

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.
INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

SERIES 580 ALUMINUM SINGLE HUNG WINDOW

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

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

LOWER DESIGN PRESSURE FROM WINDOW OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH 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.

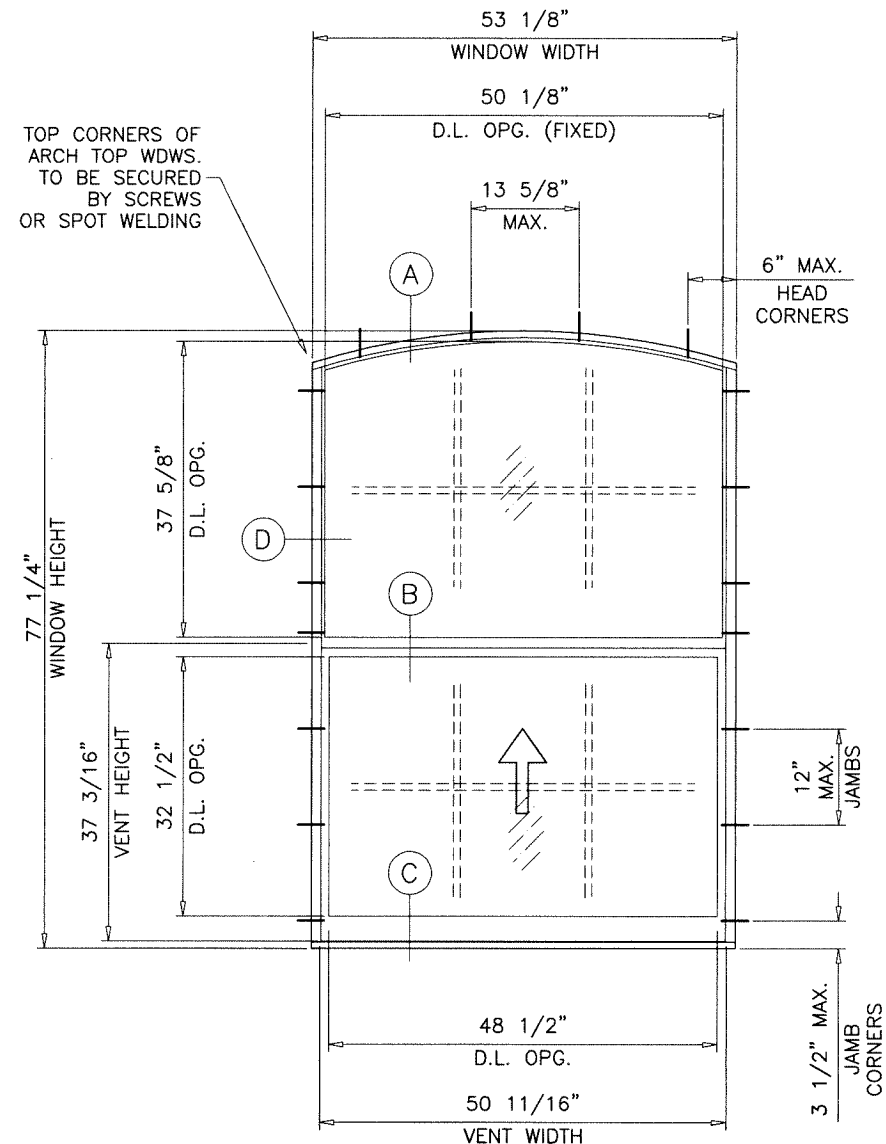
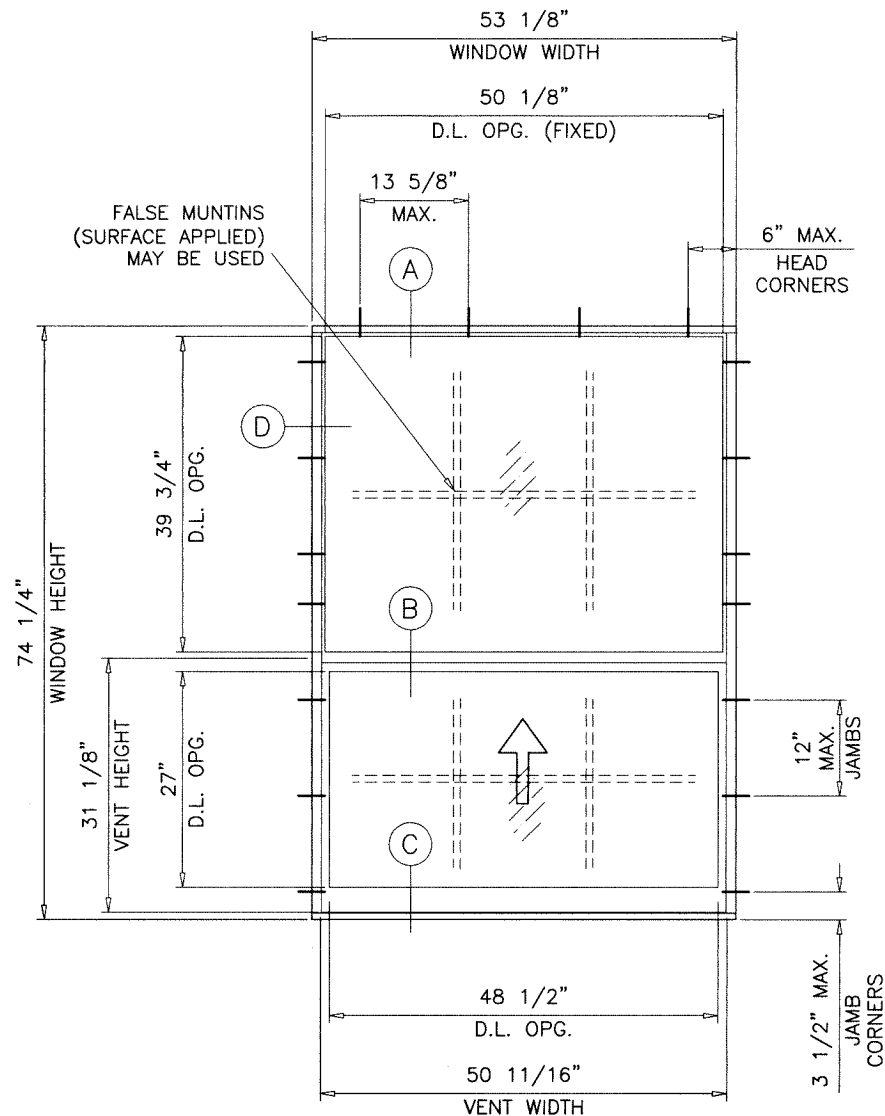
ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 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

