

SERIES 7660 (N.I.)
THERMALLY BROKEN ALUMINUM AWNING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS, SIDE BY SIDE UNITS OR TOP & BOTTOM COMBINATIONS OF AWNING/AWNING OR AWNING WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.

ALSO SIDE BY SIDE OR TOP & BOTTOM COMBINATIONS OF AWNING/AWNING IN MODULES OF TWO OR MORE WINDOWS WITH WINDOW FRAME JOINT ADAPTERS.
SEE SHEETS 8 FOR SIDE BY SIDE OR TOP & BOTTOM FRAME JOINTS CAPACITY.

LOWER DESIGN PRESSURE FROM WINDOWS CAPACITY CHART, SEPARATE MULLION APPROVAL OR FRAME JOINT CAPACITY CHART WILL APPLY TO ENTIRE SYSTEM.

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

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.

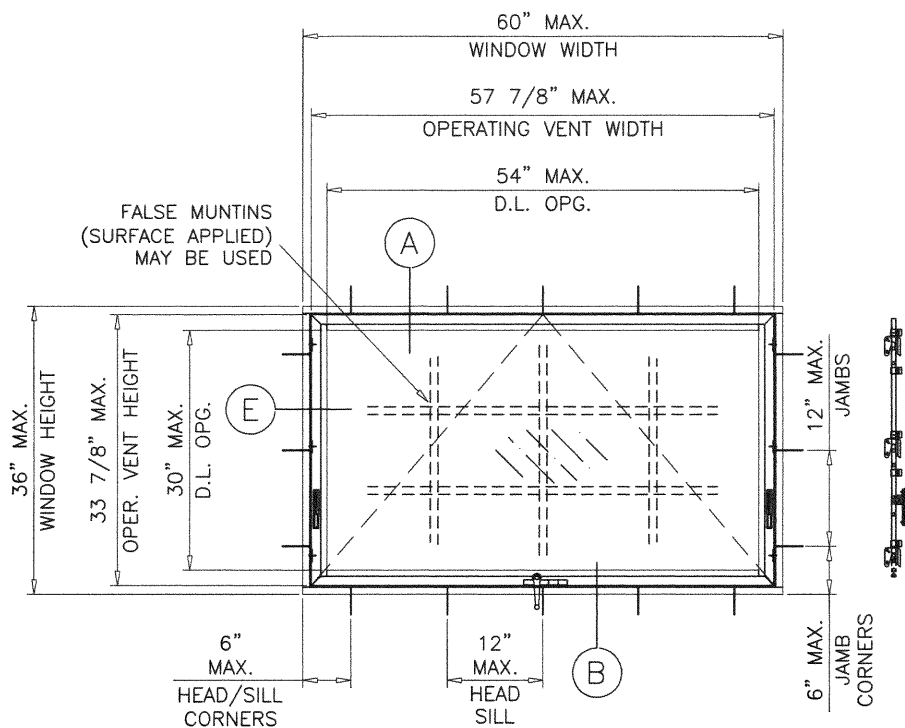
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

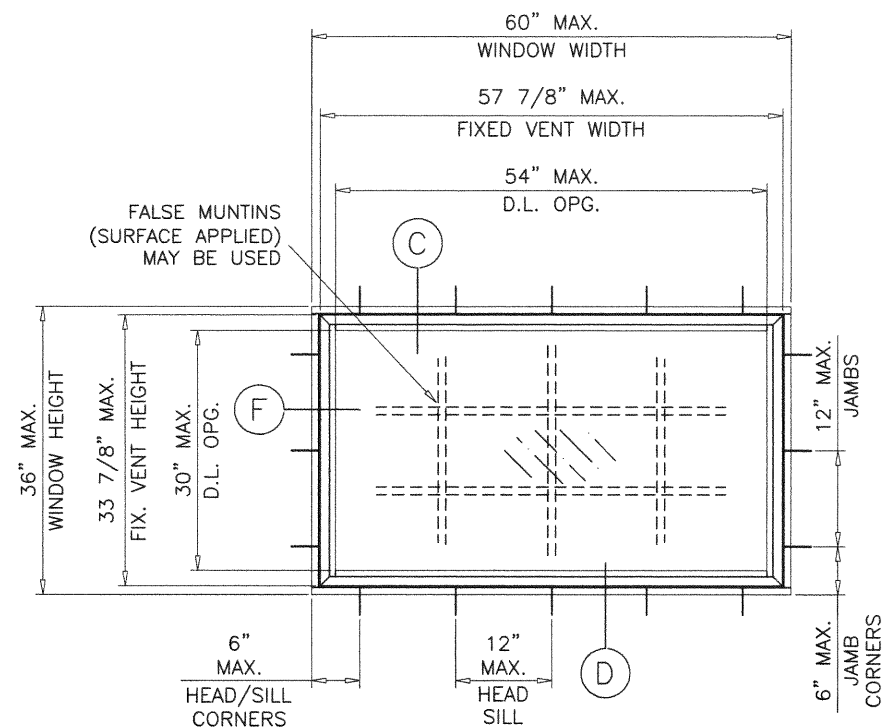
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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



TYPICAL ELEVATION
(OPERATING VENT)

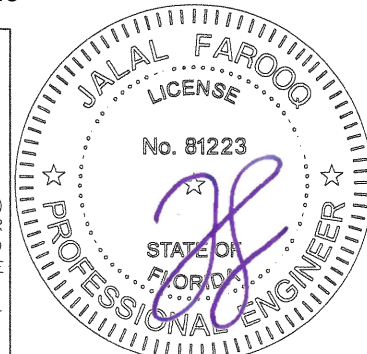


TYPICAL ELEVATION
(FIXED VENT)

THESE WINDOWS ARE NOT RATED FOR IMPACT.
INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

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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.

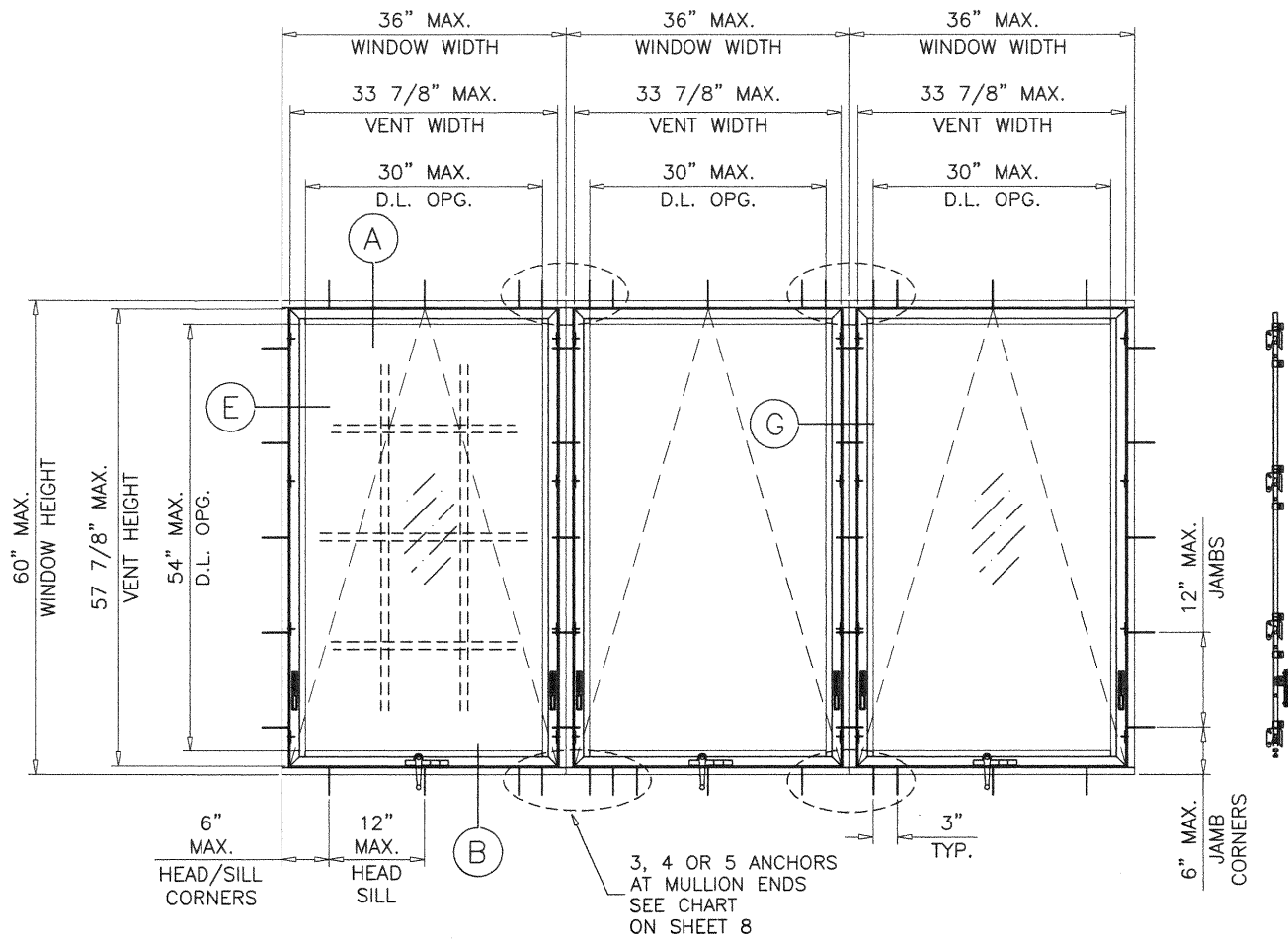


DAYLITE OPENINGS:
D.L.O. HEIGHT = WINDOW HEIGHT - 6.0"
D.L.O. WIDTH = WINDOW WIDTH - 6.0"
VENT HEIGHT = WINDOW HEIGHT - 2.125"
VENT WIDTH = WINDOW WIDTH - 2.125"

