

TYPICAL ELEVATIONS  
TESTED UNITS

**SERIES 6900**  
**ALUMINUM HORIZONTAL SLIDING WINDOW**

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

APPROVAL APPLIES TO SINGLE HORIZONTAL SLIDING WINDOWS, ALSO COMBINATIONS OF H.S./H.S. OR HORIZONTAL SLIDING WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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).

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.

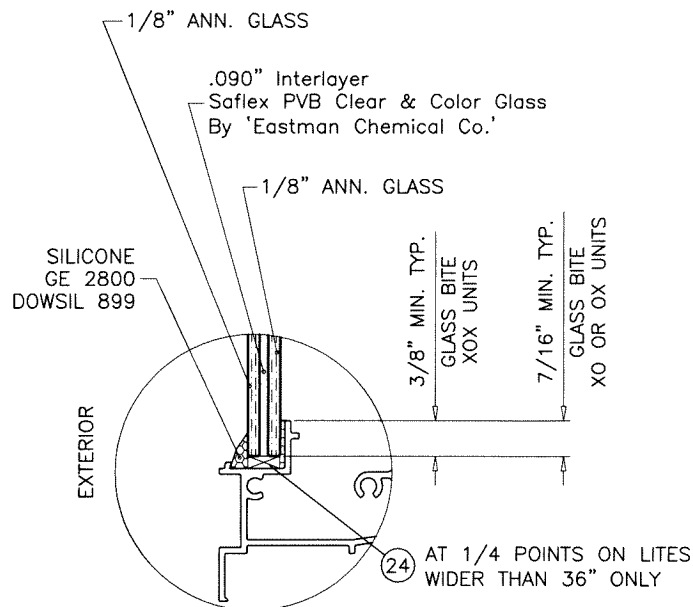
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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.

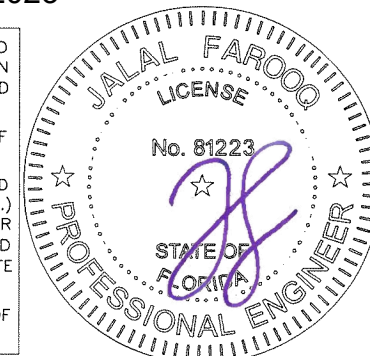


GLAZING DETAIL

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Sealed: 7/25/2023 FL #21850

- 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.



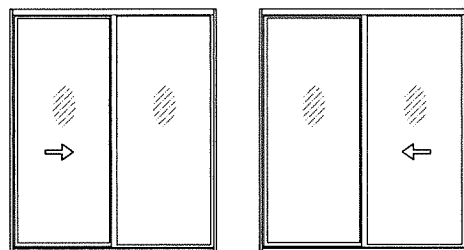
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W16-58AWP

SERIES 6900 ALUM HORIZONTAL SLIDING WDW. (L.M.I.)  
**Assura Windows & Doors, LLC.**  
1543 N. Powerline Road  
Pompano Beach, FL. 33069  
Tel. (954) 781-4430 www.assurawindows.com

revisions:	no.	date	by	description
	A	07.14.23		UPDATED TO 2023 FBC
date:	07-28-16			
scale:	1/2"=1'-0"			
dr. by:	TARIQ			
chk. by:				
drawing no.	W16-58			
sheet	1 of 6			

DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES)				
WINDOW DIMS.		A	5/16" LAM. GLASS	
WIDTH	HEIGHT		EXT.(+)	INT.(-)
24"	24"	3	60.0	80.0
36"		4	60.0	80.0
48"		5	60.0	80.0
60"		6	60.0	80.0
72"		7	60.0	80.0
24"	36"	3	60.0	80.0
36"		4	60.0	80.0
48"		5	60.0	80.0
60"		6	60.0	80.0
72"		7	60.0	80.0
24"	48"	3	60.0	80.0
36"		4	60.0	80.0
48"		5	60.0	80.0
60"		6	60.0	80.0
72"		7	60.0	80.0
24"	60"	3	60.0	80.0
36"		4	60.0	80.0
48"		5	60.0	80.0
60"		6	60.0	73.2
72"		7	60.0	60.0
26-1/2"	26"	3	60.0	80.0
37"		4	60.0	80.0
53-1/8"		5	60.0	80.0
74"		7	60.0	80.0
26-1/2"	38-3/8"	3	60.0	80.0
37"		4	60.0	80.0
53-1/8"		5	60.0	80.0
74"		7	60.0	80.0
26-1/2"	50-5/8"	3	60.0	80.0
37"		4	60.0	80.0
53-1/8"		5	60.0	80.0
74"		7	60.0	80.0
26-1/2"	63"	3	60.0	80.0
37"		4	60.0	80.0
53-1/8"		5	60.0	74.8
74"		7	60.0	60.0