TESTED UNITS

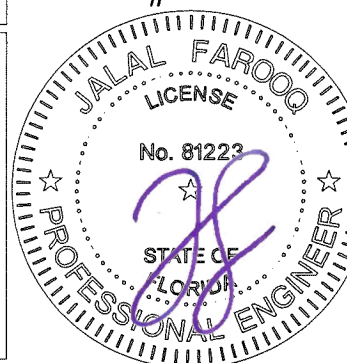
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FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

- 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.

MONOLITHIC GLASS
INSULATING GLASS
NON IMPACT

FL #21857



SERIES 580 ALUM SINGLE HUNG WINDOW (N.I.)

Assura Windows & Doors, LLC.

1543 N. Powerline Road

Pompano Beach, FL. 33069

Tel. (954) 781-4430 www.assurawindows.com

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\W17-19AWP

no	date	by	description
A	10.03.17		UPDATED TO 2017 FBC
B	01.28.21		UPDATED TO 2020 FBC
C	07.14.23		UPDATED TO 2023 FBC
D	09.25.26		UPDATED TO 2026 FBC

date: 02-13-17
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dr. by: TARIQ
chk. by:

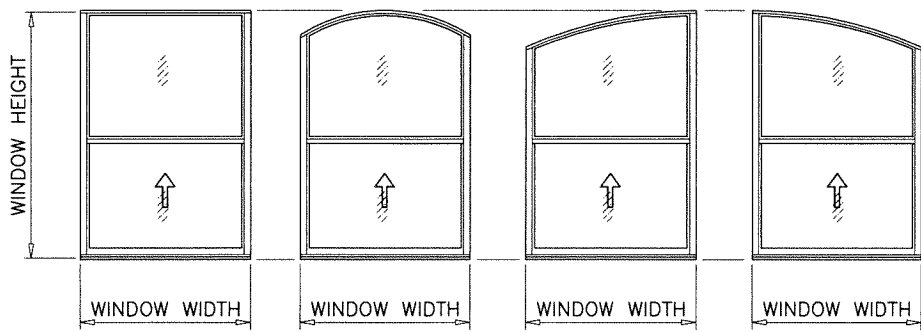
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W17-19

