

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

SERIES-2000
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 SINGLE HUNG WITH OTHER
WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING
F.B.C. APPROVED MULLIONS IN BETWEEN.

FOR COMBINATIONS OF S.H./S.H. WINDOWS IN MODULES OF TWO
OR MORE WINDOWS USING SUNSHINE CUSTOM MULLION IN BETWEEN
SEE CHART ON SHEET 5.

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.

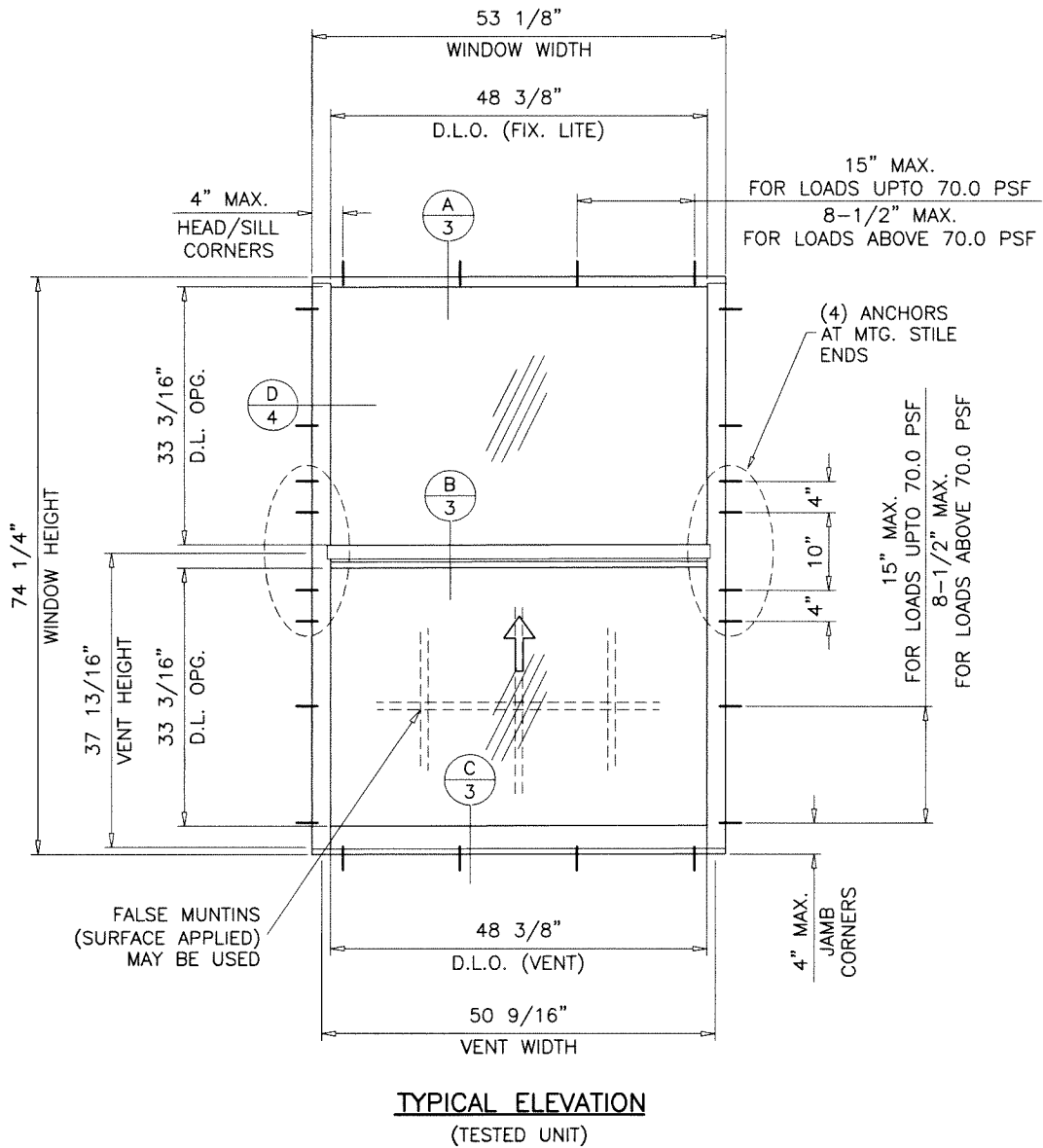
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.



Sealed: 7/26/2023

FL #29244

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.



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

SERIES-2000 ALUM SINGLE HUNG WDW. (L.M.I.)