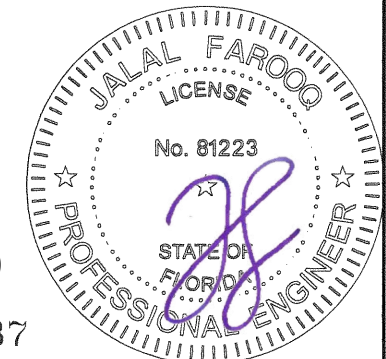
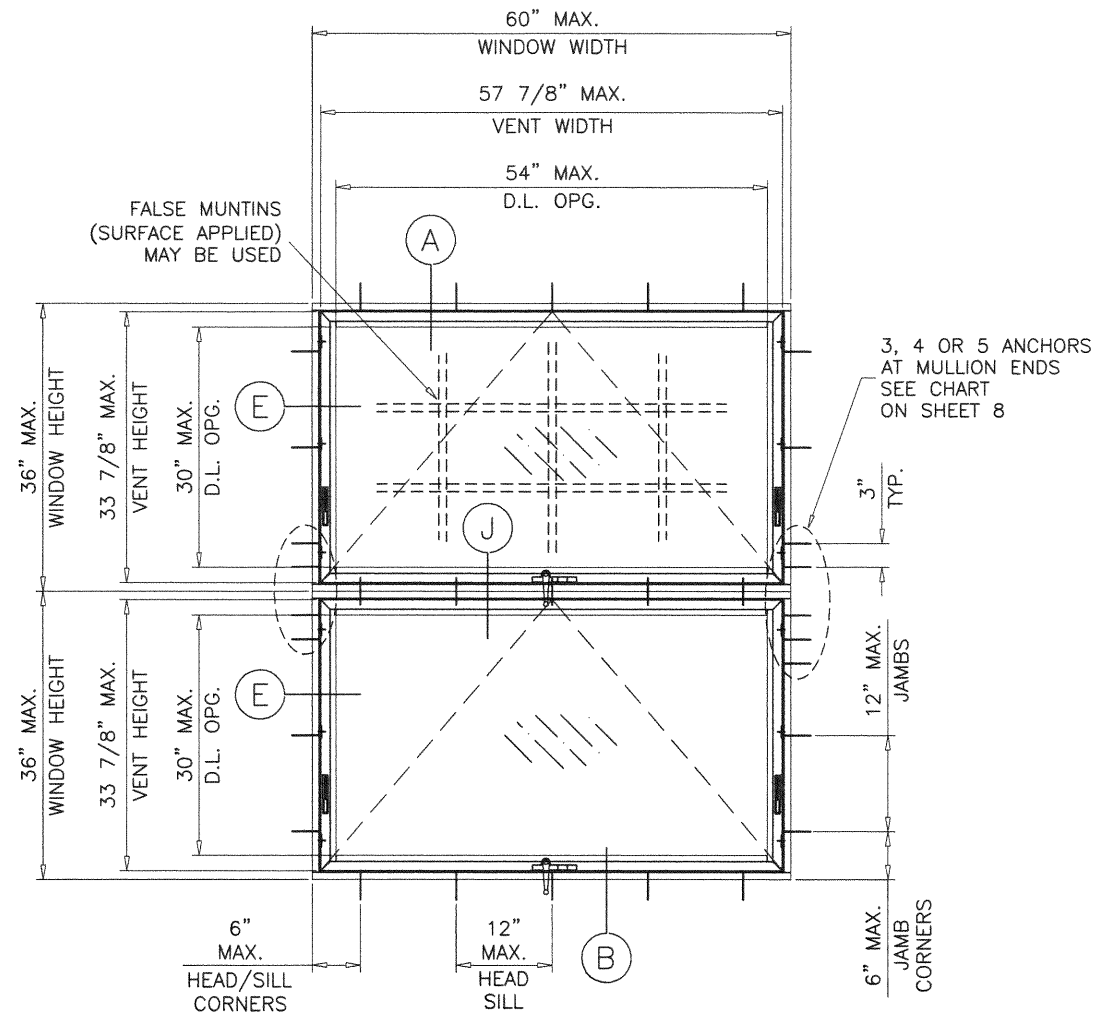
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL \ 18-75F-WWS

Series 7660 Aluminum Awning Window (N.I.)
Western Window Systems
2200 E. Riverview Drive
Phoenix, AZ. 85034
Tel: (877) 268-1300 Fax: (876)

revisions:	no	date	description	by
	A	09.11.20	UPDATED TO 2020 FBC	
date:	07-17-18			
scale:	1/2"=1'-0"			
dr:	TARIQ			
chk:	by:			
drawing no.	18-75F			
sheet	1 of 12			



TYPICAL ELEVATIONS
(TESTED UNITS)



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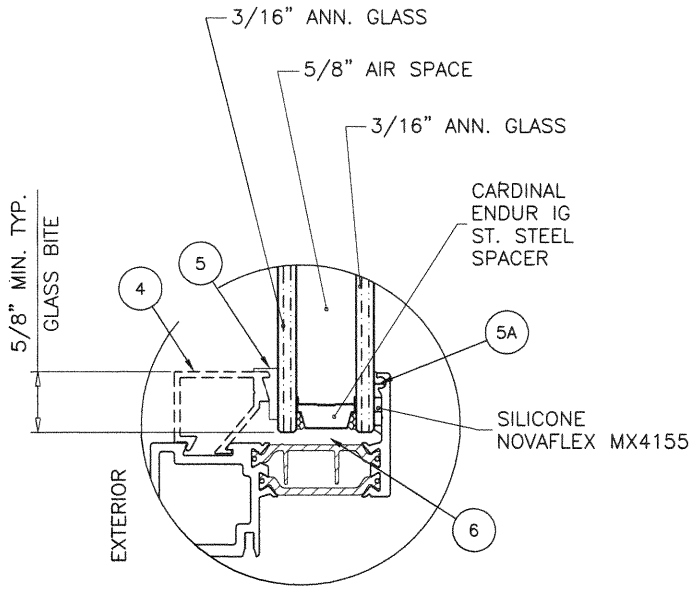
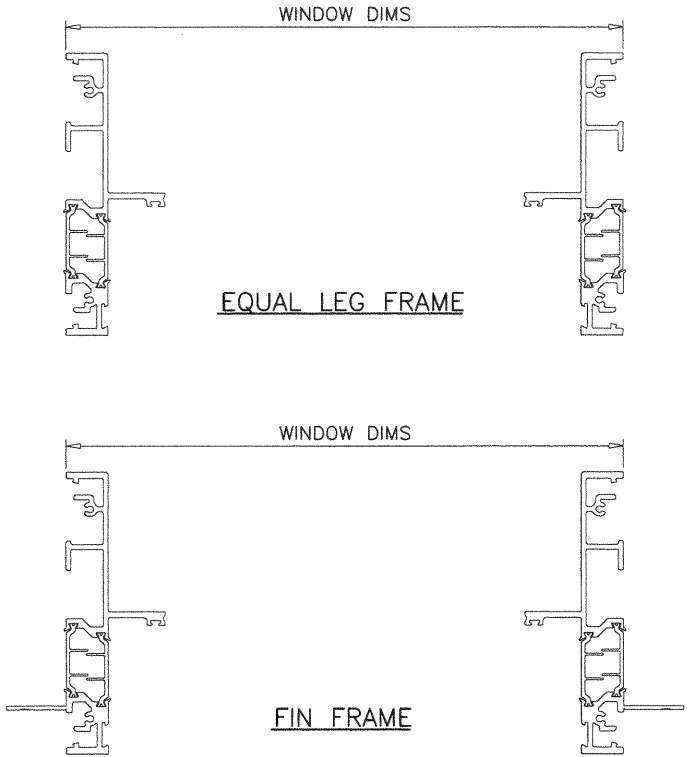
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drawing no.
18-75F

sheet 2 of 12

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		1" OVERALL INSUL. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
19-1/8"	26"	61.3	90.2
26-1/2"		61.3	83.3
37"		61.3	83.3
53-1/8"		61.3	77.2
19-1/8"	38-3/8"	61.3	90.2
26-1/2"		61.3	81.7
37"		58.5	58.5
53-1/8"		56.4	56.4
19-1/8"	50-5/8"	61.3	90.2
26-1/2"		61.3	77.5
37"		58.5	58.5
19-1/8"	56"	61.3	90.2
26-1/2"		61.3	74.9
37"		58.5	58.5
19-1/8"	63"	61.3	90.2
26-1/2"		61.3	72.4

DESIGN LOAD CAPACITY - PSF			
WINDOW DIMS.		1" OVERALL INSUL. GLASS	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
30"	24"	61.3	90.2
36"		61.3	90.2
42"		61.3	88.4
48"		61.3	84.2
54"		61.3	81.2
60"		61.3	78.9
30"	30"	61.3	72.2
36"		61.3	72.2
42"		61.3	72.2
48"		61.3	72.2
54"		61.3	70.0
60"		61.3	67.4
30"	36"	61.3	72.2
36"		60.2	60.2
42"		60.2	60.2
48"		60.2	60.2
54"		60.2	60.2
60"		60.2	60.2
30"	42"	61.3	72.2
36"		60.2	60.2
42"		51.6	51.6
48"		51.6	51.6
30"	48"	61.3	72.2
36"		60.2	60.2
42"		51.6	51.6
30"	60"	61.3	67.4
36"		60.2	60.2