sheet 1 of 5

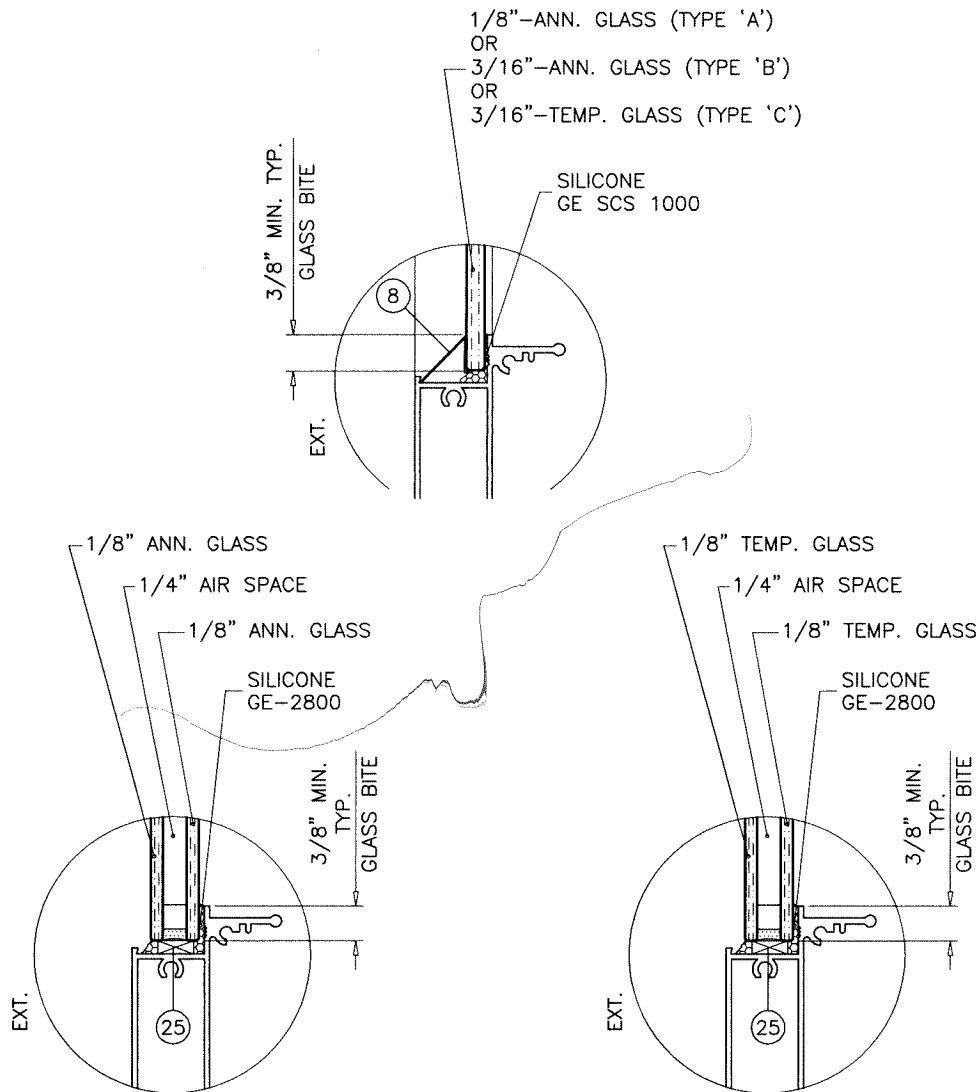
DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	60.0	80.0	60.0	125.0	60.0	210.0
26-1/2"		60.0	80.0	60.0	125.0	60.0	179.7
37"		60.0	80.0	60.0	112.9	60.0	112.9
42"		60.0	79.3	60.0	95.9	60.0	95.9
48"		52.7	52.7	60.0	81.3	60.0	81.3
53-1/8"		38.6	38.6	60.0	71.9	60.0	71.9
19-1/8"	38-3/8"	60.0	80.0	60.0	125.0	60.0	210.0
26-1/2"		60.0	80.0	60.0	125.0	60.0	163.1
37"		60.0	75.6	60.0	116.8	60.0	116.8
42"		56.3	56.3	60.0	102.9	60.0	102.9
48"		37.0	37.0	60.0	90.1	60.0	90.1
53-1/8"		-	-	60.0	81.4	60.0	81.4
19-1/8"	50-5/8"	60.0	80.0	60.0	125.0	60.0	171.3
26-1/2"		60.0	80.0	60.0	123.7	60.0	123.7
37"		60.0	64.6	60.0	88.6	60.0	88.6
42"		-	-	60.0	78.0	60.0	78.0
48"		-	-	60.0	68.3	60.0	68.3
53-1/8"		-	-	60.0	61.7	60.0	61.7
19-1/8"	59"	60.0	80.0	60.0	125.0	60.0	183.8
26-1/2"		60.0	80.0	60.0	125.0	60.0	132.6
37"		47.9	47.9	60.0	95.0	60.0	95.0
42"		-	-	60.0	83.7	60.0	83.7
48"		-	-	60.0	73.2	60.0	73.2
53-1/8"		-	-	60.0	64.0	60.0	66.2
19-1/8"	63"	60.0	80.0	60.0	125.0	60.0	206.5
26-1/2"		60.0	76.7	60.0	125.0	60.0	149.0
37"		47.0	47.0	60.0	97.5	60.0	106.7
42"		-	-	60.0	85.1	60.0	93.1
48"		-	-	60.0	71.9	60.0	75.8
53-1/8"		-	-	60.0	62.7	60.0	65.4
19-1/8"	74-1/4"	60.0	74.6	60.0	125.0	60.0	175.2
26-1/2"		60.0	64.1	60.0	113.4	60.0	126.5
37"		-	-	60.0	82.0	60.0	90.6
42"		-	-	60.0	74.8	60.0	79.8
48"		-	-	60.0	65.5	60.0	69.8
53-1/8"		-	-	58.0	58.0	60.0	60.0
19-1/8"	76"	-	-	60.0	125.0	60.0	199.7
26-1/2"		-	-	60.0	110.2	60.0	144.1
37"		-	-	60.0	80.3	60.0	103.2
42"		-	-	60.0	73.1	60.0	88.1
48"		-	-	60.0	64.5	60.0	69.9

* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



APPROVED CONFIGURATIONS

SHAPES SHOWN ABOVE OR SIMILAR



GLASS TYPE 'E'
1/2" OVERALL INSUL. GLASS

GLASS TYPE 'D'
1/2" OVERALL INSUL. GLASS

GLAZING OPTIONS

1/4" AIR SPACE CONSISTING OF:

EDGE SPACER:

DURASEAL SPACER BY 'QUANEX'
AROUND THE PERIMETER OF THE GLASS.

EDGE SEALANT FOR CAPTURED GLASS (W/ GLAZING BEAD):

SILICONE
DOWSIL 791
GE 2000

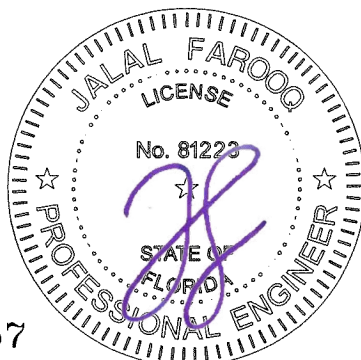
EDGE SEALANT FOR SSG GLASS (W/O GLAZING BEAD):

1/4" HIGH SILICONE MIN.
ULTIMATE TENSILE STRENGTH PER ASTM C1135=150 PSI MIN.