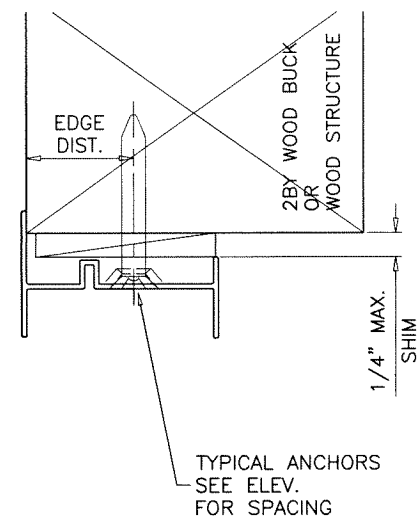
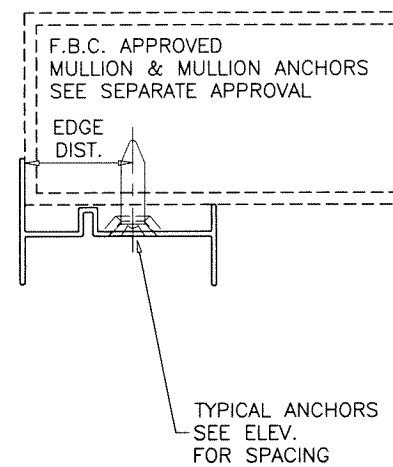
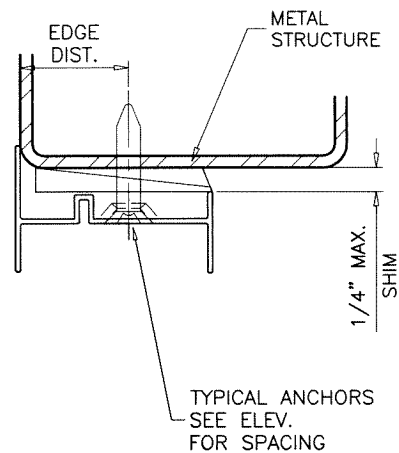
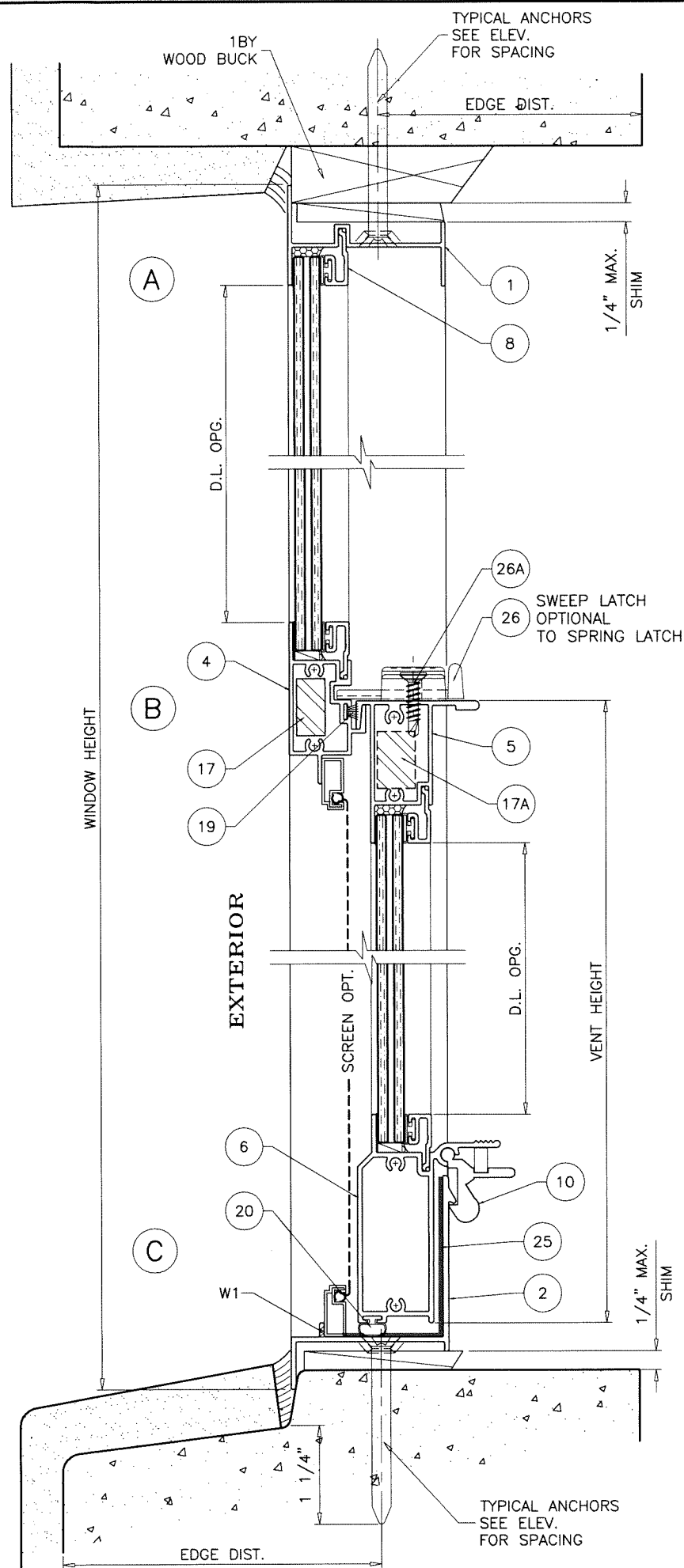
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