GLAZING DETAIL
1" OVERALL INSUL. GLASS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

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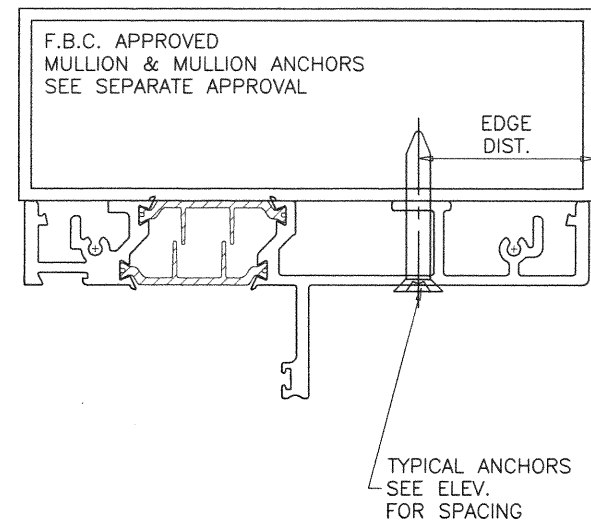
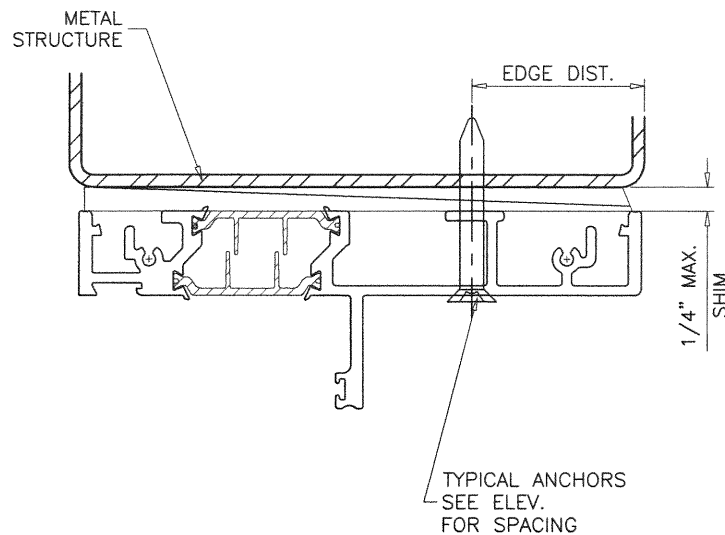
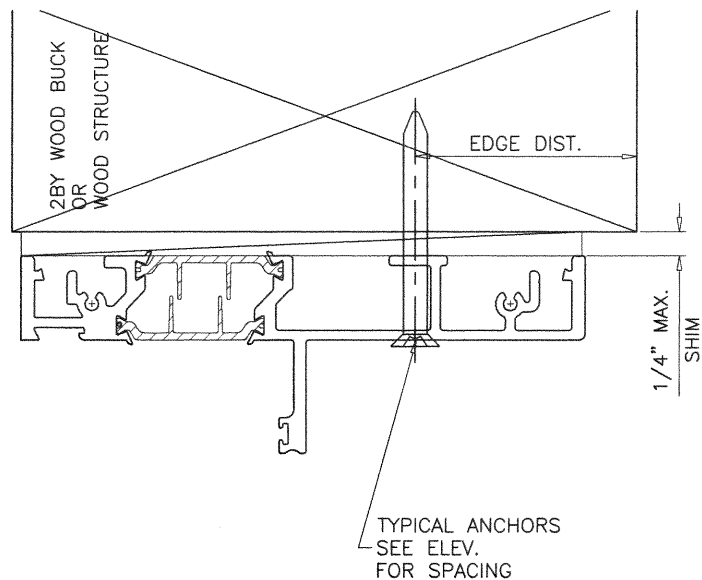
Series 7660 Aluminum Awning Window (N.I.)

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

revisions:
no. date by description

date: 07-17-18
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
18-75F
sheet 3 of 12