NOTE:

GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 9/30/2026



FL #21857

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPE 'E'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	56.7	210.0	60.0	210.0
26-1/2"		56.7	201.9	60.0	201.9
37"		56.7	144.6	60.0	144.6
42"		56.7	127.4	60.0	127.4
48"		56.7	111.5	60.0	111.5
53-1/8"		56.7	100.7	60.0	100.7
19-1/8"	38-3/8"	56.7	210.0	60.0	210.0
26-1/2"		56.7	182.4	60.0	182.4
37"		56.7	130.6	60.0	130.6
42"		56.7	111.9	60.0	115.1
48"		56.7	94.4	60.0	100.7
53-1/8"		56.7	83.3	60.0	90.9
19-1/8"	50-5/8"	56.7	210.0	60.0	210.0
26-1/2"		56.7	165.0	60.0	172.8
37"		56.7	112.9	60.0	123.2
42"		56.7	93.7	60.0	102.2
48"		56.7	77.8	60.0	84.8
53-1/8"		56.7	67.9	60.0	74.1
19-1/8"	59"	56.7	182.2	60.0	210.0
26-1/2"		56.7	143.8	60.0	177.9
37"		56.7	106.0	60.0	115.6
42"		56.7	86.6	60.0	94.4
48"		56.7	70.9	60.0	77.4
53-1/8"		56.7	61.5	60.0	67.1
19-1/8"	63"	56.7	163.4	60.0	210.0
26-1/2"		56.7	134.8	60.0	166.6
37"		56.7	102.1	60.0	113.4
42"		56.7	84.2	60.0	91.8
48"		56.7	68.5	60.0	74.7
53-1/8"		56.7	59.1	60.0	64.5
19-1/8"	74-1/4"	56.7	111.1	60.0	210.0
26-1/2"		56.7	93.3	60.0	165.0
37"		56.7	79.3	60.0	112.3
42"		56.7	70.3	60.0	89.0
48"		56.7	63.6	60.0	70.6
53-1/8"		55.0	55.0	60.0	60.0
19-1/8"	76"	56.7	107.1	60.0	210.0
26-1/2"		56.7	88.0	60.0	161.2
37"		56.7	76.5	60.0	112.3
42"		56.7	68.4	60.0	89.0
48"		56.7	61.3	60.0	70.4

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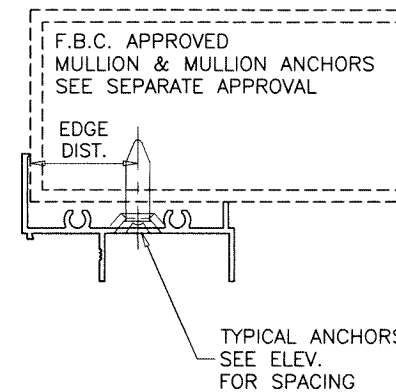
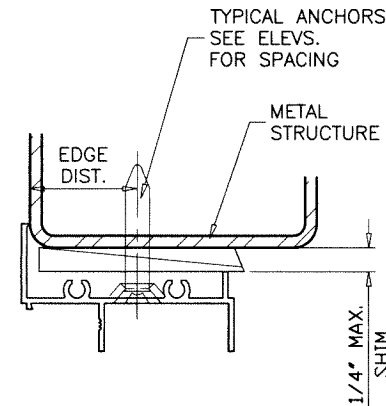
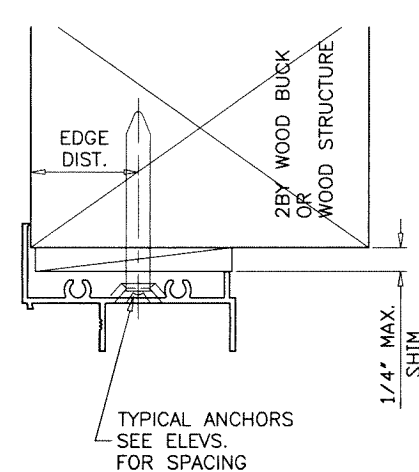
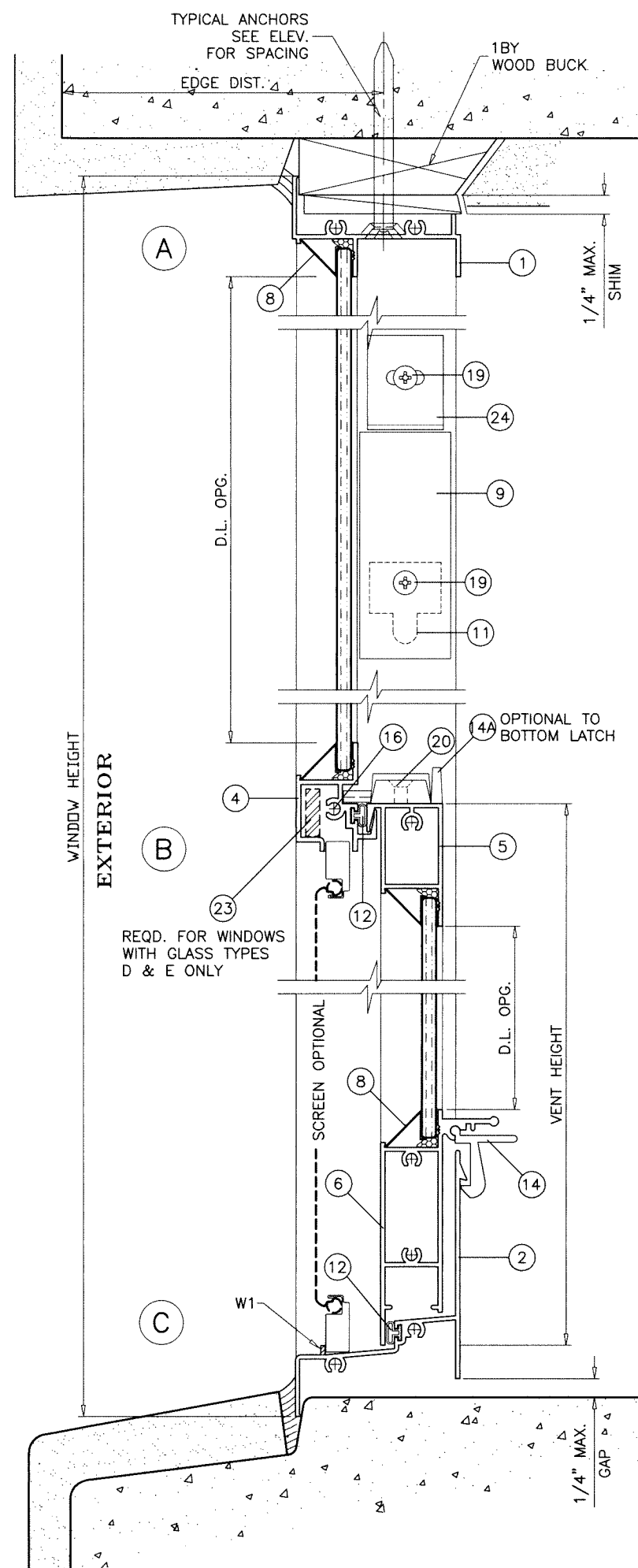
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Assura Windows & Doors, LLC.
1543 N. Powerline Road
Pompano Beach, FL. 33069
Tel. (954) 781-4430
www.assurawindows.com

