

THERMAL CLIPPED MULLION
WINDOW/DOOR FRAME MEMBERS INCLUDED IN PROPERTIES

THERMAL STEEL MULLION TO BE USED WITH
SERIES 7610 SINGLE HUNG WINDOW
SERIES 7615 FIXED WINDOW
SERIES 7620 HORIZONTAL ROLLING WINDOW
SERIES 7630 FIXED WINDOW
SERIES 7660 AWNING WINDOW
SERIES 7670 CASEMENT WINDOW
SERIES 7680 HOPPER WINDOW
SERIES 7900 FRENCH DOOR
SERIES 7980 PIVOT DOOR
OR ANY COMBINATIONS OF ABOVE IN SIDE BY SIDE
JOINING OR TOP AND BOTTOM JOINING.
FOR WINDOWS/DOORS IMPACT AND LOAD RATINGS
SEE CORRESPONDING APPROVALS.
LOWER DESIGN PRESSURE FROM WINDOW/DOOR APPROVALS
OR MULLION CHARTS WILL APPLY TO ENTIRE SYSTEM.
MULLION MAY BE USED FOR JOINING TWO OR MORE
WINDOWS OR DOORS TOGETHER.

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)’.
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.

THESE MULLIONS ARE RATED FOR LARGE & SMALL MISSILE IMPACT

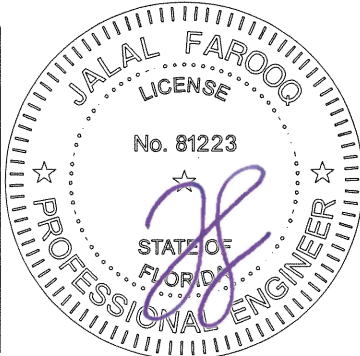
INDEX OF DRAWING	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES, INSTRUCTIONS AND INDEX OF DRAWINGS
2 THRU 4	VERTICAL MULLION COMBINATIONS
5 & 6	HORIZONTAL MULLION COMBINATIONS
7	VERTICAL MULLION AND ANCHOR CAPACITY CHARTS
8	HORIZONTAL MULLION AND ANCHOR CAPACITY CHARTS
9	MULLION ANCHORING DETAIL
10	WINDOW FRAME EXTRUSIONS
11	DOOR FRAME EXTRUSIONS, MULLION AND CLIP DETAILS

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 2 THRU 8 SELECT MULLION TYPE
AND ANCHOR QUANTITIES WITH DESIGN RATING MORE THAN
THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** CAPACITY OF SELECTED WESTERN 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: 10/6/2020 FL #29878



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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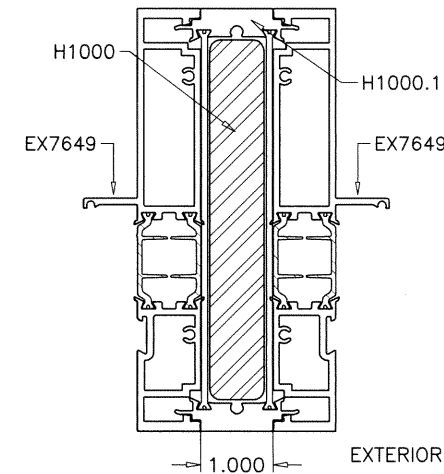
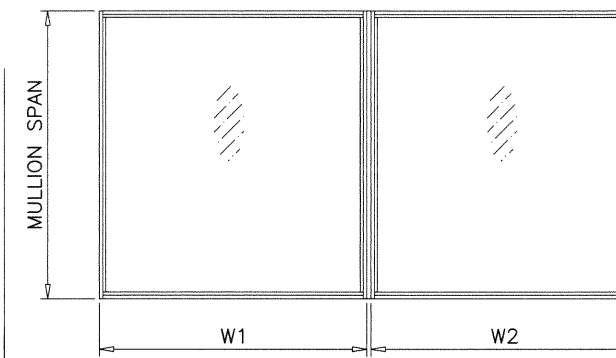
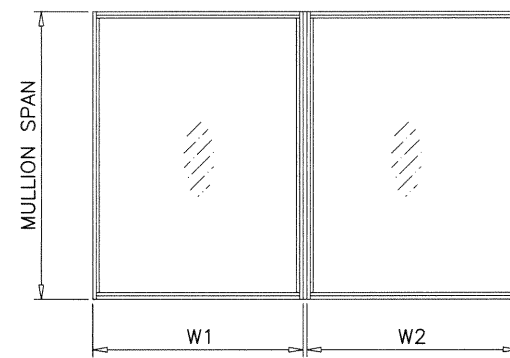
MULLION\19-36F-WWS

THERMAL CLIPPED MULLION SYSTEM



Western Window Systems
2200 E. Riverview Drive
Phoenix, AZ. 85034
Tel: (877) 268-1300 Fax: (876)

revisions:	no	date	by	description
	A	09.24.20		UPDATED TO 2020 FBC
date:	05-01-19			
scale:	-			
dr.	TARIQ			
chk.	by:			
drawing no.	19-36F			
sheet	1 of 11			



GROUP 'V2'

	Ix IN^4	Sx IN^3
ALUMINUM	10.5688	3.5928
STEEL	7.6950	3.0780
TOTAL Ix ALUM + Ix STL X 2.9	32.6634	

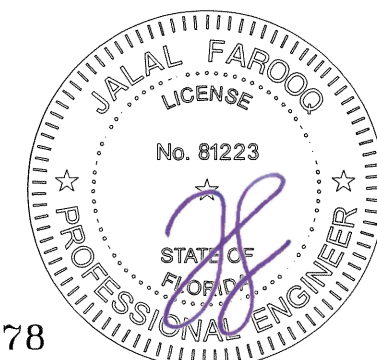
SERIES 7620
H.R. TO H.R.