A = NO. OF ANCHORS PER HEAD & SILL

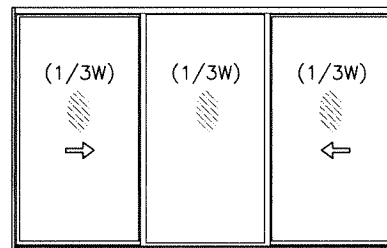


XO

OX

DESIGN LOAD CAPACITY - PSF (XOX SIZES)				
WINDOW DIMS.		A	5/16" LAM. GLASS	
WIDTH	HEIGHT		EXT.(+)	INT.(-)
72"	24"	7	60.0	80.0
84"		8	60.0	80.0
96"		9	60.0	80.0
108"		10	60.0	80.0
72"		36"	7	60.0
84"	8		60.0	80.0
96"	9		60.0	80.0
108"	10		60.0	80.0
72"	48"		7	60.0
84"		8	60.0	80.0
96"		9	60.0	80.0
108"		10	60.0	80.0
72"		60"	7	60.0
84"	8		60.0	76.7
96"	9		60.0	60.0
108"	10		60.0	60.0
74"	26"		7	60.0
106-1/4"		10	60.0	80.0
111"		10	60.0	80.0
74"		38-3/8"	7	60.0
106-1/4"	10		60.0	80.0
111"	10		60.0	80.0
74"	50-5/8"		7	60.0
106-1/4"		10	60.0	80.0
111"		10	60.0	80.0
74"		63"	7	60.0
106-1/4"	10		60.0	60.0
111"	10		60.0	60.0

A = NO. OF ANCHORS PER HEAD & SILL

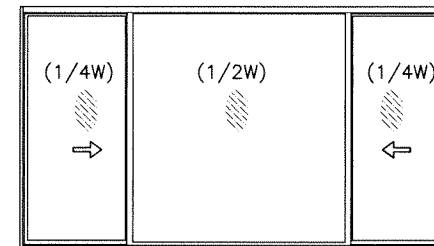


OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

XOX

DESIGN LOAD CAPACITY - PSF (XOX SIZES)					
WINDOW DIMS.		A	5/16" LAM. GLASS		
WIDTH	HEIGHT		EXT.(+)	INT.(-)	
72"	24"	7	60.0	80.0	
84"		8	60.0	80.0	
96"		9	60.0	80.0	
108"		10	60.0	80.0	
72"		36"	7	60.0	80.0
84"	8		60.0	80.0	
96"	9		60.0	80.0	
108"	10		60.0	60.0	
72"	48"		7	60.0	80.0
84"		8	60.0	60.0	
96"		9	60.0	60.0	
72"		60"	7	60.0	60.0
74"		26"	7	60.0	80.0
106-1/4"	10		60.0	80.0	
111"	10		60.0	80.0	
74"	38-3/8"	7	60.0	80.0	
106-1/4"		10	60.0	60.0	
111"		10	60.0	60.0	
74"	50-5/8"	7	60.0	80.0	
74"	63"	7	60.0	60.0	

A = NO. OF ANCHORS PER HEAD & SILL

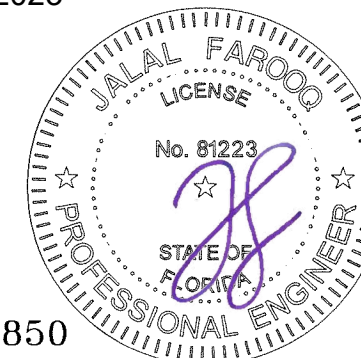


OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

XOX

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

Sealed: 7/25/2023



FL #21850

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

SERIES 6900 ALUM HORIZONTAL SLIDING WDW. (L.M.I.)  
**Assura Windows & Doors, LLC.**  
1543 N. Powerline Road  
Pompano Beach, FL. 33069  
Tel. (954) 781-4430 www.assurawindows.com