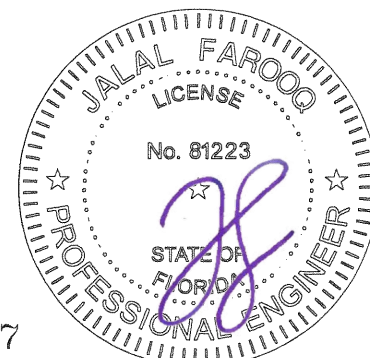


WOOD BUCKS AND METAL STRUCTURE NOT BY 'WESTERN WDW.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
3/16" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=117$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
#10 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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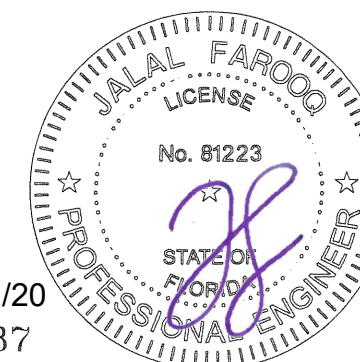
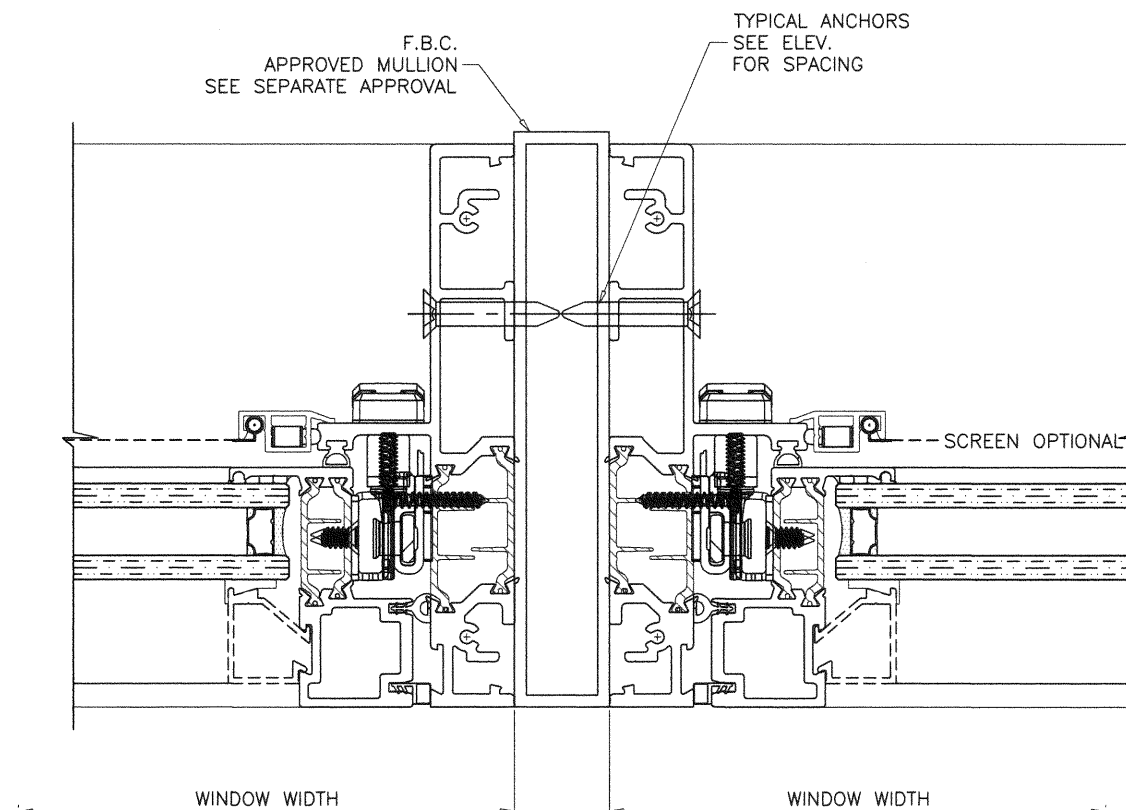
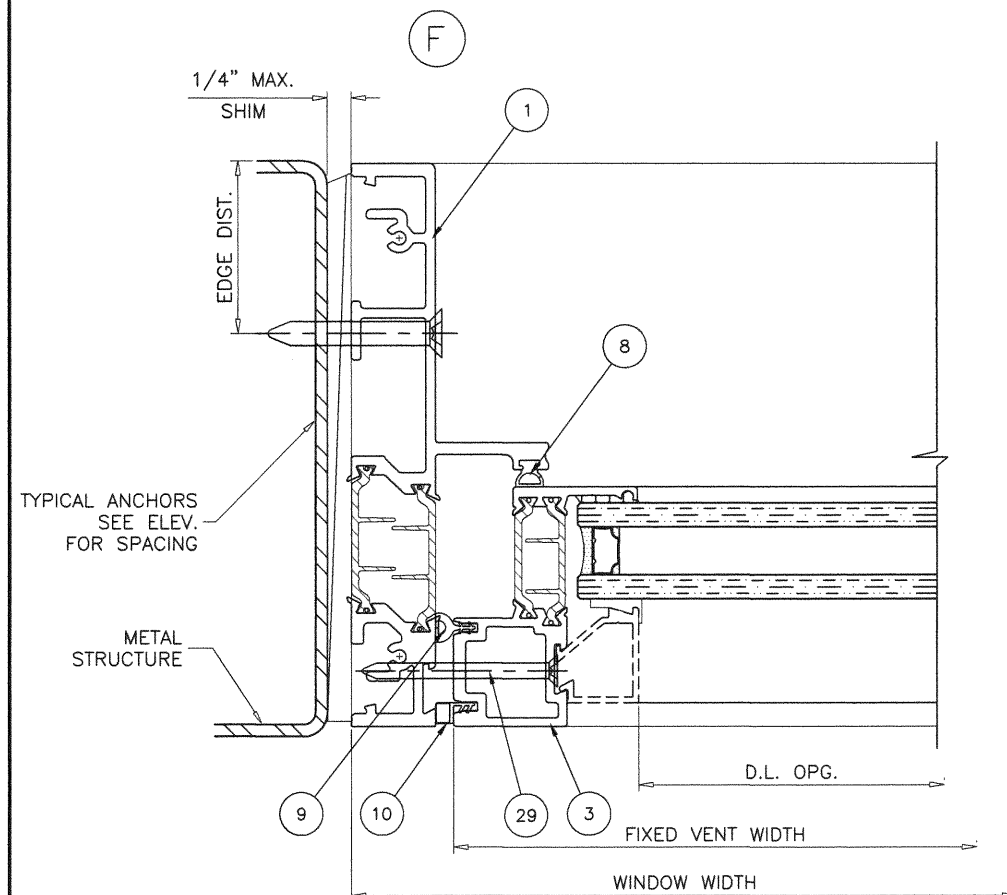
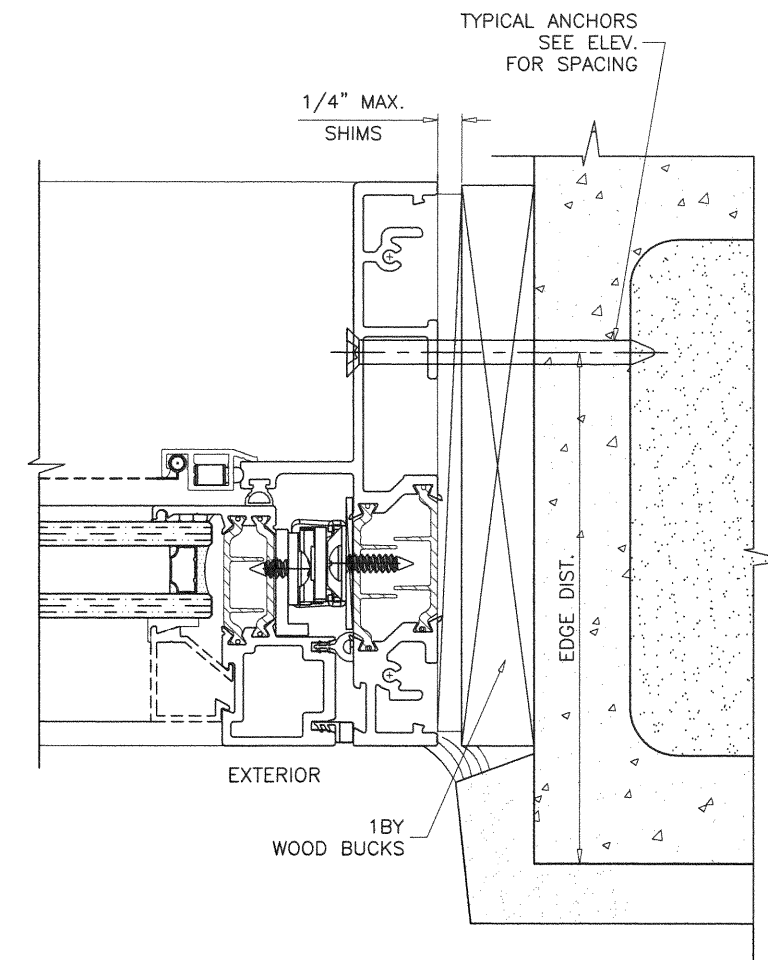
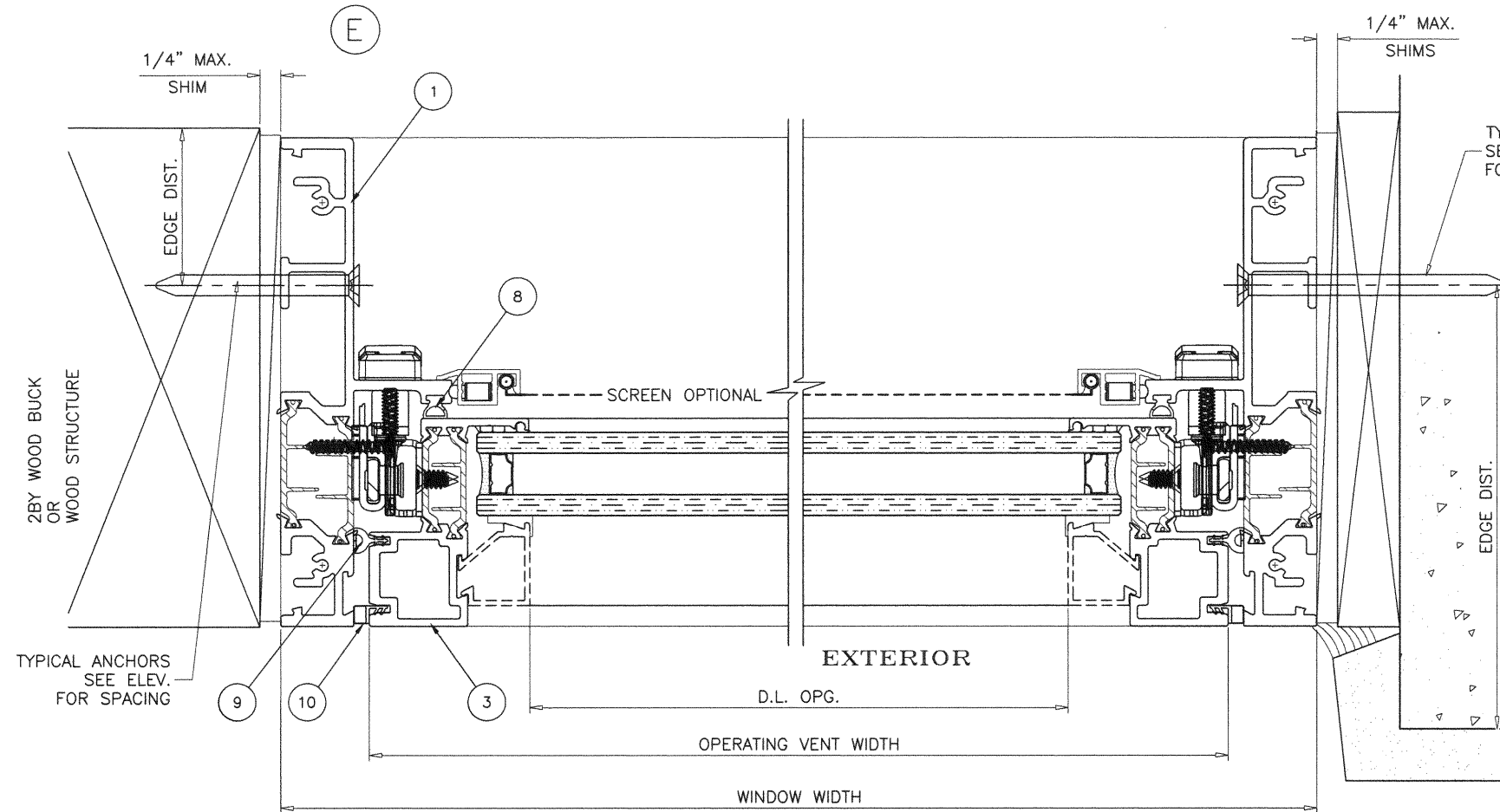
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18-75F

sheet 5 of 12

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(C.A.N. 3538)

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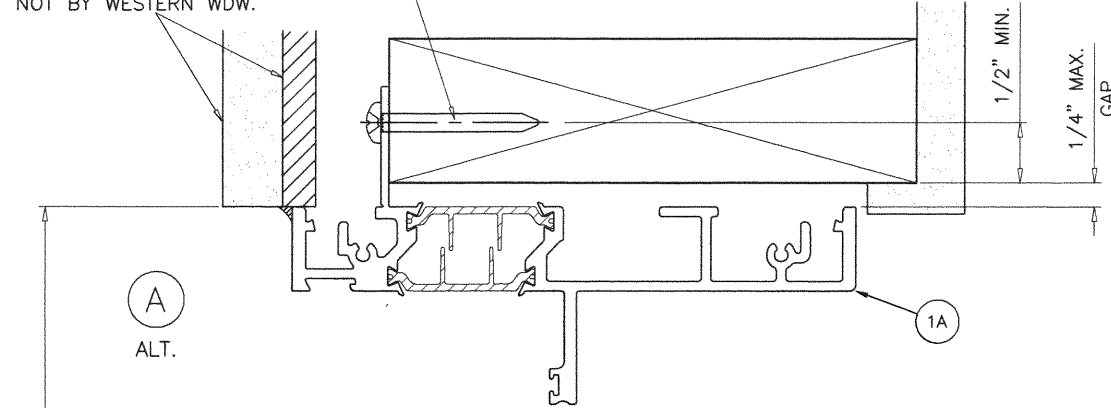
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sheet 6 of 12

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COMP-ANL 18-75F-WWS

ILLUSTRATIVE DTLS. ONLY
EXT. OR INT. FINISHES
NOT BY WESTERN WDW.