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


	$I_x \text{ IN}^4$	$S_x \text{ IN}^3$
ALUMINUM	10.626	3.5696
STEEL	7.6950	3.0780
TOTAL $I_x \text{ ALUM} + I_x \text{ STL} \times 2.9$	32.7206	

SERIES 7680
HOPPER TO HOPPER

FL #29878



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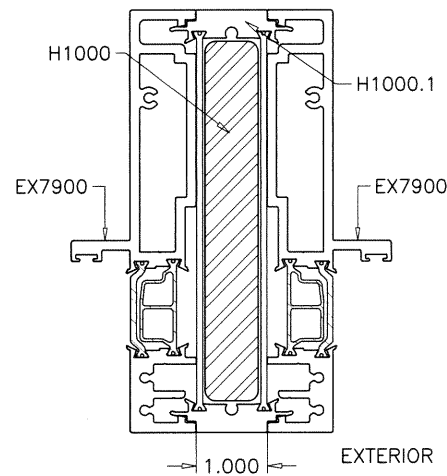
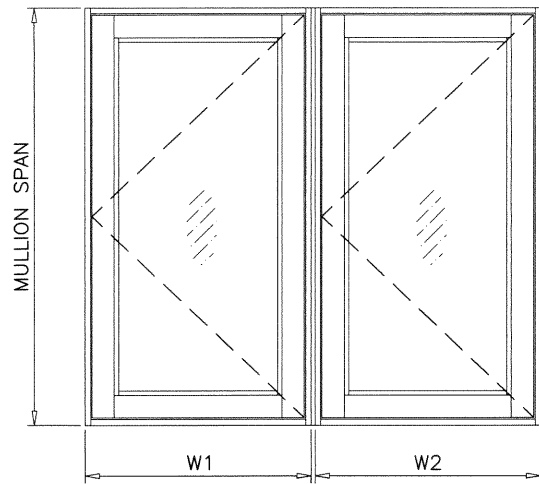
MULLION\19-36F-WWS

date: 05-01-19	revisions:	
scale: 3/8" = 1"	no	by description
dr. by: TARIQ		
chk. by:		

drawing no.

19-36F

sheet 2 of 11

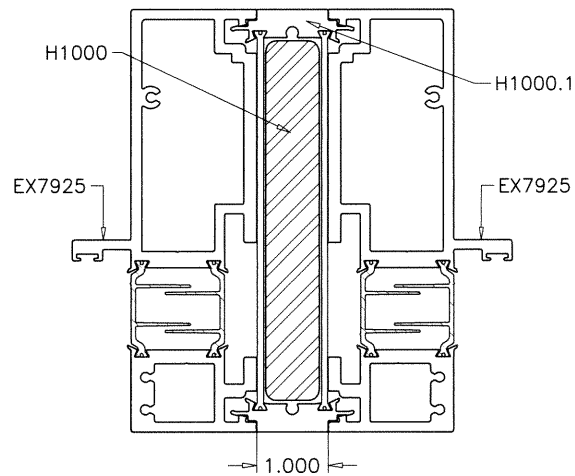
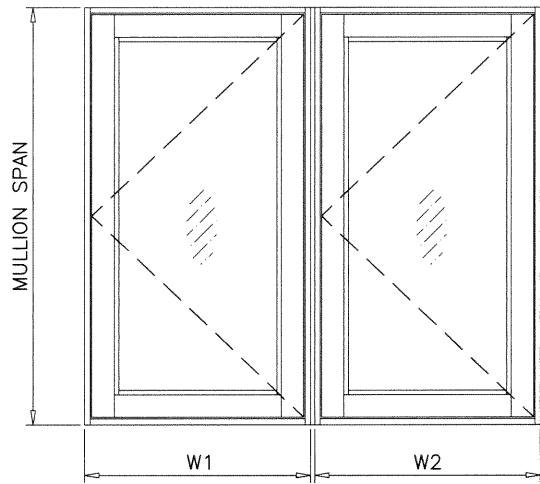


GROUP 'V4'

	Ix IN ⁴	Sx IN ³
ALUMINUM	13.1202	4.3492
STEEL	7.6950	3.0780
TOTAL		
Ix ALUM + Ix STL X 2.9		
	35.2148	

SERIES 7900
F. DOOR TO F. DOOR

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

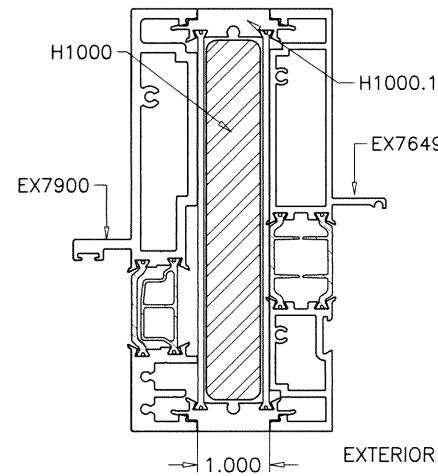
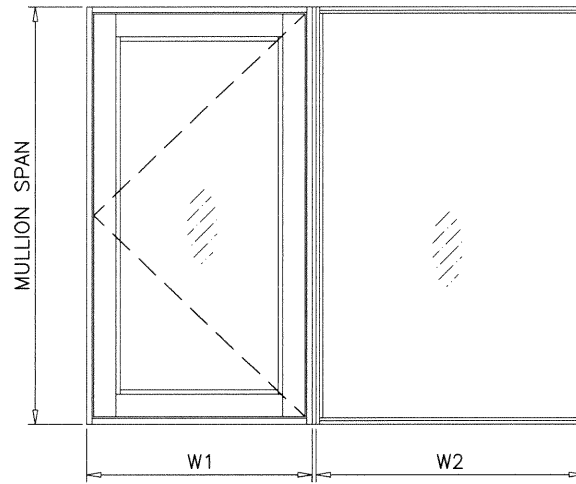