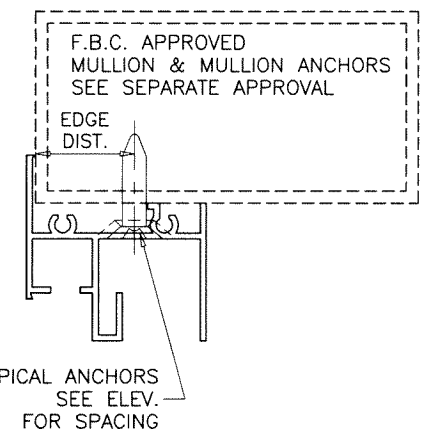
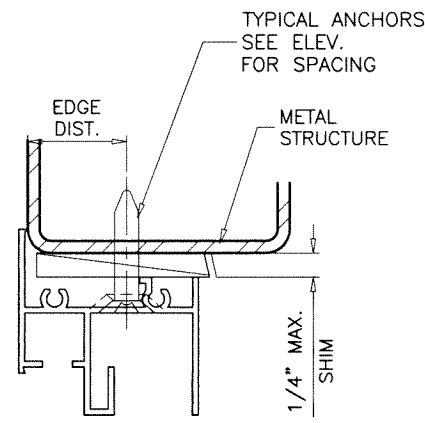
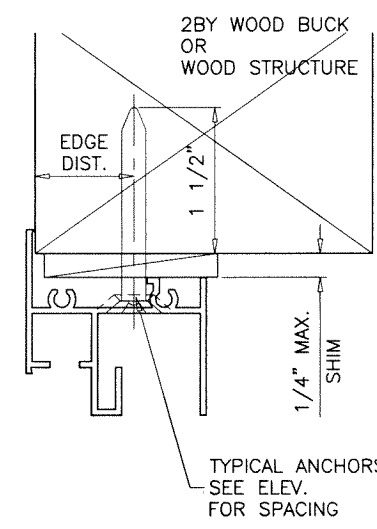
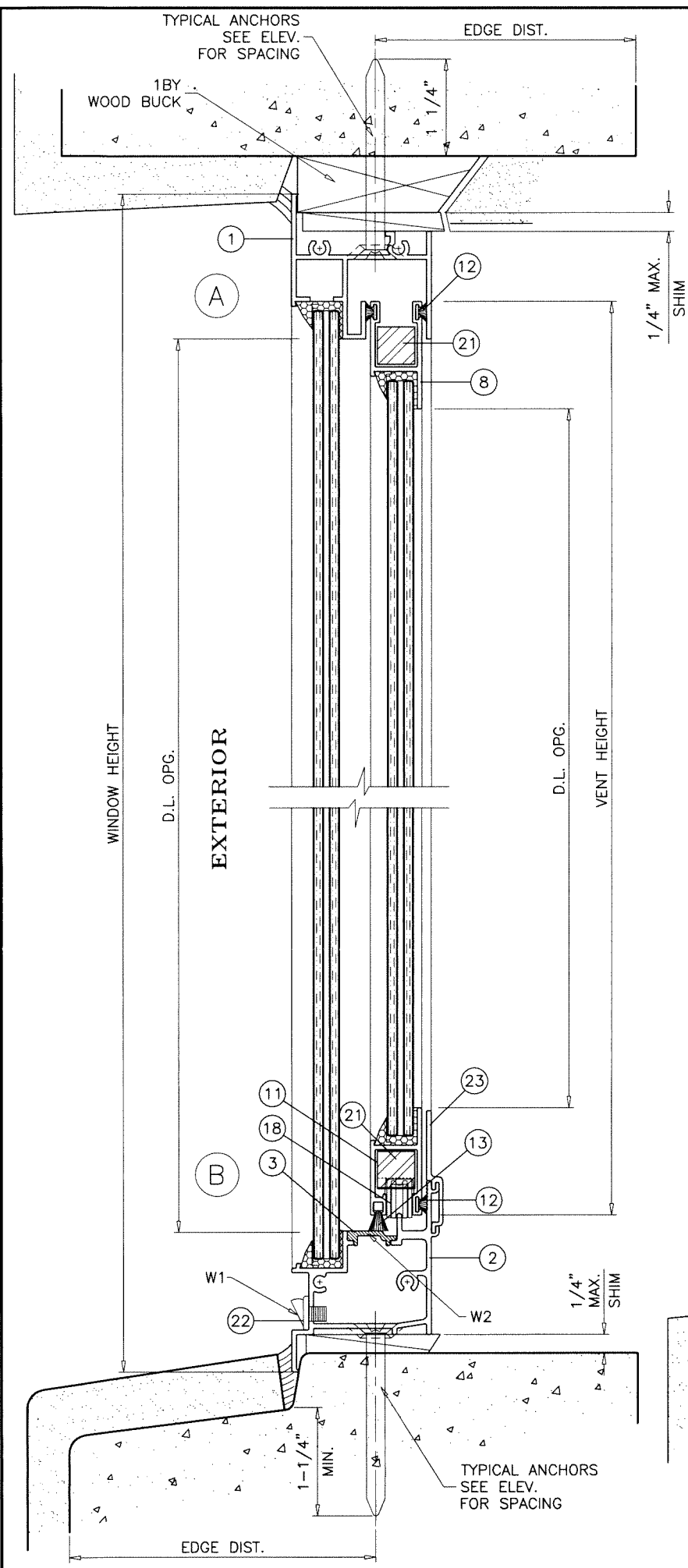
no	date	description

date: 07-28-16	scale: -	dr. by: TARIQ	chk. by:
----------------	----------	---------------	----------