revisions:
no date by description

date: 02-13-17
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-19
sheet 2 of 5



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' ($F_u=125$ KSI, $F_y=100$ KSI)
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/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

#12 TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 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)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 1/2" MIN.

WOOD AT HEAD 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.

SEALANT:

ALL LOWER FRAME AND VENT CORNERS, AND HEADS OF INSTALLATION SCREWS AT SILL TO BE SEALED WITH ALUMINUM COLORED SEALANT, SCHNEE MOREHEAD 5504 OR EQUIV.

PADS:

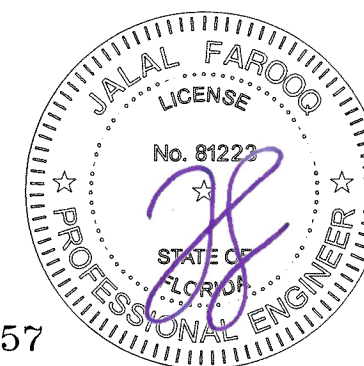
ONE 1/4" X 3/4" ADHESIVE CLOSED CELL FOAM PAD AT EACH END OF FIXED MTG. RAIL.

WEEPHOLES:

W1 = 3/4" WEEP NOTCH AT EACH END

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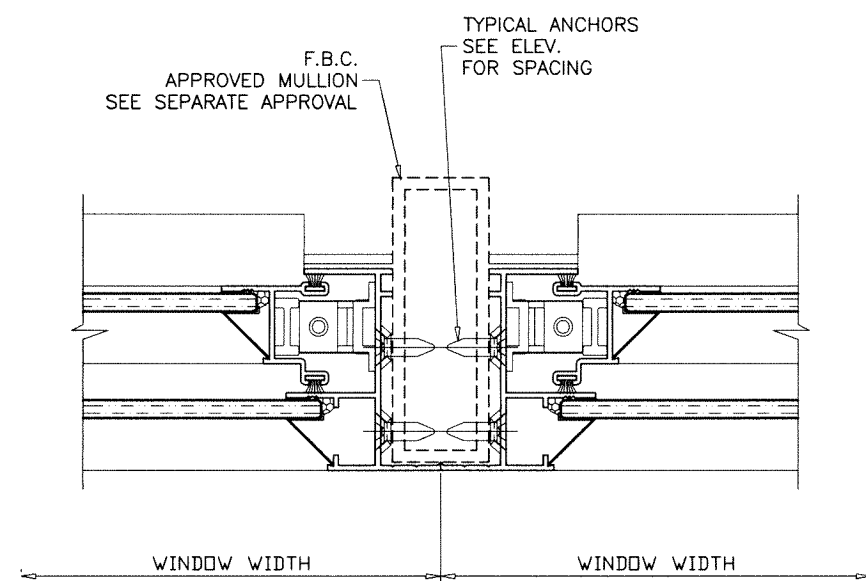
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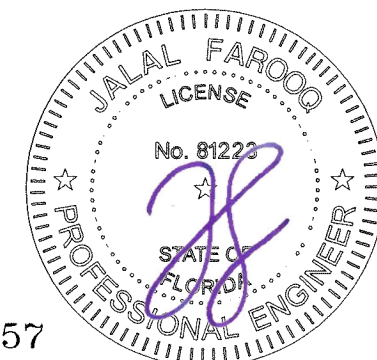
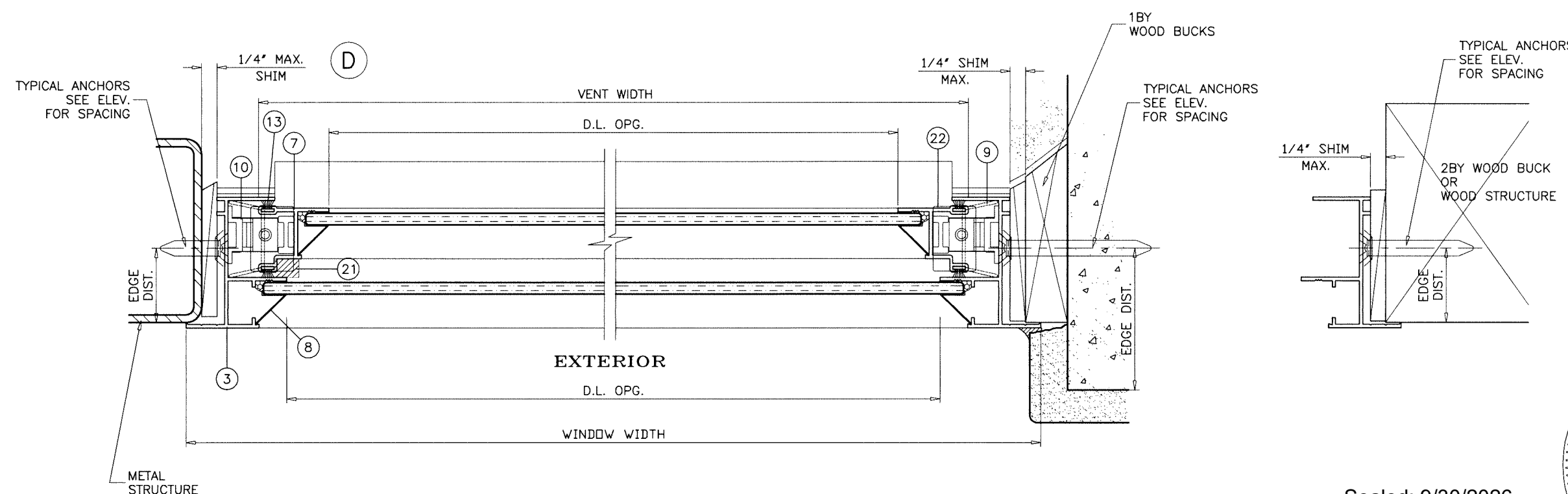
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COMP-ANL W17-19AWP



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	YE-169	1	FRAME HEAD	6063-T6	-
2	YE-167	1	FRAME SILL	6063-T6	-
3	YE-102	2	FRAME JAMB	6063-T6	-
4	YE-152	1	FIXED RAIL	6063-T6	-
5	YE-151	1	VENT TOP RAIL	6063-T6	-
6	YE-168	1	VENT BOTTOM RAIL	6063-T6	-
7	YE-92	2	VENT JAMB	6063-T6	-
8	-	AS REQD.	GLAZING BEAD	ALUMINUM	ROLL FORMED
9	YH-528	2/ VENT	SASH STOP, 3" LONG	RIGID VINYL	-
10	-	2/ VENT	BLOCK & TACKLE BALANCE	-	-
11	YH-505	2/ VENT	BALANCE CLIP	ALUMINUM	-
12	YH-622	AS REQD.	BULB W'STRIPPING	VINYL	SINGLE ROW
13	YH-4004	AS REQD.	FIN SEAL W'STRIPPING .187 X .250	WOOL	ULTRAFAB
14	YH-504	2/ VENT	SPRING LOADED VENT LATCHES	NYLON/CELCON	AT 13" FROM ENDS
14A	YH-515	2/ VENT	SWEEP LOCKS	ZAMAK	AT 11" FROM ENDS
15	YF-1	8	FRAME ASSEMBLY SCREWS (#10 X 3/4")	CRS	PLATED, PH SMS
16	YF-10	2/ VENT	FIXED RAIL SCREWS (#8 X 1")	CRS	CAD PLATED, PH SMS
17	YF-12	6/ VENT	VENT ASSEMBLY SCREWS (#8 X 1-1/4")	CRS	CAD PLATED, PH SMS
19	YF-6	1/ CLIP	#10 X 1/4" PH SMS POINT B	-	-
20	YF-14	2/ LOCK	SWEEP LOCK SCREWS (#8 X 5/8")	-	OH SMS
21	YC-15SP	2/ VENT	SELF ADHESIVE PAD (.375" X .31" X .75")	FOAM	-
22	YH-519	2/ VENT	BALANCE CAM	PLASTIC	-
23	YH-590	1	REINFORCING BAR (REQD. FOR INSUL. GLASS ONLY)	STEEL	HRB93
24	-	2/ VENT	SASH STOP (1" X 1-1/4" X 1/16")	ALUMINUM	ON 74-1/4" HIGH ONLY
25	-	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A