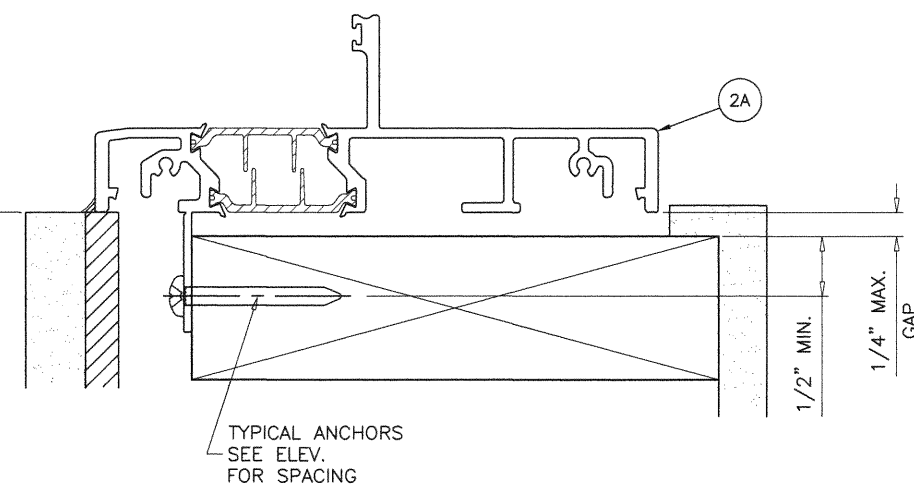
TYPICAL ANCHORS
SEE ELEV.
FOR SPACING



WINDOW HEIGHT

EXTERIOR

B
ALT.

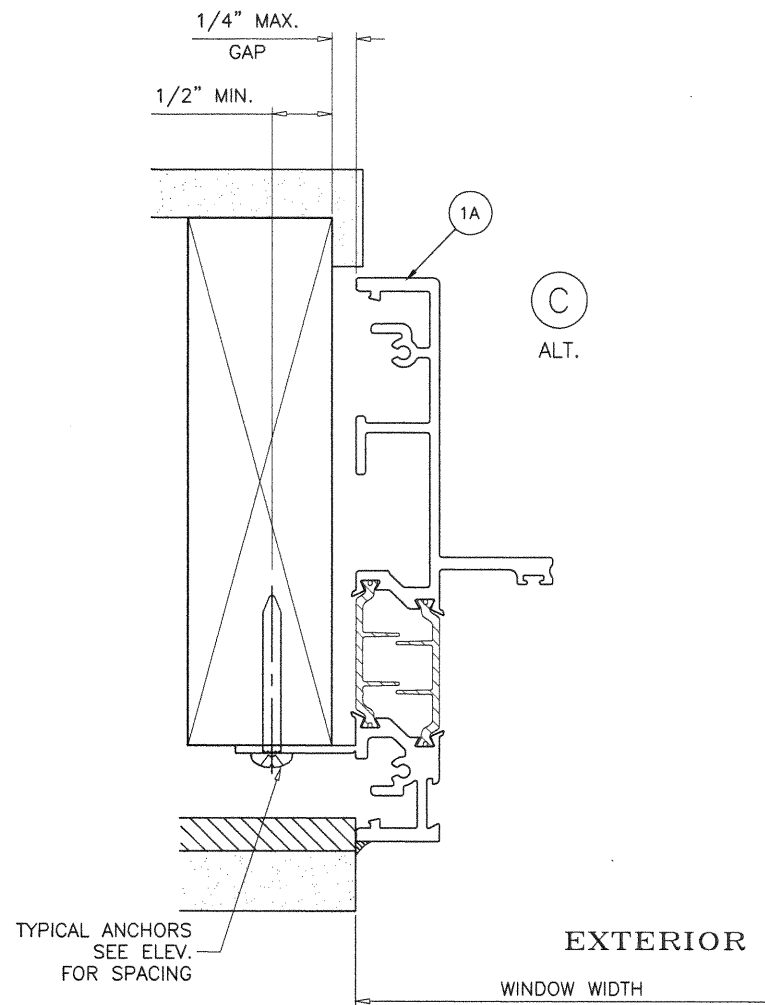


TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#14 WOOD SCREWS (GRADE 2 CRS)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD



TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

EXTERIOR

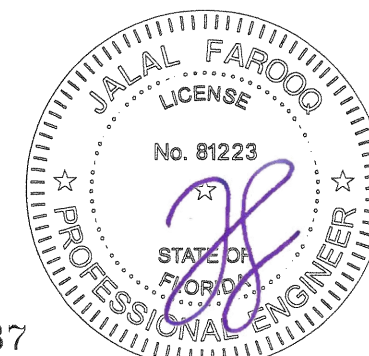
WINDOW WIDTH

INSTALLATION DETAILS WITH FIN FRAMES

SEE SHEETS 4 & 5 FOR WINDOW DETAILS

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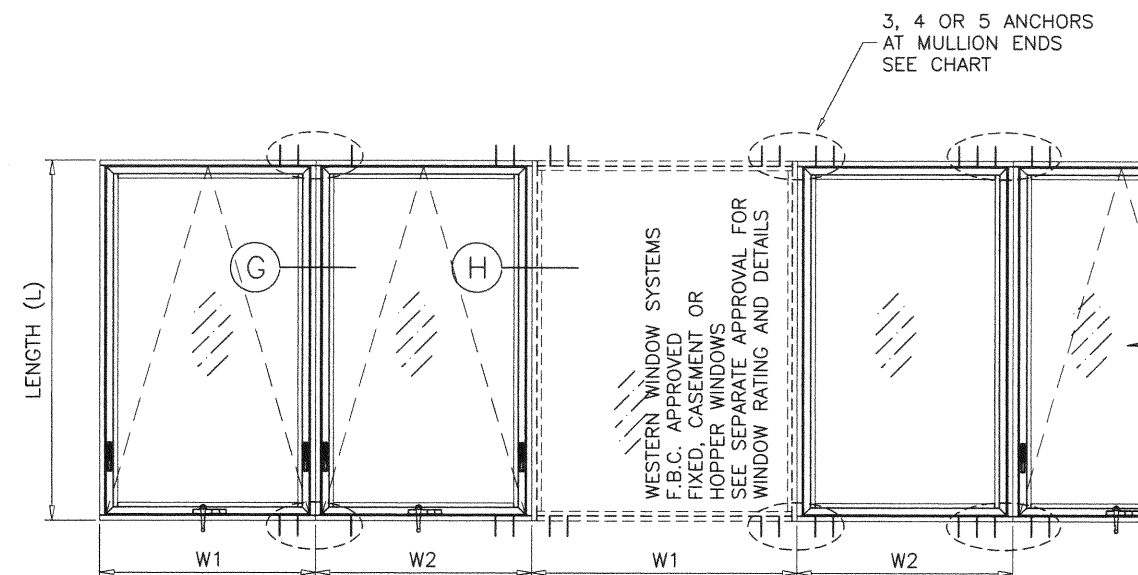
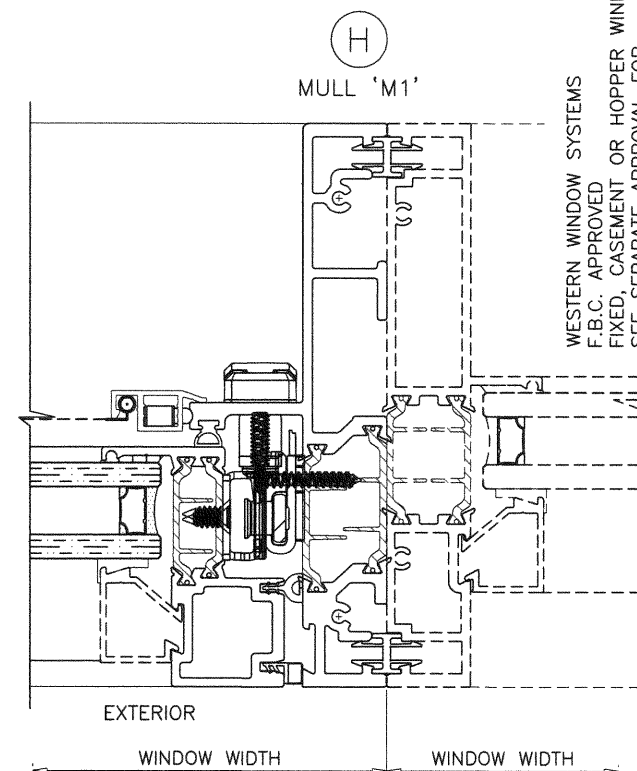
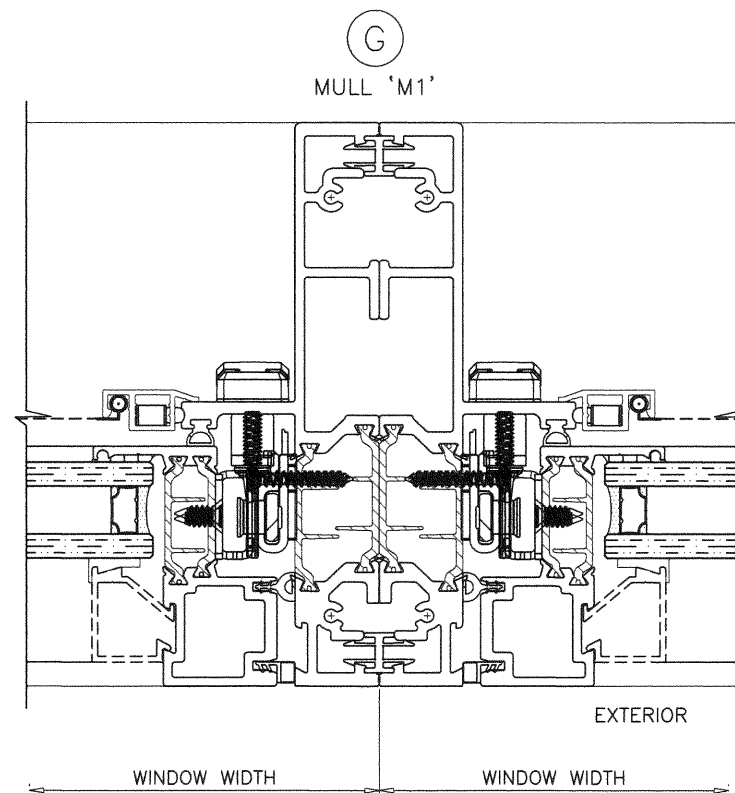
sheet 7 of 12