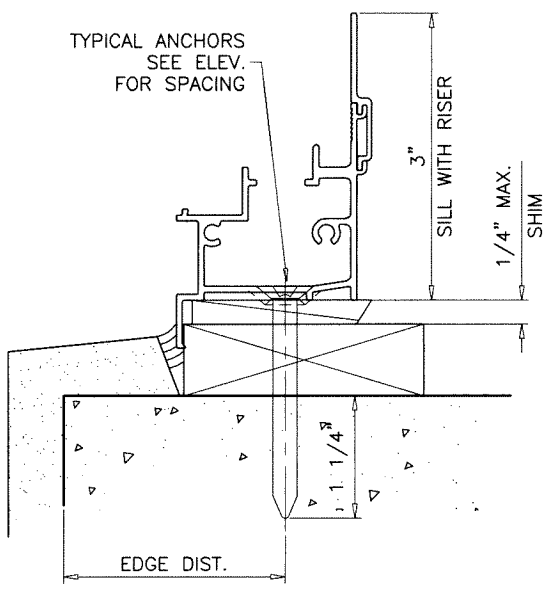
drawing no.  
**W16-58**  
sheet 2 of 6

COMP-ANL\W16-58AWP





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

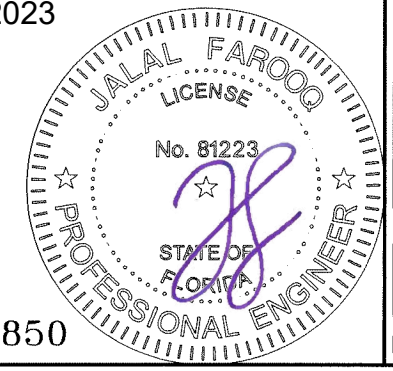


**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING  
**1/4" DIA. TAPCON BY 'ITW'** (Fu=125 KSI, Fy=100 KSI)  
**1/4" DIA. ULTRACON+ BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR BLOCKS  
 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)  
**#14 SMS OR SELF DRILLING SCREWS** (GRADE 2 CRS)  
 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. (Fy = 36 KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)  
**#12 SMS OR SELF DRILLING SCREWS** (GRADE 2 CRS)  
 INTO F.B.C. APPROVED MULLIONS  
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (NO SHIMS)  
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.) (NO SHIMS)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)  
**TYPICAL 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.

**SEALANTS:**  
 FRAME CORNERS AND VENT CORNER SEAMS TO BE SEALED WITH 'SCHNEE MOREHEAD 5504' SEALANT.

**WEEPHOLES:**  
 W1 = 1-1/2" X 1/4" WEEPHOLES AT 6" FROM SASH ENDS WITH PLASTIC BAFFLE.  
 W2 = 1" LONG WEEP NOTCH AT EACH END

Sealed: 7/25/2023



FL #21850

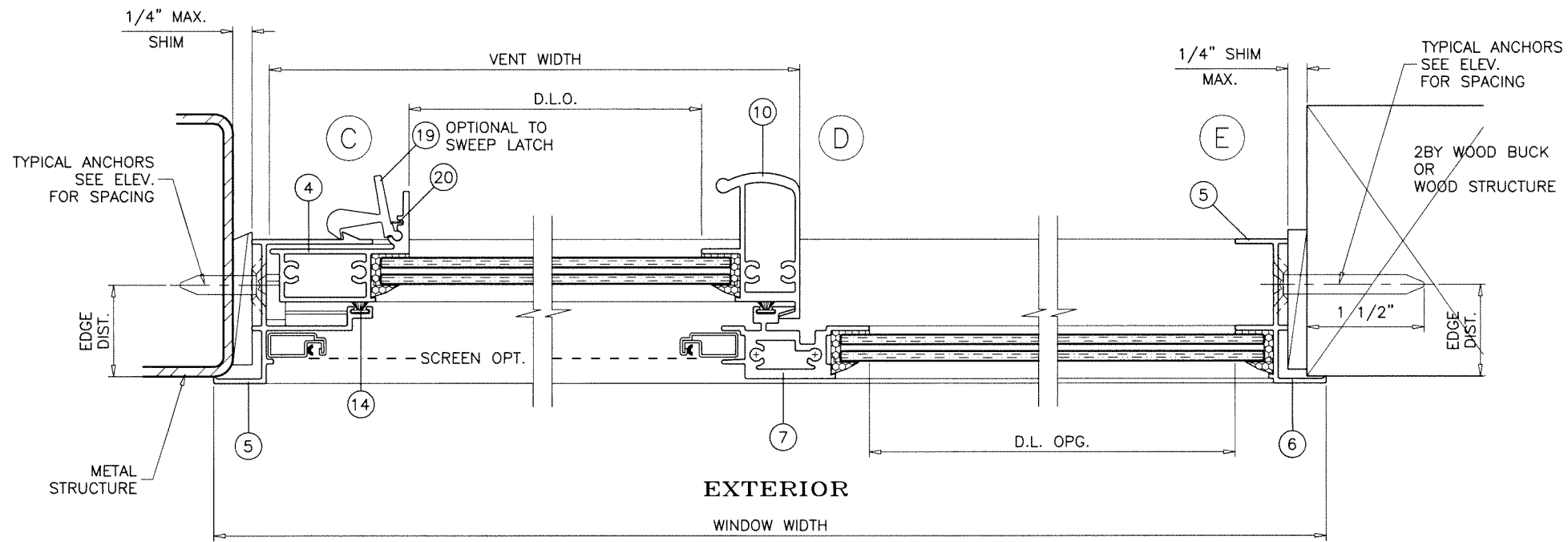
**afc**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL \ W16-58AWP