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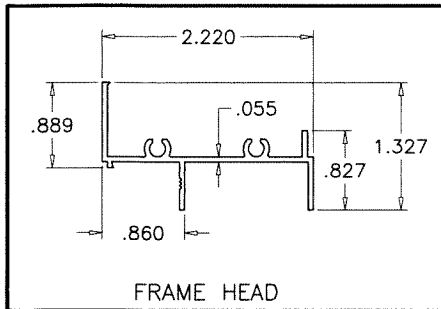
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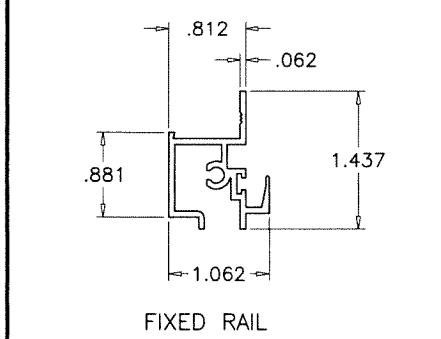
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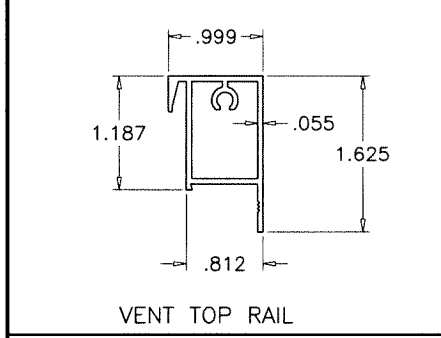
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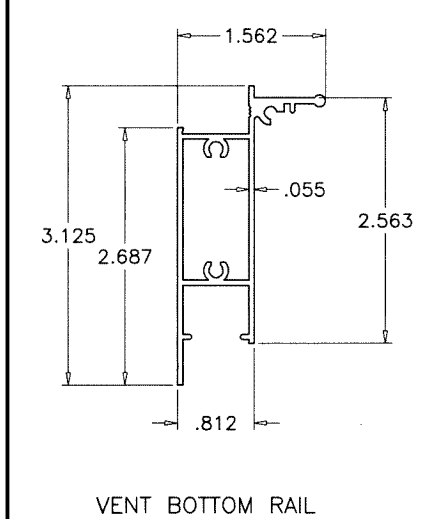
FRAME HEAD



