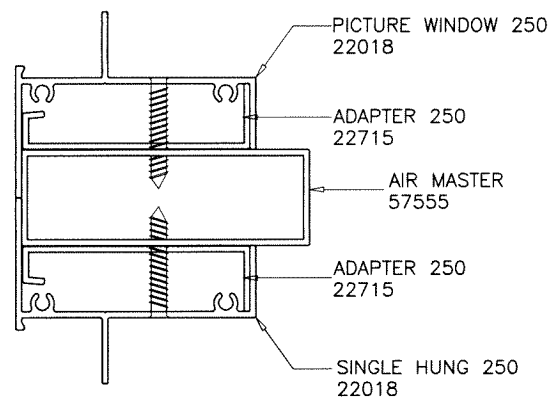
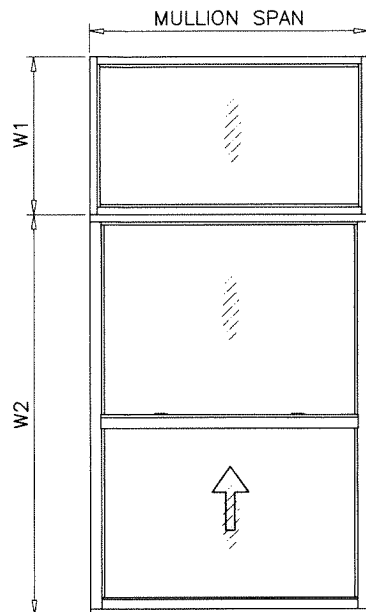
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**AL-FAROOQ CORPORATION**  
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MULLION M18-29AM

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revisions:	no	date	by	description

date: 02-13-18	scale: 1/2" = 1"	dr. by: MLS	chk. by:
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drawing no.  
**M18-29**  
sheet 5 of 8



SINGLE HUNG TO 250 PICTURE WINDOW

COMBINATION 14

DESIGN LOAD CAPACITY - PSF								
TUBE MULLION WITH ANY COMBINATION OF CONTINENTAL FIXED, CASEMENT PROJECTED WDW., 250 SINGLE HUNG, HORIZONTAL ROLLER AND PICTURE WINDOW								
WINDOW DIMS.								
WIDTH (W)	MULL SPAN	COMBINATION 1, 3, 11, 14	COMBINATION 10	COMBINATION 8	COMBINATION 4, 5, 6	COMBINATION 7, 13	COMBINATION 9	COMBINATION 2, 12
36"	58"	70.0	70.0	70.0	70.0	70.0	70.0	70.0
40"		70.0	70.0	70.0	70.0	70.0	70.0	70.0
44"		70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0
52"		70.0	70.0	70.0	70.0	70.0	70.0	70.0
56"		70.0	70.0	70.0	70.0	70.0	70.0	70.0
36"	60"	70.0	70.0	70.0	70.0	70.0	70.0	70.0
40"		70.0	70.0	70.0	70.0	70.0	70.0	70.0
44"		70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0
52"		70.0	70.0	70.0	70.0	69.8	70.0	70.0
56"		70.0	70.0	70.0	70.0	65.5	70.0	70.0
36"	66"	70.0	70.0	70.0	70.0	70.0	70.0	70.0
40"		68.2	70.0	70.0	70.0	70.0	70.0	70.0
44"		63.9	70.0	70.0	70.0	65.6	67.7	70.0
48"		60.6	67.8	67.0	70.0	60.8	64.2	69.2
52"		58.1	65.1	62.4	70.0	56.7	61.6	66.4
56"		56.4	63.1	58.5	69.2	53.1	59.7	64.4
36"	72"	60.6	67.9	70.0	70.0	64.3	64.3	69.3
40"		55.8	62.4	64.9	68.5	58.9	59.1	63.7
44"		51.9	58.2	59.8	63.8	54.3	55.1	59.4
48"		49.0	54.8	55.5	60.1	50.3	51.9	55.9
52"		46.6	52.2	51.7	57.3	46.9	49.4	53.3
56"		44.8	50.2	48.4	55.0	43.9	47.5	51.2