GROUP 'V5'

	Ix IN ⁴	Sx IN ³
ALUMINUM	22.212	7.3319
STEEL	7.6950	3.0780
TOTAL		
Ix ALUM + Ix STL X 2.9		
	44.3066	

SERIES 7900
F. DOOR TO F. DOOR

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

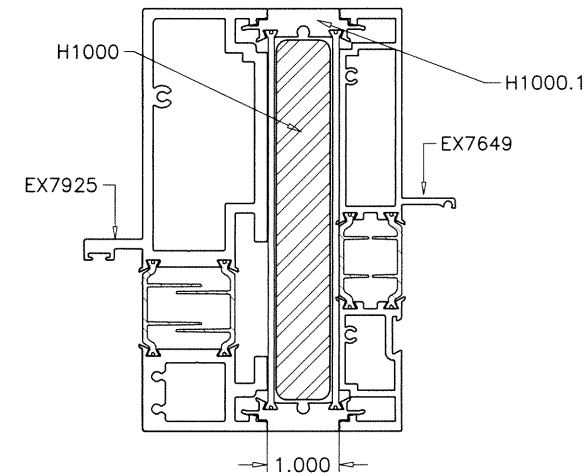
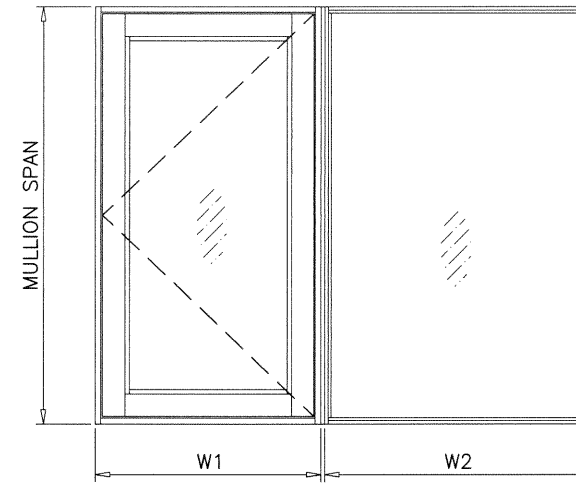


GROUP 'V6'

	Ix IN ⁴	Sx IN ³
ALUMINUM	11.8445	3.9263
STEEL	7.6950	3.0780
TOTAL		
Ix ALUM + Ix STL X 2.9		
	33.9391	

SERIES 7900
F. DOOR TO FIXED

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



GROUP 'V7'

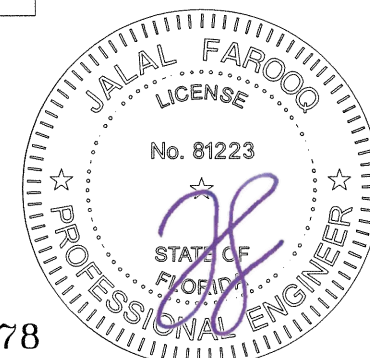
	Ix IN ⁴	Sx IN ³
ALUMINUM	16.3904	5.4103
STEEL	7.6950	3.0780
TOTAL		
Ix ALUM + Ix STL X 2.9		
	38.4850	

SERIES 7900
F. DOOR TO FIXED

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

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FL #29878



afc

AL-FAROOQ CORPORATION
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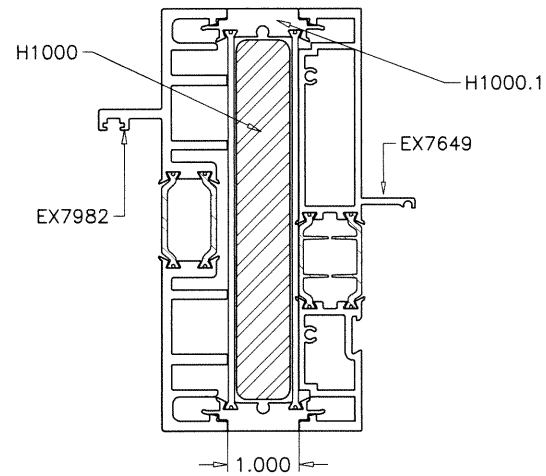
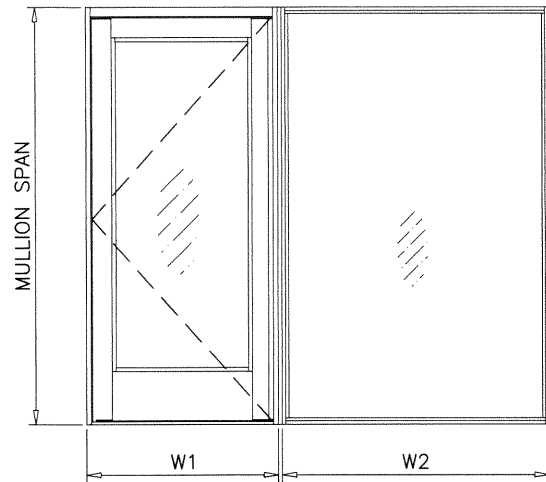
chk. by:

drawing no.