SERIES 6900 ALUM HORIZONTAL SLIDING WDW. (L.M.I.)  
**Assura Windows & Doors, LLC.**  
 1543 N. Powerline Road  
 Pompano Beach, FL. 33069  
 Tel. (954) 781-4430 www.assurawindows.com

revisions:	no	date	description

date: 07-28-16	scale: 1/2" = 1"
dr. by: TARIQ	chk. by:

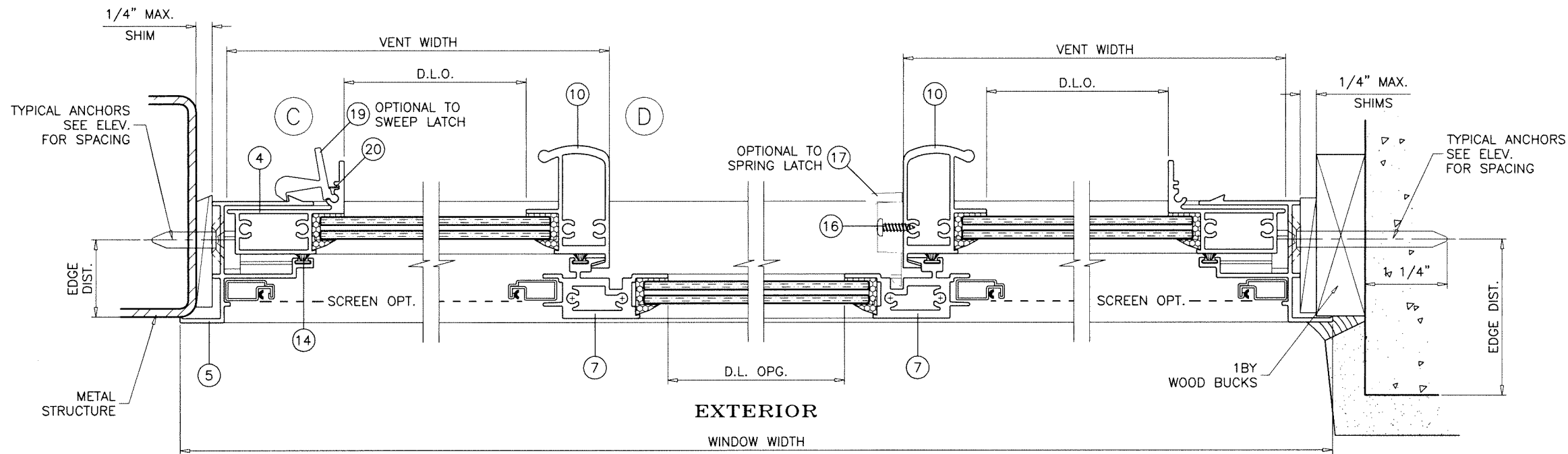
drawing no.  
**W16-58**  
 sheet 3 of 6