no.	date	by	description
A	08.28.20		UPDATED TO 2020 FBC
B	07.21.23		UPDATED TO 2023 FBC

date: 03-11-19
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
19-24F

sheet 1 of 7



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

WEEPHOLES:

W1 = 3/4" LONG WEEP NOTCH AT EACH END.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

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)

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS

OR

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)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

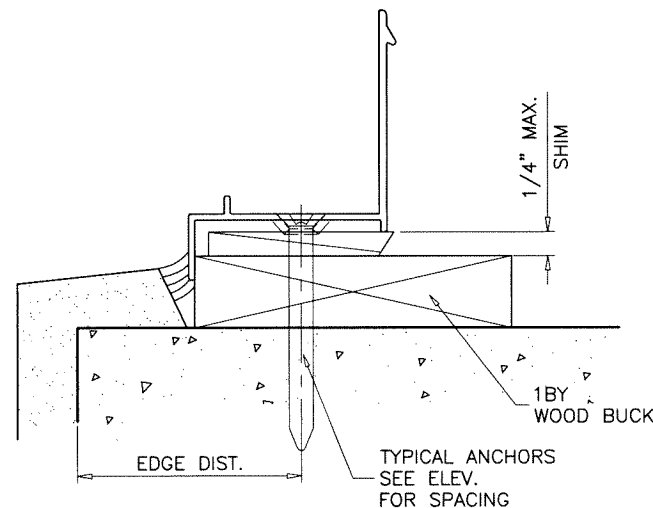
INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.

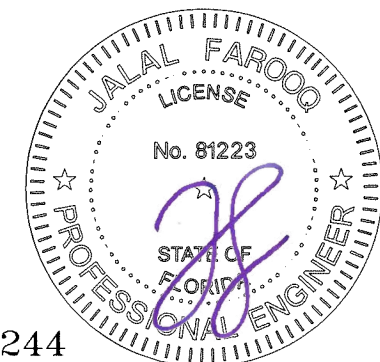
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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AL-FAROOQ CORPORATION

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9360 SUNSET DRIVE, SUITE 220