19-36F

sheet 3 of 11

MULLION 19-36F-WWS



GROUP 'V8'

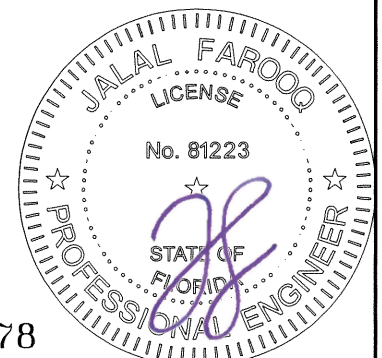
	Ix IN ⁴	Sx IN ³
ALUMINUM	11.7464	3.8475
STEEL	7.6950	3.0780
TOTAL	33.8410	
Ix ALUM + Ix STL X 2.9		

SERIES 7980
PIVOT DOOR TO FIXED

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

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MULLION\19-36F-WWS

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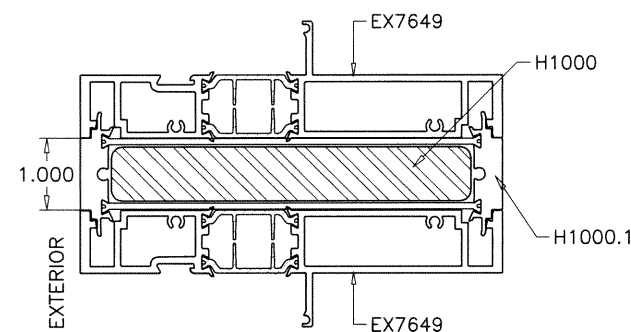
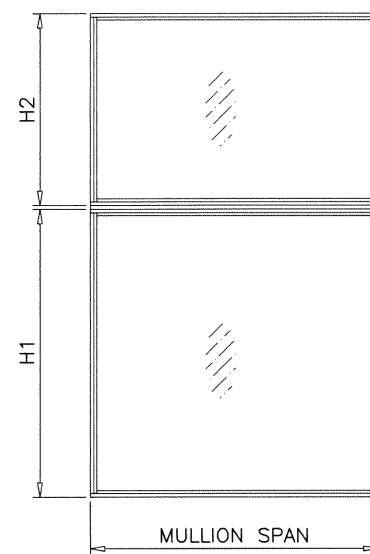
dr. by: TARIQ

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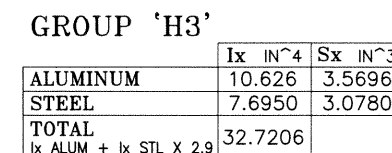
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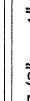
19-36F

sheet 4 of 11



GROUP 'H2'		
	Ix IN^4	Sx IN^3
ALUMINUM	10.5688	6.1292
STEEL	7.6950	3.0780
TOTAL $I_x \text{ ALUM} + I_x \text{ STL} \times 2.9$	32.6634	



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THERMAL CLIPPED MULLION SYSTEM			
Western Window Systems 2200 E. Riverview Drive Phoenix, AZ. 85034 Tel: (877) 268-1300 Fax: (876)		MILLION\ 19-36F-WWS	

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19-36F	
sheet 5 of 1	

VERTICAL MULLION DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GROUP 'V1'	GROUP 'V2' GROUP 'V3' GROUP 'V8'	GROUP 'V4'	GROUP 'V5'	GROUP 'V6'	GROUP 'V7'
WIDTH (W)	MULL SPAN	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
48"	120"	80.0	80.0	80.0	80.0	80.0	80.0
54"		80.0	80.0	80.0	80.0	80.0	80.0
60"		80.0	80.0	80.0	80.0	80.0	80.0
66"		80.0	80.0	80.0	80.0	80.0	80.0
72"		80.0	80.0	80.0	80.0	80.0	80.0
78"		80.0	80.0	80.0	80.0	80.0	80.0
84"		80.0	80.0	80.0	80.0	80.0	80.0
90"		80.0	80.0	80.0	80.0	80.0	80.0
96"		80.0	80.0	80.0	80.0	80.0	80.0
48"	132"	80.0	80.0	80.0	80.0	80.0	80.0
54"		80.0	80.0	80.0	80.0	80.0	80.0
60"		80.0	80.0	80.0	80.0	80.0	80.0
66"		80.0	80.0	80.0	80.0	80.0	80.0
72"		80.0	80.0	80.0	80.0	80.0	80.0
78"		80.0	80.0	80.0	80.0	80.0	80.0
84"		79.2	79.2	79.2	79.2	79.2	79.2
90"		76.5	76.5	76.5	76.5	76.5	76.5
96"		74.3	74.3	74.3	74.3	74.3	74.3
48"	144'	80.0	80.0	80.0	80.0	80.0	80.0
54"		80.0	80.0	80.0	80.0	80.0	80.0
60"		80.0	80.0	80.0	80.0	80.0	80.0
66"		80.0	80.0	80.0	80.0	80.0	80.0
72"		77.0	77.0	77.0	77.0	77.0	77.0
78"		73.1	73.1	73.1	73.1	73.1	73.1
84"		69.9	69.9	69.9	69.9	69.9	69.9
90"		67.2	65.7	67.2	67.2	67.2	67.2
96"		65.0	61.6	65.0	65.0	64.0	65.0
48"	156"	65.0	65.0	65.0	65.0	65.0	65.0
54"		65.0	64.8	65.0	65.0	65.0	65.0
60"		65.0	58.3	62.8	65.0	60.6	65.0
66"		62.0	53.0	57.1	65.0	55.1	62.4
67"		61.0	52.2	56.3	65.0	54.2	61.5