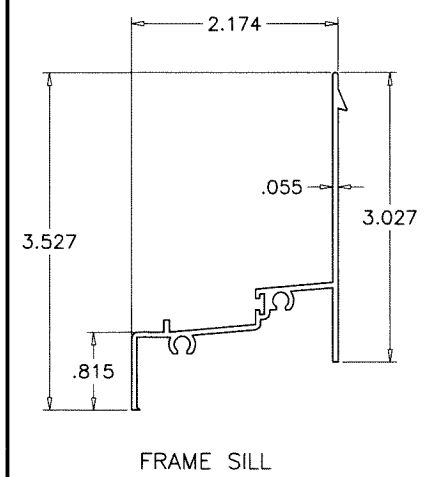
FIXED RAIL



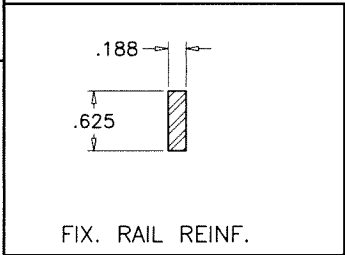
VENT TOP RAIL



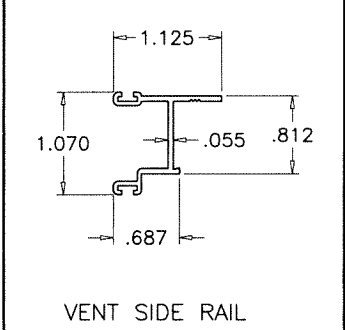
VENT BOTTOM RAIL



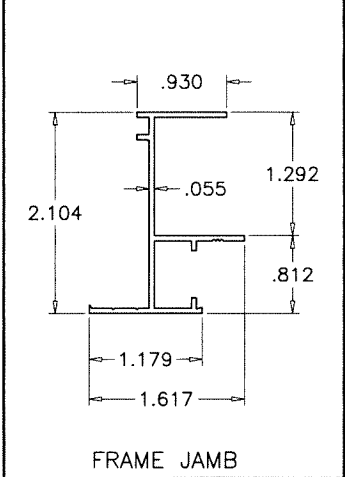
FRAME SILL



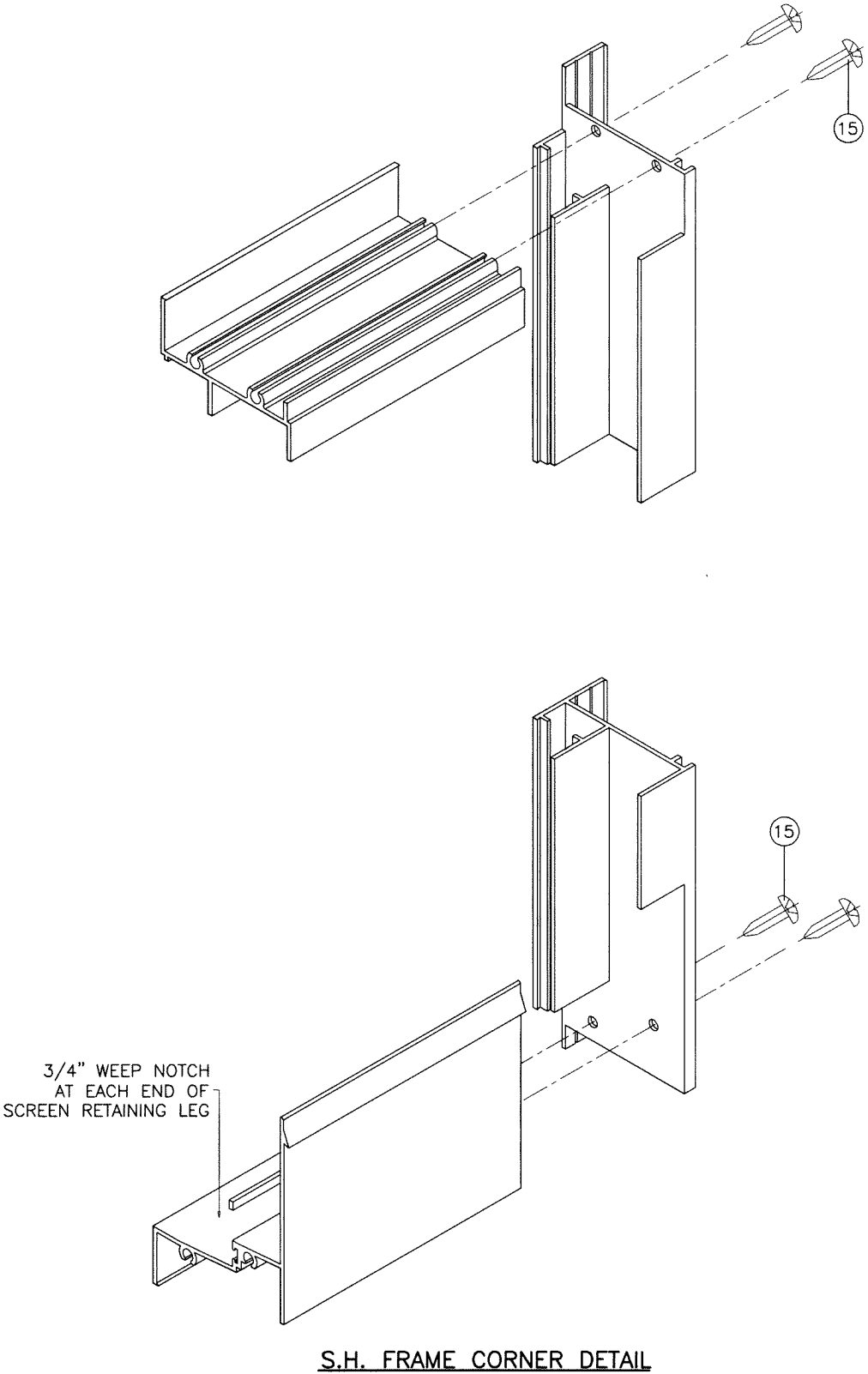
FIX. RAIL REINF.



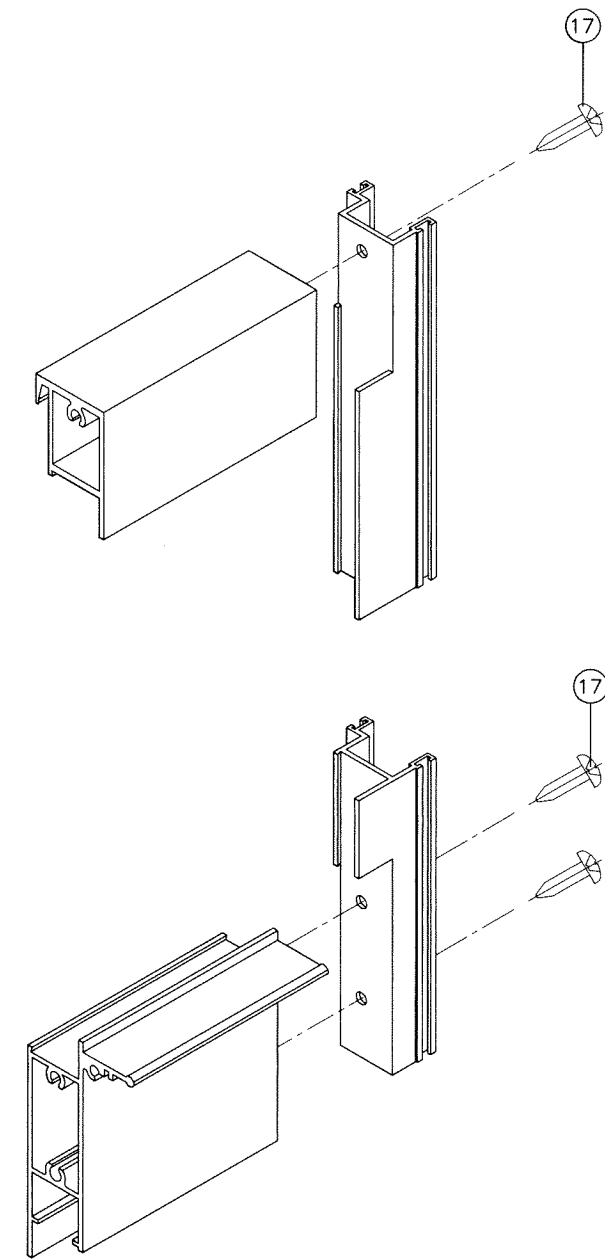
VENT SIDE RAIL



FRAME JAMB



S.H. FRAME CORNER DETAIL



S.H. VENT CORNER DETAIL

Sealed: 9/30/2026

FL #21857



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af c

COMP-ANL W17-19AWP

SERIES 580 ALUM SINGLE HUNG WINDOW (N.I.)

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revisions:	
no	date by description

date: 02-13-17	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
drawing no. W17-19			
sheet 5 of 5			