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COMP-ANI\19-24F-SWM

revisions:
no date by description

date: 03-11-19

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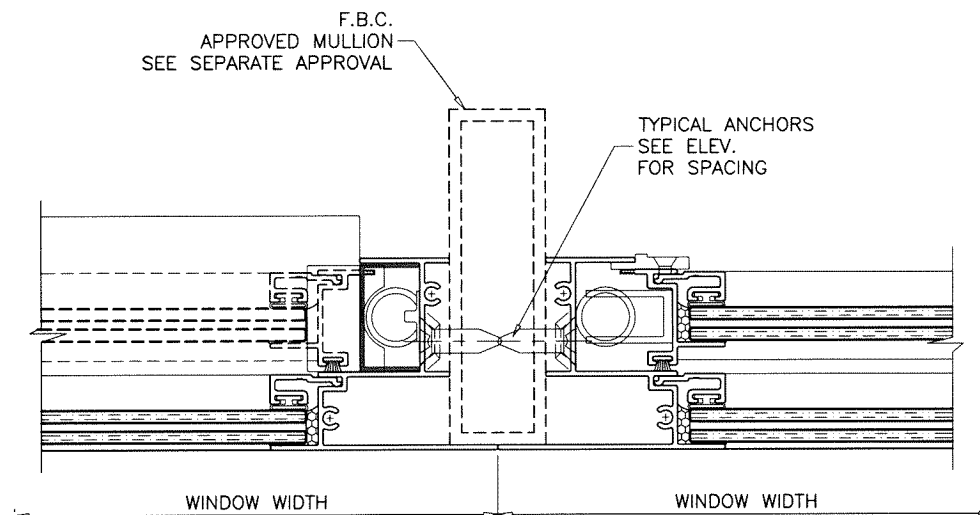
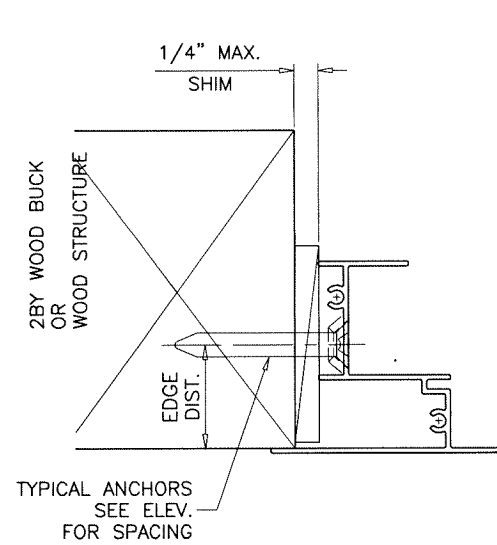
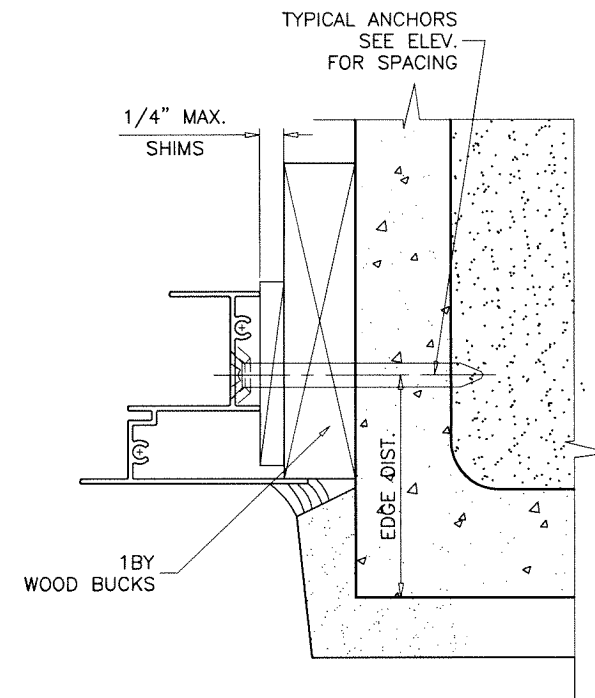
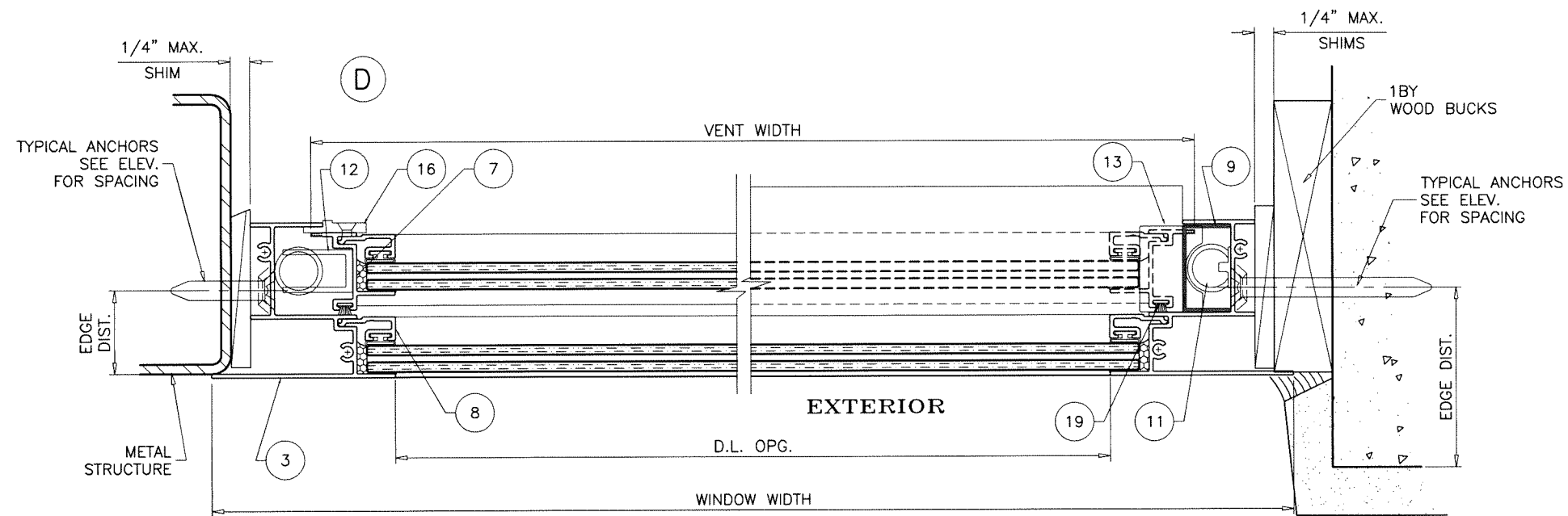
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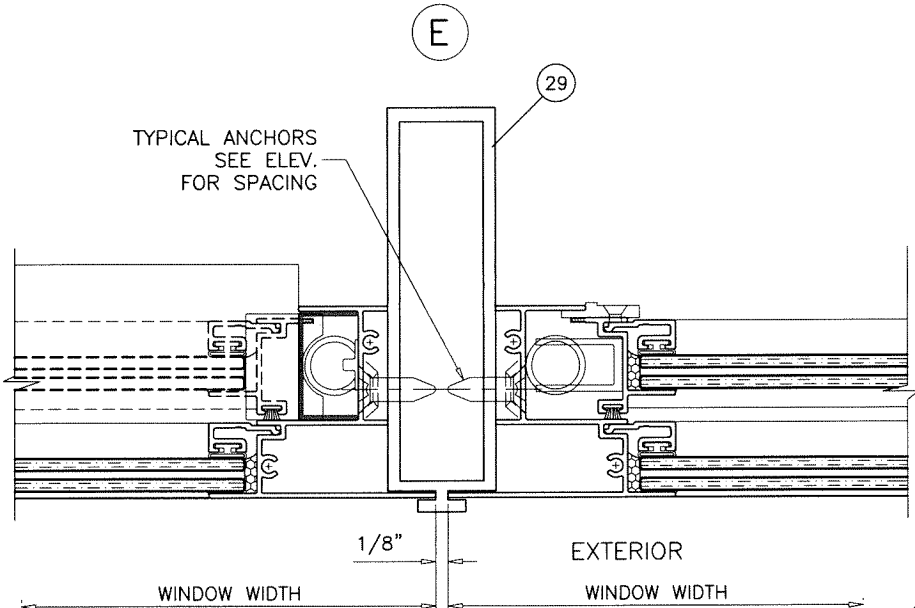
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				sheet 4 of 7