ANCHORS DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		ANCHORS TYPE 'A'		ANCHORS 'B' & 'E'
		6	9	6
WIDTH (W) HEIGHT (H)	MULL SPAN	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
48"	120"	80.0	80.0	80.0
54"		80.0	80.0	80.0
60"		80.0	80.0	80.0
66"		80.0	80.0	80.0
72"		80.0	80.0	80.0
78"		80.0	80.0	80.0
84"		79.6	80.0	80.0
90"		77.3	80.0	80.0
96"		75.5	80.0	80.0
48"	132"	80.0	80.0	80.0
54"		80.0	80.0	80.0
60"		80.0	80.0	80.0
66"		79.9	80.0	80.0
72"		75.5	80.0	80.0
78"		71.9	80.0	80.0
84"		69.0	79.2	79.2
90"		66.6	76.5	76.5
96"		64.7	74.3	74.3
48"	144'	80.0	80.0	80.0
54"		80.0	80.0	80.0
60"		76.3	80.0	80.0
66"		71.2	80.0	80.0
72"		67.1	77.0	77.0
78"		63.7	73.1	73.1
84"		60.9	69.9	69.9
90"		58.6	67.2	67.2
96"		56.6	65.0	65.0
48"	156"	65.0	65.0	65.0
54"		65.0	65.0	65.0
60"		65.0	65.0	65.0
66"		64.3	65.0	65.0
67"		63.6	65.0	65.0

SEE VERTICAL MULLION CHART FOR MULLION DESIGN LOAD CAPACITY.
SEE ANCHOR CHART FOR MULLION ANCHOR LOAD CAPACITY.
LOWER DESIGN PRESSURE FROM ABOVE WILL APPLY.
FOR ANCHOR DESCRIPTION SEE SHEET 9.
INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.



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sheet 7 of 11

MULLION 19-36F-WWS

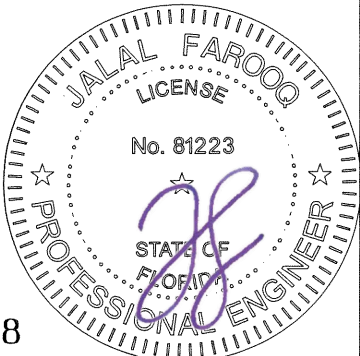
HORIZONTAL MULLION DESIGN LOAD CAPACITY – PSF					
WINDOW DIMS.		GROUP 'H1'	GROUP 'H2'	GROUP 'H4'	GROUP 'H5'
HEIGHT (H)	MULL SPAN	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
36"	84"	80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0
54"		80.0	80.0	80.0	80.0
60"		80.0	80.0	80.0	80.0
66"		80.0	80.0	80.0	80.0
72"		80.0	80.0	80.0	80.0
78"		80.0	80.0	80.0	80.0
84"		80.0	80.0	80.0	80.0
90"		80.0	80.0	80.0	80.0
96"		80.0	80.0	80.0	80.0
36"	96"	80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0
54"		80.0	80.0	80.0	80.0
60"		80.0	80.0	80.0	80.0
66"		80.0	77.1	80.0	80.0
72"		80.0	36.3	79.0	80.0
78"		80.0	–	48.5	80.0
84"		80.0	–	–	80.0
90"		80.0	–	–	80.0
96"		80.0	–	–	80.0
36"	102"	80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0
54"		80.0	80.0	80.0	80.0
60"		80.0	30.0	80.0	80.0
66"		80.0	–	37.1	80.0
72"		80.0	–	–	80.0
78"		80.0	–	–	80.0
84"		71.9	–	–	80.0
90"		55.7	–	–	80.0
96"		37.5	–	–	80.0
36"	108"	80.0	80.0	–	–
42"		80.0	80.0	–	–
48"		80.0	61.2	–	–
54"		80.0	–	–	–
60"		80.0	–	–	–
66"		80.0	–	–	–
72"		80.0	–	–	–
78"		80.0	–	–	–
84"		71.9	–	–	–
90"		55.7	–	–	–
96"		37.5	–	–	–
36"	120"	80.0	31.2	–	–
42"		80.0	–	–	–
48"		80.0	–	–	–
54"		80.0	–	–	–
60"		80.0	–	–	–
66"		56.2	–	–	–
36"	132"	80.0	–	–	–
42"		80.0	–	–	–
48"		68.8	–	–	–

ANCHORS DESIGN LOAD CAPACITY – PSF					
WINDOW DIMS.		ANCHORS TYPE 'A'		ANCHORS 'B' & 'E'	ANCHORS 'C' & 'D'
HEIGHT (H)	MULL SPAN	6	9	6	6
EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
36"	84"	80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0
54"		80.0	80.0	80.0	80.0
60"		80.0	80.0	80.0	80.0
66"		80.0	80.0	80.0	80.0
72"		80.0	80.0	80.0	80.0
78"		80.0	80.0	80.0	80.0
84"		80.0	80.0	80.0	80.0
90"		80.0	80.0	80.0	78.8
96"		80.0	80.0	80.0	69.1
36"	96"	80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0
54"		80.0	80.0	80.0	80.0
60"		80.0	80.0	80.0	80.0
66"		80.0	80.0	80.0	77.1
72"		80.0	80.0	80.0	74.0
78"		80.0	80.0	80.0	71.8
84"		80.0	80.0	80.0	70.2
90"		80.0	80.0	80.0	69.2
96"		80.0	80.0	80.0	68.7
36"	102"	80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	80.0
54"		80.0	80.0	80.0	79.2
60"		80.0	80.0	80.0	74.1
66"		80.0	80.0	80.0	70.1
72"		80.0	80.0	80.0	67.0
78"		80.0	80.0	80.0	64.6
84"		80.0	80.0	80.0	62.8
90"		80.0	80.0	80.0	61.5
96"		80.0	80.0	80.0	60.6
36"	108"	80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	80.0
48"		80.0	80.0	80.0	79.8
54"		80.0	80.0	80.0	73.4
60"		80.0	80.0	80.0	68.4
66"		80.0	80.0	80.0	64.5
72"		80.0	80.0	80.0	61.4
78"		80.0	80.0	80.0	59.0
84"		80.0	80.0	80.0	57.1
90"		80.0	80.0	80.0	55.6
96"		80.0	80.0	80.0	54.5
36"	120"	80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	77.3
48"		80.0	80.0	80.0	69.6
54"		80.0	80.0	80.0	63.7
60"		80.0	80.0	80.0	59.1
66"		80.0	80.0	80.0	55.4
36"	132"	80.0	80.0	80.0	78.4
42"		80.0	80.0	80.0	68.9
48"		80.0	80.0	80.0	61.7