MULLION LOAD CAPACITY - PSF			
WINDOW DIMS.		VERTICAL MULL 'M1'	NO. OF ANCHORS AT MULLION ENDS
WIDTH (W)	LENGTH (L)	EXT.(+) INT.(-)	
19-1/8"	26"	70.2	3
26-1/2"		70.2	3
37"		70.2	3
53-1/8"		70.2	3
19-1/8"	38-3/8"	70.2	3
26-1/2"		70.2	4
37"		70.2	4
53-1/8"		70.2	4
19-1/8"	50-5/8"	70.2	4
26-1/2"		70.2	4
37"		70.2	4
19-1/8"	56"	70.2	4
26-1/2"		70.2	4
37"		70.2	5
19-1/8"	60"	70.2	4
26-1/2"		70.2	4
30"	24"	70.2	3
36"		70.2	3
42"		70.2	3
48"		70.2	3
54"		70.2	3
60"		70.2	3
30"	30"	70.2	3
36"		70.2	3
42"		70.2	3
48"		70.2	3
54"		70.2	3
60"		70.2	3
30"	36"	70.2	3
36"		70.2	4
42"		70.2	4
48"		70.2	4
54"		70.2	4
60"		70.2	4
30"	42"	70.2	4
36"		70.2	4
42"		70.2	4
48"		70.2	4
30"	48"	70.2	4
36"		70.2	4
42"		70.2	4
48"		70.2	4
30"	54"	70.2	4
36"		70.2	5
30"	60"	70.2	5
36"		70.2	5

NOTES:

- USE CHART ON THIS SHEET FOR SIDE BY SIDE CAPACITY OF WINDOW FRAME JOINTS.
- FOR AWNING WINDOW CAPACITY SEE CHART ON SHEET 2.
- FOR WESTERN FIXED, CASEMENT OR HOPPER WINDOW CAPACITY SEE SEPARATE APPROVAL.

LOWER VALUES FROM STEPS 1, 2 OR 3 WILL APPLY TO ENTIRE SYSTEM.

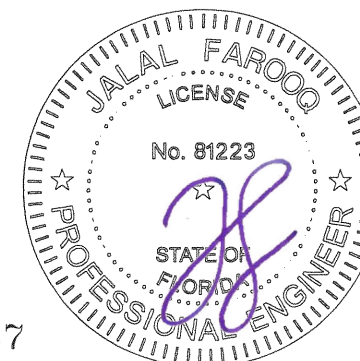


TYPICAL ELEVATION
SIDE BY SIDE WINDOWS
APPLIES TO TWO OR MORE WINDOWS

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

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18-75F

sheet 8 of 12

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COMP-ANL\18-75F-WWS

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	EX7663	AS REQD..	FRAME HEAD/JAMB (EQUAL LEG)	6063-T6	-
1A	EX7645	AS REQD..	FRAME HEAD/JAMB (FIN)	6063-T6	-
2	EX7664	AS REQD..	FRAME SILL (EQUAL LEG)	6063-T6	-
2A	EX7644	AS REQD..	FRAME SILL (FIN)	6063-T6	-
2.1	EX7665	AS REQD..	HI-RISE FRAME SILL (EQUAL LEG)	6063-T6	-
3	EX7646	AS REQD..	VENT	6063-T6	-
4	-	AS REQD.	GLASS STOP (DECORATIVE)	6063-T6	OPTIONAL
5	-	AS REQD.	GALZING GASKET (EXTERIOR)	EPDM	OPTIONAL
5A	W7600	AS REQD.	GALZING SPACER (INTERIOR)	EPDM	-
6	-	2/ LITE	SETTING BLOCK, AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
7	#8 X 1"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	PH SMS
8	W7603	AS REQD.	FRAME W'STRIPPING (FOAM-TITE, .375"H X .290 DIA., .187" T-SLOT)	FOAM	AMESBURY TRUTH
9	-	-	VENT INTERIOR W'STRIPPING	VINYL	-
10	W7608	AS REQD.	VENT EXTERIOR W'STRIPPING	VINYL	ULTRAFAB
11	H8013	1/ CORNER	CORNER KEY	6061-T6	-
12	E7661	AS REQD.	MULLION ADAPTER	6063-T6	-
13	H8014	AS REQD.	TIE BAR GUIDE	ST. STEEL	PROTO LABS
14	F5030SSS	AS REQD.	TIE BAR GUIDE FASTENERS	ST. STEEL	#8 X 1" PH PH SMS
15	H8015	AS REQD.	TIE BAR KEEPER	ST. STEEL	-
16	F5088SSS	AS REQD.	HINGE BRACKET FASTENERS, KEEPER INSTALLATION FASTENERS	ST. STEEL	8A X 3/4" PH PH SMS
17	F5085SSS	AS REQD.	KEEPER INSTALLATION STRUT FASTENERS	ST. STEEL	10A X 3/4" PH FH SMS
18	H7999	AS REQD.	LOCK	CAST ZINC	AMESBURY TRUTH
19	H7984	AS REQD.	LOCK SUPPORT PLATE	ST. STEEL	AMESBURY TRUTH
20	F7602	AS REQD.	HINGE FASTENERS, LOCK INSTALLATION FASTENERS	ST. STEEL	#10 X 1/2"
21	H7992S	AS REQD.	OPERATOR COVER	PLASTIC	AMESBURY TRUTH
22	F5116SS	AS REQD.	OPERATOR INSTALLATION FASTENERS	ST. STEEL	#8 X 5/8" PH FH SMS
23	H8010.14	AS REQD.	VENT BRACKET MULTI-BAR HINGE	304 ST. STEEL	FINE LINE LASER CUTTING
24	H8011.14	AS REQD.	FRAME BRACKET MULTI-BAR HINGE	304 ST. STEEL	FINE LINE LASER CUTTING
25	H7995	-	MULTI-POINT TIE BAR ASSEMBLY	ST. STEEL	AMESBURY TRUTH
26	H7983	-	AWNING OPERATOR	CAST ZINC	AMESBURY TRUTH
27	H7998	-	OPERATOR TRACK	ST. STEEL	AMESBURY TRUTH
28	F7600	-	OPERATOR TRACK FASTENERS, CORNER KEY FASTENERS	ST. STEEL	8-32 X 5/8" FH THREAD CUTTING SCREWS
29	-	AS REQD.	FIXED VENT FASTENERS, AT 6" FROM VENT ENDS	ST. STEEL	#10 X 2" FH SMS

SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

LOCKS:

MULTI-POINT LOCK SYSTEM BY 'TRUTH' AT EACH JAMB
LOCK OPERATOR AT 8" FROM SILL
FASTENED TO JAMBS WITH (2) #10 X 5/8" SMS.
LOCK BAR SECURED TO JAMB WITH LOCK GUIDES
SPACED AT 12-3/4" O.C. MAX.
EACH GUIDE FASTENED WITH (2) #10 X 3/4" P PH SMS

STAINLESS STEEL KEEPERS AT VENT
EACH FASTENED WITH (2) #10 X 5/8" P FH SMS

HINGES:

4 BAR ST/ST FRICTION HINGES BY 'TRUTH' LOCATED AT TOP CORNERS

FASTENED THROUGH A METAL PLATE INTO THERMAL BREAK AT EACH JAMB WITH (3) #10 X 5/8" P PH SELF DRILLING SCREWS
1-3/8" X 13" X .07" METAL PLATE FASTENED TO JAMBS WITH (3) #8 X 5/8" PH FH SCREWS

FASTENED THROUGH ALUMINUM 'L' INTO THERMAL BREAK AT EACH VENT WITH (3) #10 X 5/8" P PH SELF DRILLING SCREWS
9-3/4" LONG ALUMINUM 'L' FASTENED TO VENT STILES WITH (3) #8 X 5/8" PH FH SCREWS

OPERATOR:

SCISSOR ROTO OPERATOR BY 'TRUTH'
LOCATED AT MIDSPAN OF FRAME SILL
FASTENED WITH (8) #8 X 5/8" P FH SMS



Sealed: 9/11/20

FL #27937

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

COMP-ANL\18-75F-WWS

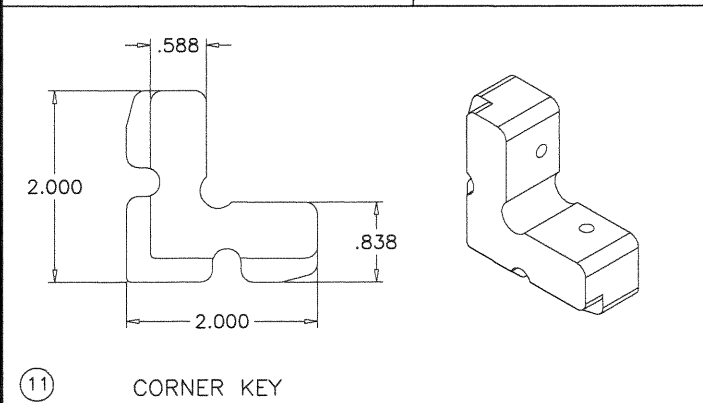
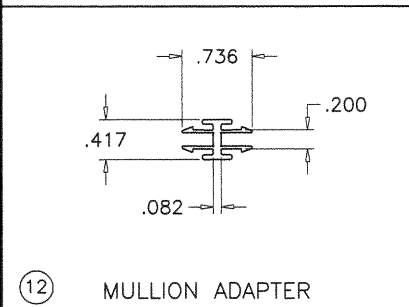
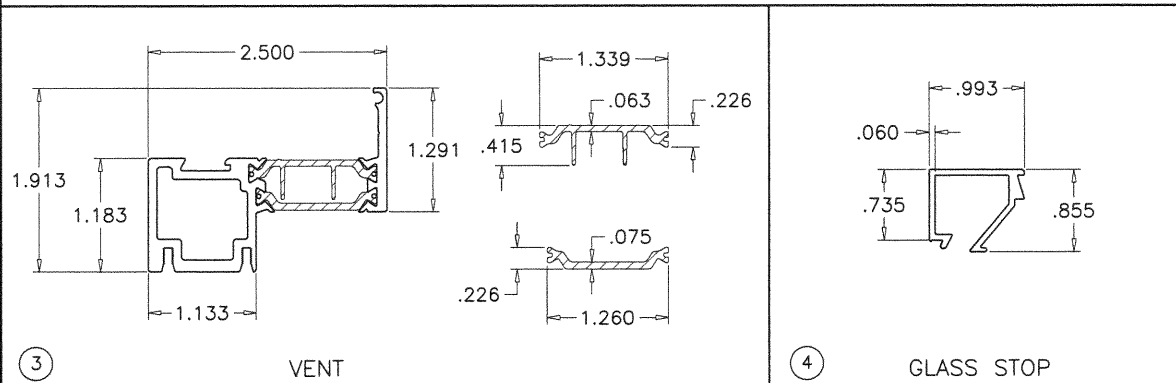
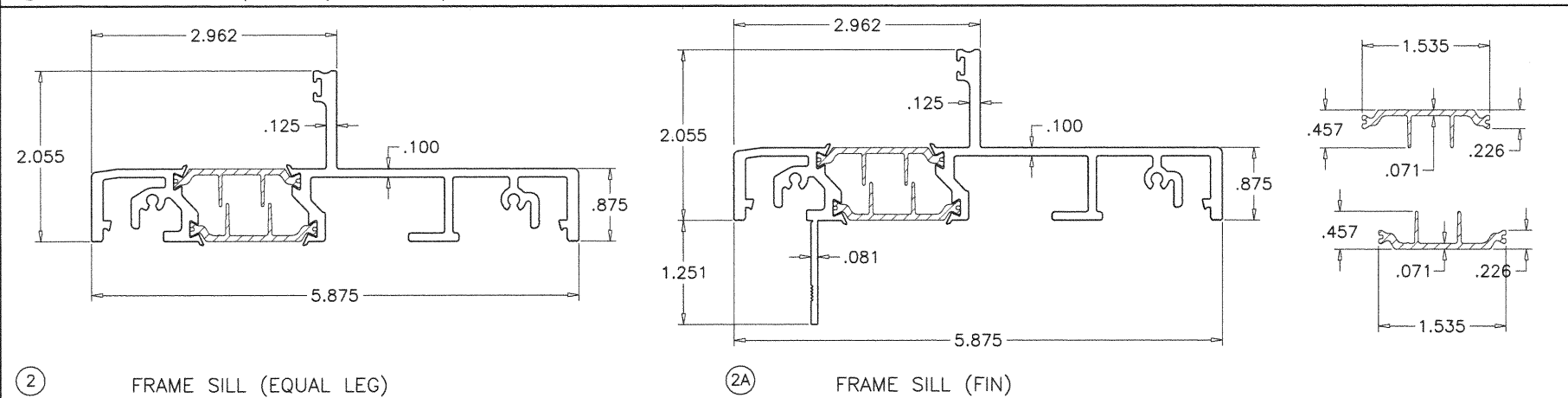
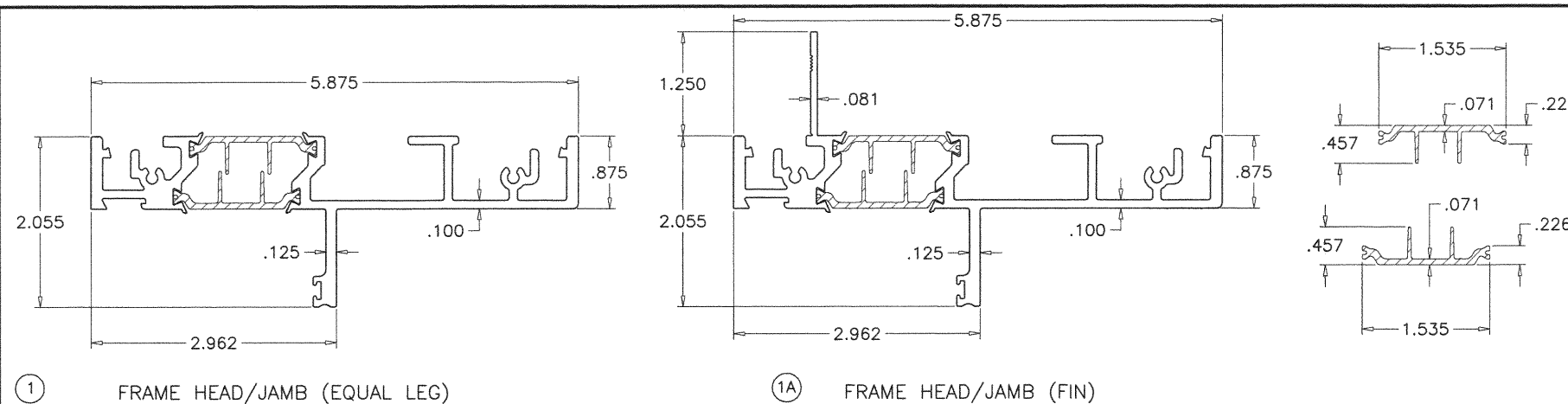
Series 7660 Aluminum Awning Window (N.I.)

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

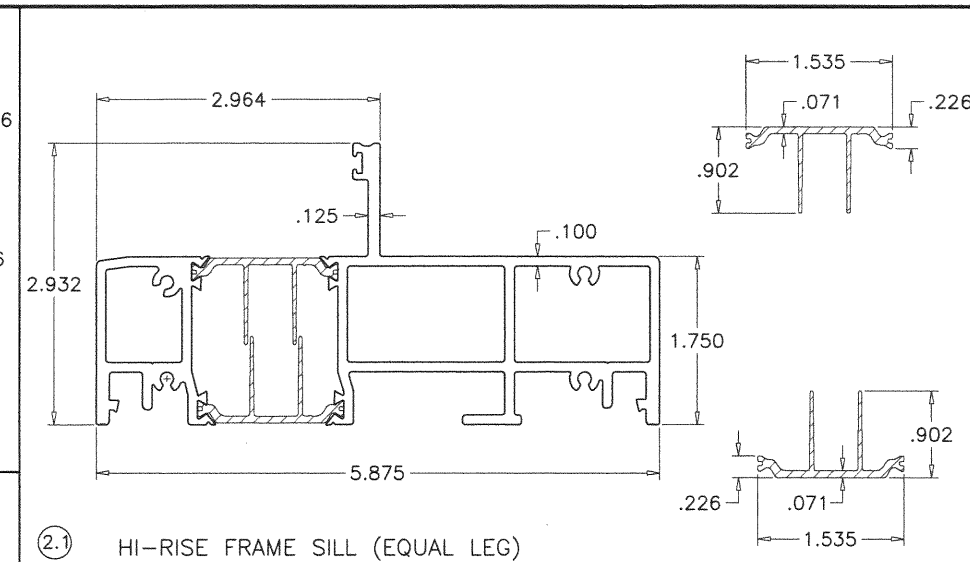
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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
18-75F
sheet 10 of 12