**EXTERIOR**

WINDOW WIDTH

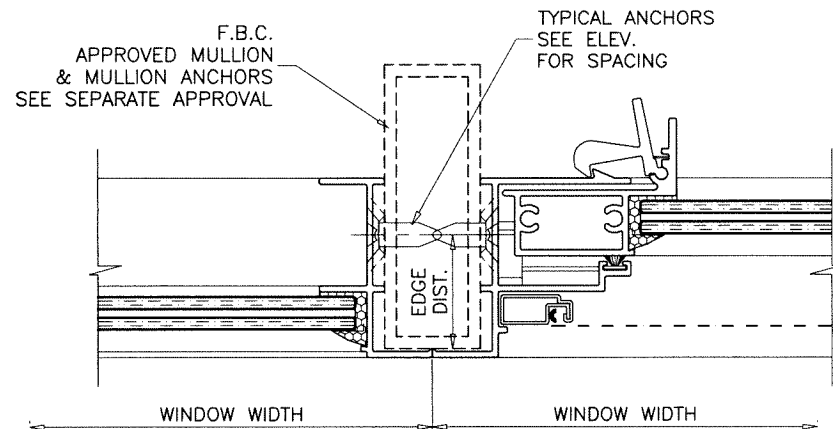
**XO LAYOUT**  
OX OPPOSITE



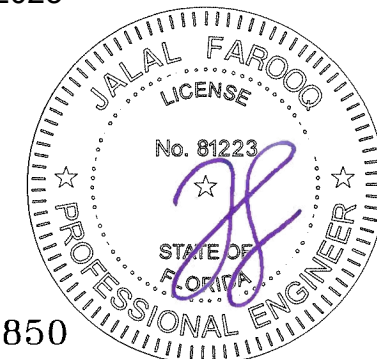
**EXTERIOR**

WINDOW WIDTH

**XOX LAYOUT**



Sealed: 7/25/2023

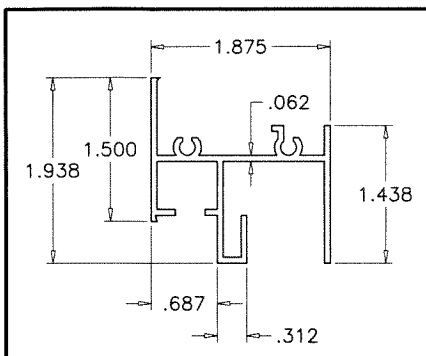


FL #21850

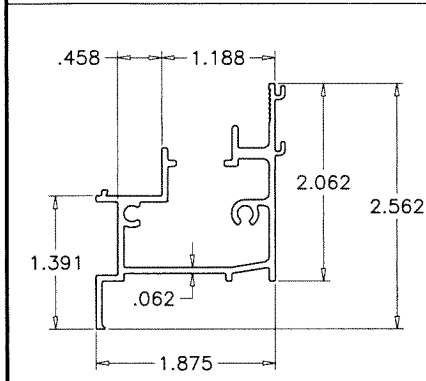
**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
 MIAMI, FLORIDA 33173  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL W16-58AWP

SERIES 6900 ALUM HORIZONTAL SLIDING WDW. (L.M.I.)  
**Assura Windows & Doors, LLC.**  
 1543 N. Powerline Road  
 Pompano Beach, FL. 33069  
 Tel. (954) 781-4430 www.assurawindows.com

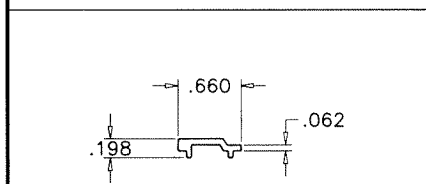
revisions:	no	date	by	description
date:	07-28-16	scale:	1/2" = 1"	
dr. by:	TARIQ	chk. by:		
drawing no.	W16-58			
sheet	4 of 6			