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

TUBE MULLION  
SERIES CONTINENTAL/250 FRAMES

FL #26358

Sealed: 10/16/2023



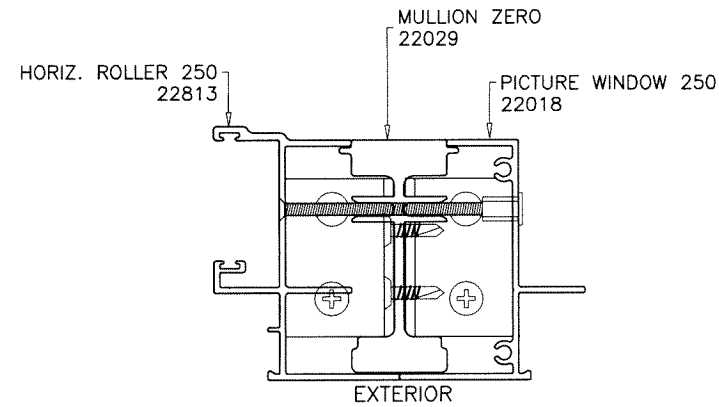
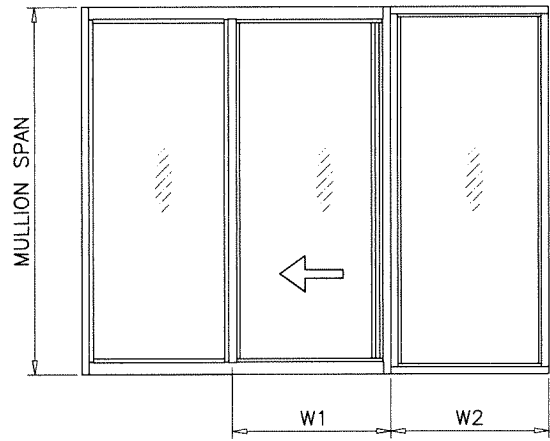
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978

CLIPPED ALUM MULLION  
**AIR MASTER**  
windows and doors  
P.O. Box 2097 Barceloneta, P.R. 00617,  
TEL. (787) 623-1800, FAX. (787) 623-0087

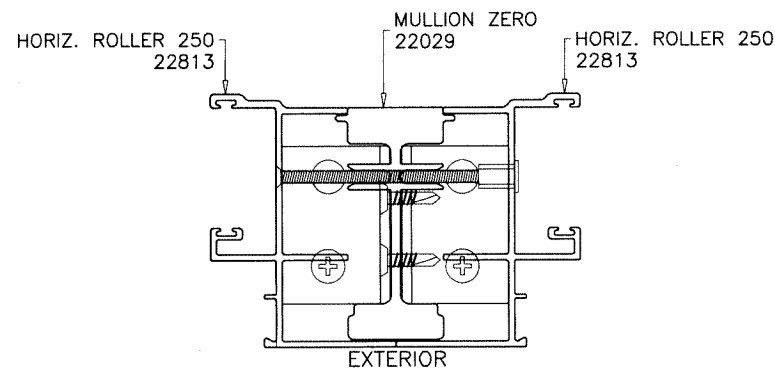
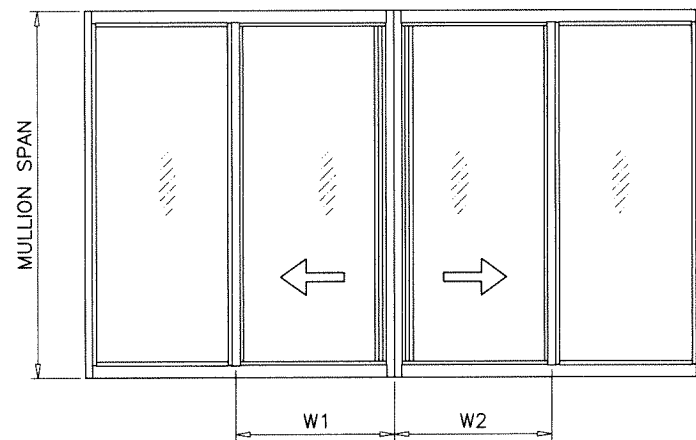
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date: 02-13-18  
scale: 1/2" = 1"  
dr. by: MLS  
chk. by:

drawing no.  
**M18-29**  
sheet 6 of 8



**HORIZONTAL ROLLER TO 250 PICTURE WINDOW  
COMBINATION 15**



**HORIZONTAL ROLLER TO HORIZONTAL ROLLER  
COMBINATION 16**

DESIGN LOAD CAPACITY - PSF ZERO MULLION WITH ANY COMBINATION OF 250 HORIZONTAL ROLLER AND PICTURE WINDOW			
WINDOW DIMS.			
WIDTH (W)	MULL SPAN	COMBINATION 15	COMBINATION 16
36"	60"	73.7	73.7
40"		73.7	73.7
44"		73.7	73.7
36"	63"	73.7	73.7
40"		73.7	73.7
44"		70.4	73.7

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

**ZERO MULLION  
SERIES 250 FRAMES**

**FL #26358**

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**a f c**

(C.A.N. 3538)

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CLIPPED ALUM MULLION

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revisions:		no	date	by	description

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date: 02-13-18	scale: 1/2" = 1"	dr. by: MLS	chk. by:
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drawing no.	no.
M18-29	
sheet 7 of 8	