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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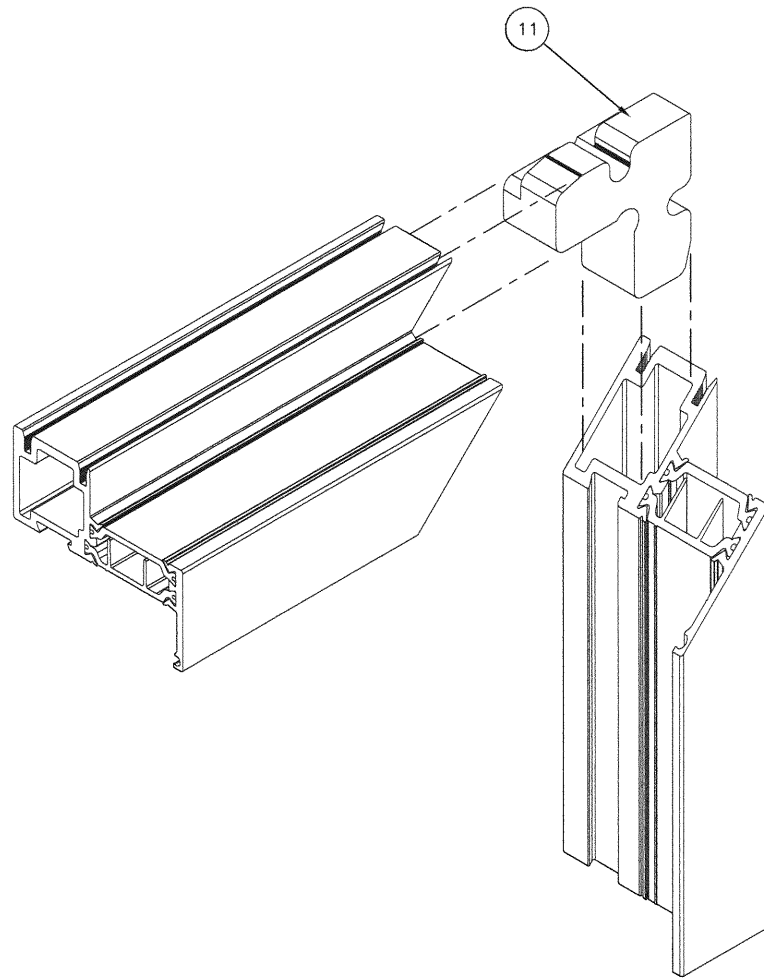
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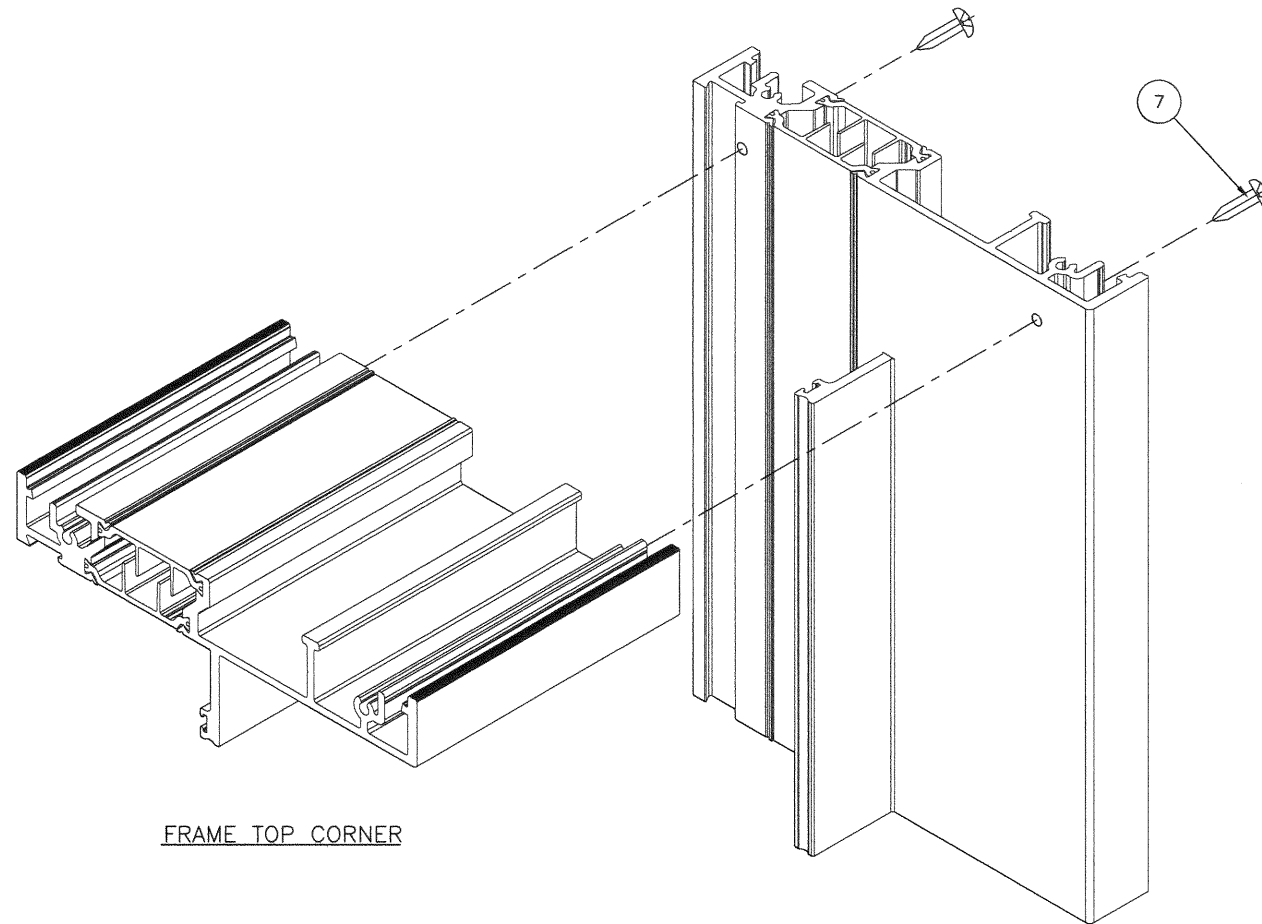
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no	date		

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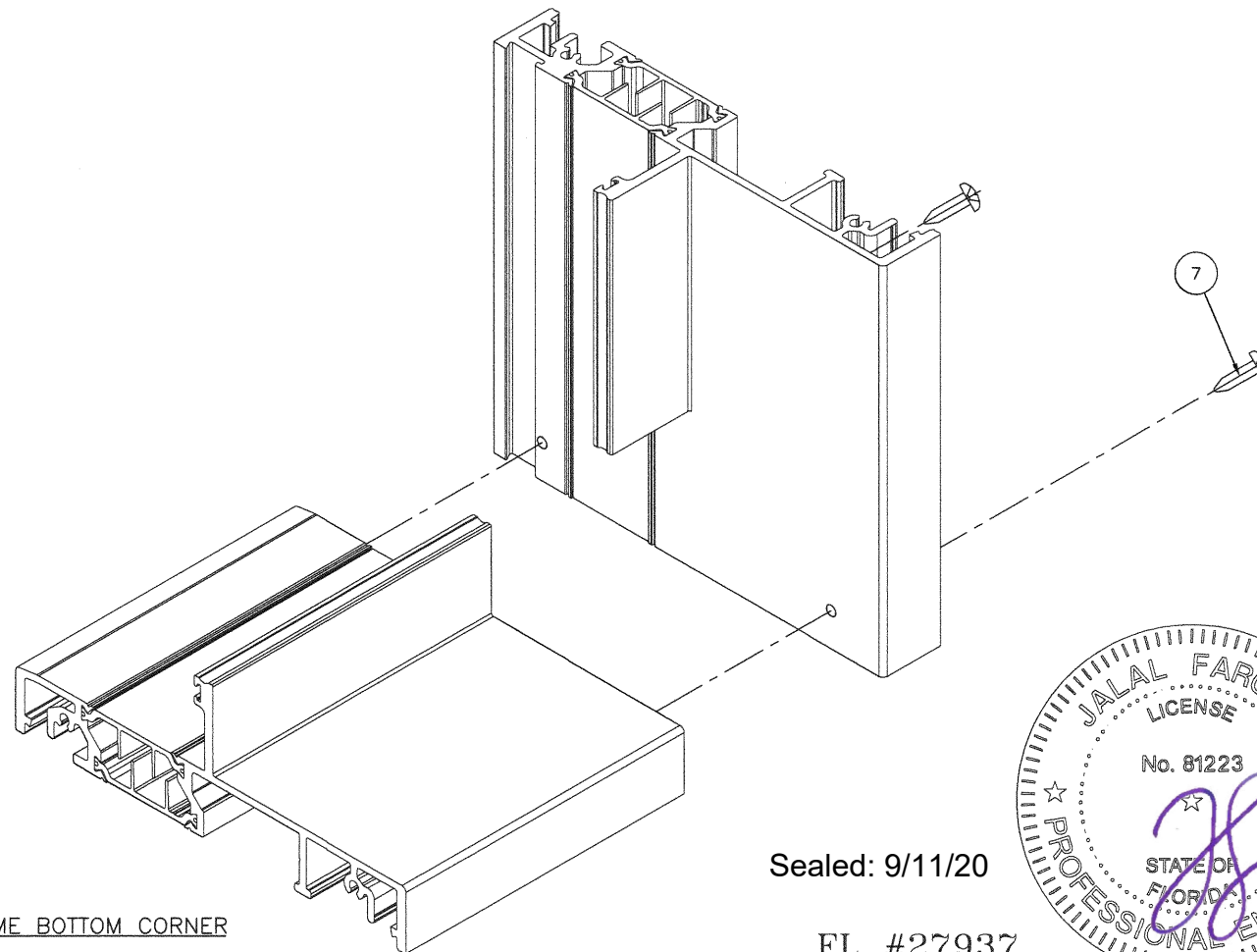
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18-75F
 sheet 11 of 12



VENT TOP/BOTTOM CORNER



FRAME TOP CORNER



FRAME BOTTOM CORNER

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