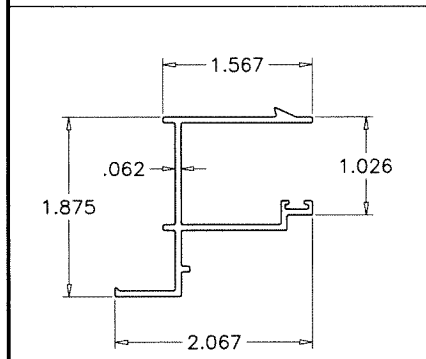
1 FRAME HEAD



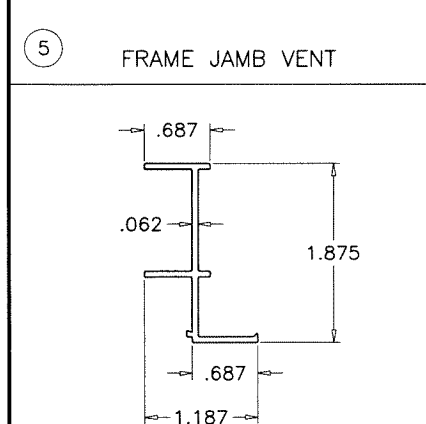
2 FRAME SILL



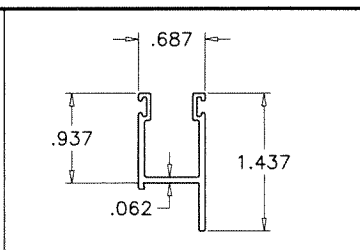
3 SILL INSERT



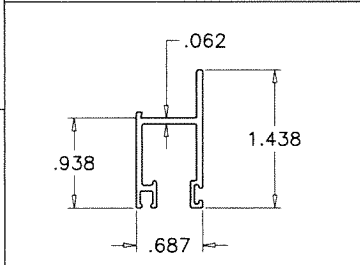
5 FRAME JAMB VENT



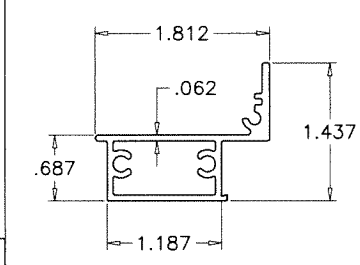
6 FRAME JAMB FIXED



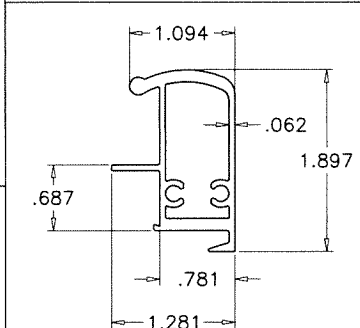
8 VENT TOP RAIL



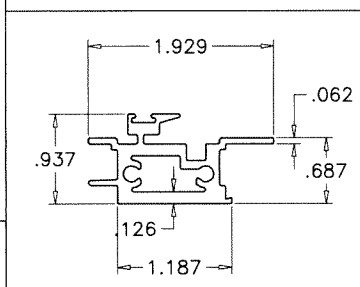
9 VENT BOTTOM RAIL



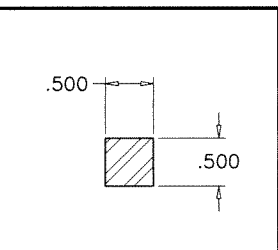
4 JAMB STILE



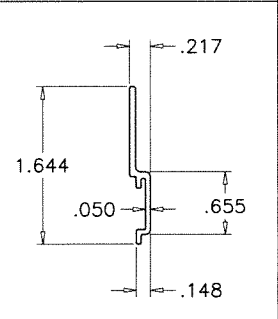
10 MEETING STILE



7 FIXED MTG. STILE



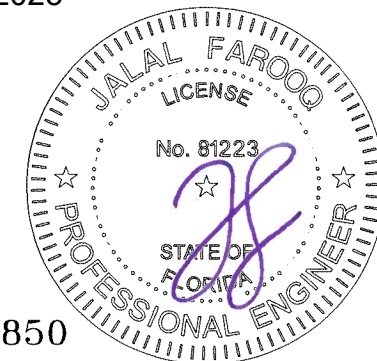
21 REINF. BAR



23 SILL RISER

ITEM #	PART No.	QUANTITY	DESCRIPTION	MATERIAL	MANUF./SUPPLIER/REMARKS
1	YE-5030	1	FRAME HEAD	6063-T6	-
2	YE-5039	1	FRAME SILL	6063-T6	-
3	YE-5038	1	FRAME SILL INSERT	6063-T6	-
4	YE-6902	AS REQ'D.	VENT STILE	6063-T6	-
5	YE-6901	AS REQ'D.	FRAME JAMB (VENT SIDE)	6063-T6	-
6	YE-5031	AS REQ'D.	FRAME JAMB (FIXED SIDE)	6063-T6	-
7	YE-5037	AS REQ'D.	FRAME MEETING RAIL	6063-T6	-
8	YE-6904	AS REQ'D.	VENT TOP RAIL	6063-T6	-
9	YE-6903	AS REQ'D.	VENT BOTTOM RAIL	6063-T6	-
10	YE-6905	AS REQ'D.	VENT INTERLOCK STILE	6063-T6	-
11	-	2/SASH	ROLLER ASSY. SPACER (ACCEPTS 2 ROLLERS EACH)	PLASTIC	-
12	YH-4004	AS REQ'D.	ULTRAFAB .187" x .250" FIN SEAL WEATHERSTRIP	-	TOP/BOTTOM RAIL (INTERIOR)
13	YH-6006	AS REQ'D.	ULTRAFAB .115" x .500" FIN SEAL WEATHERSTRIP	-	BOTTOM RAIL (EXTERIOR)
14	YH-6007	AS REQ'D.	ULTRAFAB .229" x .260" FIN SEAL WEATHERSTRIP	-	MEETING RAIL/FRAME JAMB
15	YF-1	AS REQ'D.	ASSEMBLY SCREW (#10 x 3/4" PH. SMS.)	CAD PLATED	-
15A	YF-79	AS REQ'D.	ASSEMBLY SCREW (#10 x 1-1/2" PH. SMS.)	CAD PLATED	MTG. RAIL BOT. ONLY
16	YF-14	2/LOCK	SWEEP LOCK SCREW (#8 x 5/8" OH. SMS.)	CAD PLATED	-
17	YH-6016	1/ SASH	SWEEP LOCK	CAST (ZAMAK)	AT MIDSPAN OF SASH
18	YH-6001/ASSY	2/SASH	ROLLER ASSEMBLY (HOUSING, WHEEL & AXEL)	-	(YH-6001, 6002 & 6003)
19	YH-504	2/ SASH	LATCH LOCK	PLASTIC	AT 11-1/2" FROM TOP & BOTTOM
20	YH-512	1/LATCH	LATCH LOCK SPRING	STEEL	-
21	-	2/VENT	1/2" x 1/2" x FULL LENGHT REINFORCEMENT BAR	STEEL	A-36 COLD FINISHED
22	YH-1610	2	WEEEP HOLE COVER	RIGID PLASTIC	INJECTION MOLDED
23	-	1	SILL RISER	6063-T6	-
24	-	AS REQD.	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A

Sealed: 7/25/2023



FL #21850

**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  
 COMP-ANL W16-58AWP

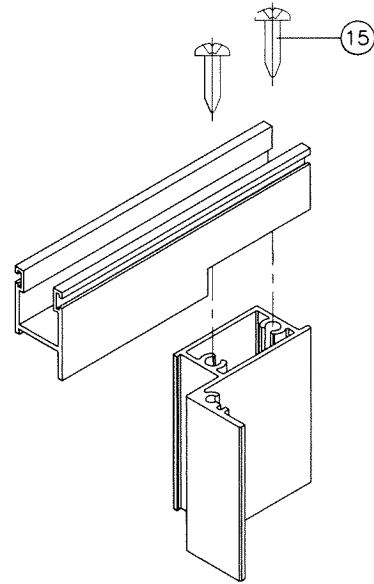
SERIES 6900 ALUM HORIZONTAL SLIDING WDW. (L.M.I.)  
**Assura Windows & Doors, LLC.**  
 1543 N. Powerline Road  
 Pompano Beach, FL. 33069  
 Tel. (954) 781-4430 www.assurawindows.com