SEE HORIZONTAL MULLION CHART FOR MULLION DESIGN LOAD CAPACITY.
SEE ANCHOR CHART FOR MULLION ANCHOR LOAD CAPACITY.
LOWER DESIGN PRESSURE FROM ABOVE WILL APPLY.
FOR ANCHOR DESCRIPTION SEE SHEET 9.
INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.

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FL #29878



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

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THERMAL CLIPPED MULLION SYSTEM

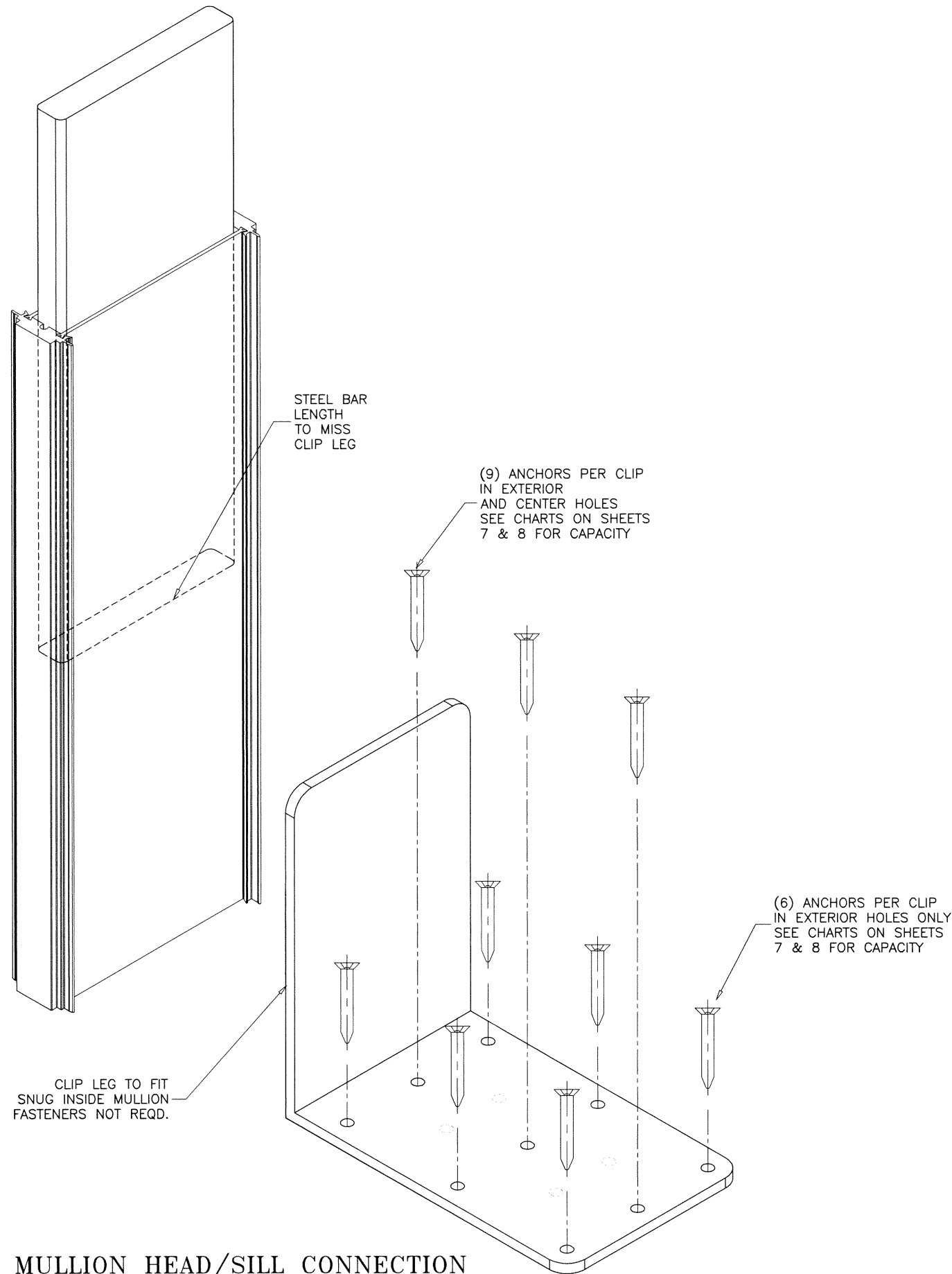
Western Window Systems
2200 E. Riverview Drive
Phoenix, AZ. 85034
Tel: (877) 268-1300 Fax: (876)

revisions:
no date by description

date: 05-01-19
scale: –
dr. by: TARIQ
chk. by:

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19-36F
sheet 8 of 11

MULLION 19-36F-WWS

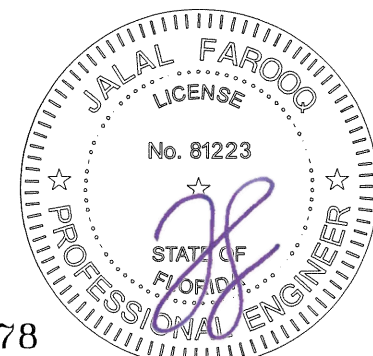


VERTICAL MULLION HEAD/SILL CONNECTION
HORIZONTAL MULLION JAMB CONNECTION

- TYPICAL ANCHORS:** SEE ELEV. FOR SPACING
- TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
THRU 1BY BUCKS INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
- TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
- TYPE 'C'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
THRU 1BY BUCKS INTO BLOCKS
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)
- TYPE 'D'— 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
DIRECTLY INTO BLOCKS
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)
- TYPE 'E'— 1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
AND
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
- CRITICAL EDGE DISTANCE**
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
- WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

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a f c
MULLION\19-36F-WWS

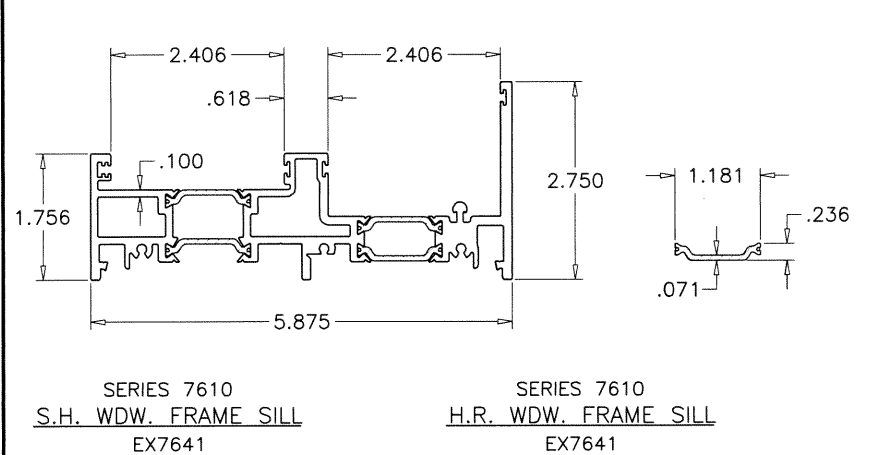
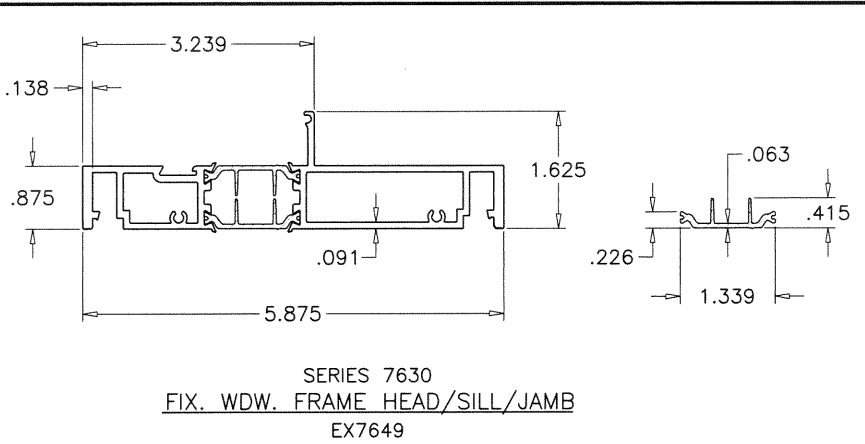
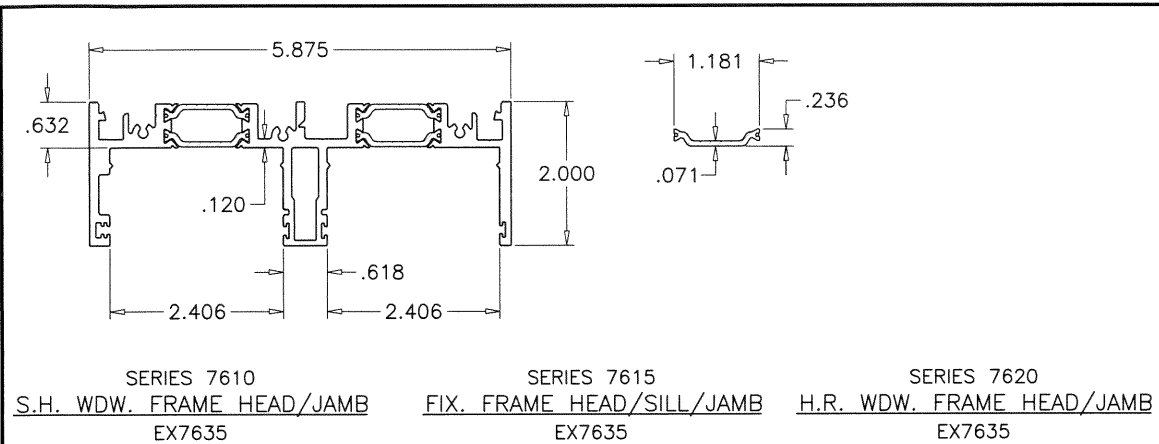
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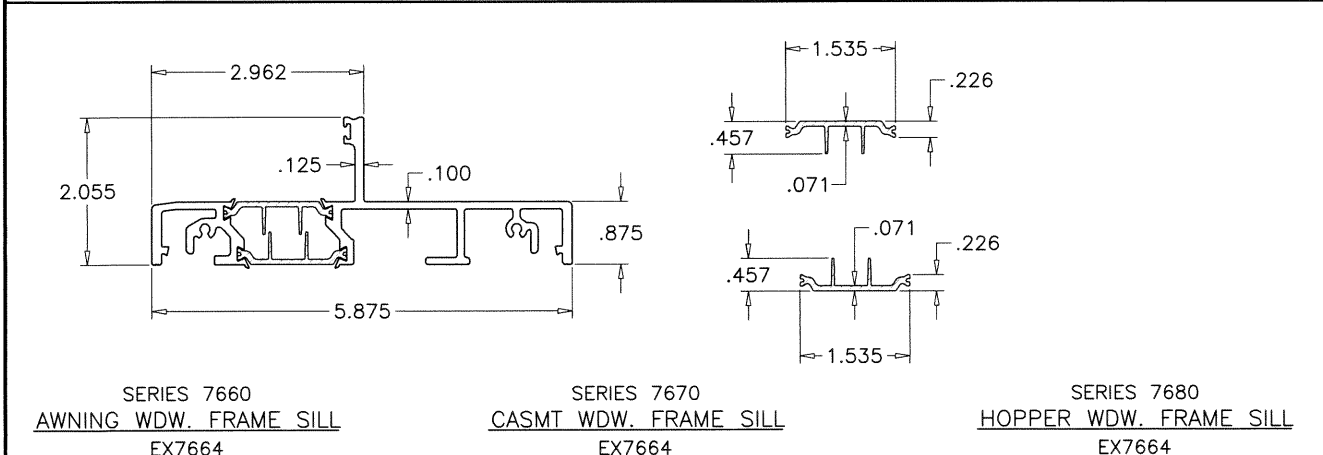
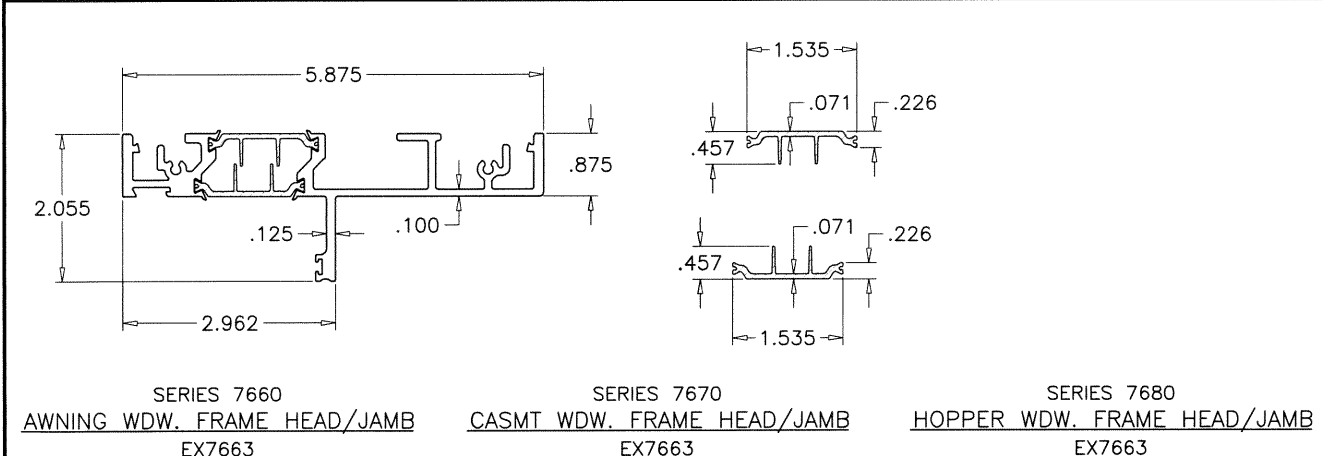
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dr. by: TARIQ
chk. by:

drawing no.
19-36F
sheet 9 of 11

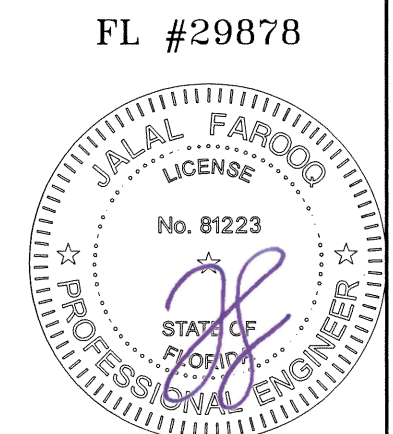


ALL FRAMES TO BE ALLOY 6063-T6
MULLION TO BE A36 STEEL, $F_u = 58$ KSI MIN.

INSULBARS
MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. = 781°C
SMOKE DENSITY = 1.63



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dr. by:	TARIQ				
chk. by:					

drawing no.

19-36F

sheet 10 of 11

FL #29878

MULLION
EX1000

SERIES 7900
FRENCH DOOR FRAME HEAD/JAMB
EX7900

SERIES 7900
FRENCH DOOR FRAME HEAD/JAMB
EX7925

SERIES 7980
PIVOT DOOR FRAME JAMB
EX7982

SERIES 7980
PIVOT DOOR FRAME HEAD
EX7980

MULLION CLIP
H1500M



drawing no.
19-36F

sheet 11 of 11

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