no	date	by	description

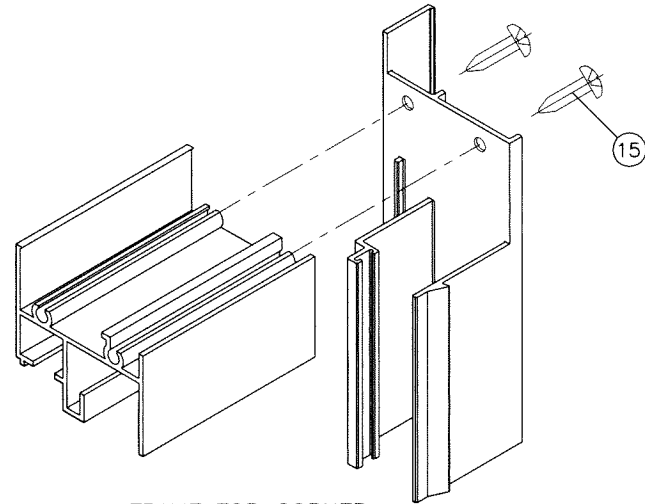
date: 07-28-16	scale: 1/2" = 1"
dr. by: TARIQ	chk. by:

drawing no.  
**W16-58**  
 sheet 5 of 6

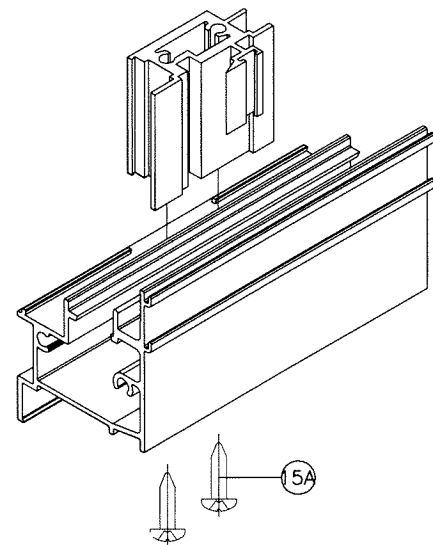




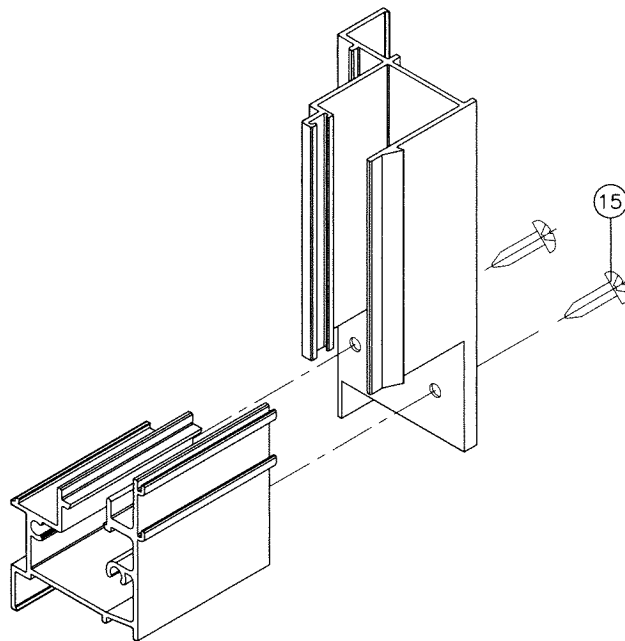
VENT TOP/BOTTOM CORNERS



FRAME TOP CORNER

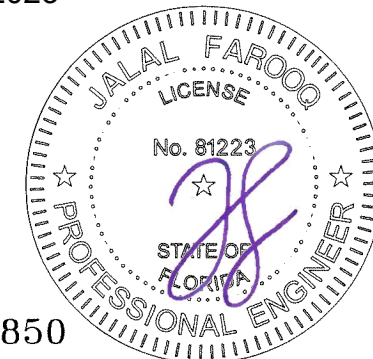


FIXED MTG. RAIL CORNER



FRAME BOTTOM CORNER

Sealed: 7/25/2023



FL #21850

**afc**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
 MIAMI, FLORIDA 33173  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL \ W16-58AWP

SERIES 6900 ALUM HORIZONTAL SLIDING WDW. (L.M.I.)  
**Assura Windows & Doors, LLC.**  
 1543 N. Powerline Road  
 Pompano Beach, FL. 33069  
 Tel. (954) 781-4430 www.assurawindows.com

revisions:	
no	date by description

date: 07-28-16  
 scale: 1/2" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W16-58**  
 sheet 6 of 6