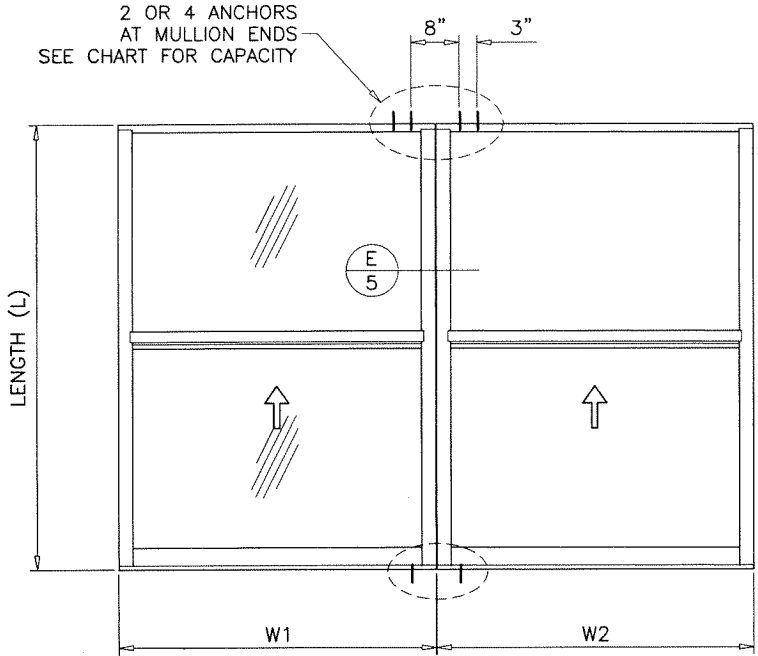
MULLION LOAD CAPACITY - PSF			
WINDOW DIMS.		2 ANCHOR	4 ANCHORS
WIDTH (W)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
19-1/8"	26"	75.0	75.0
26-1/2"		75.0	75.0
37"		75.0	75.0
53-1/8"		75.0	75.0
19-1/8"	38-3/8"	75.0	75.0
26-1/2"		75.0	75.0
37"		75.0	75.0
53-1/8"		75.0	75.0
19-1/8"	50-5/8"	75.0	75.0
26-1/2"		75.0	75.0
37"		69.1	75.0
53-1/8"		64.1	75.0
19-1/8"	63"	75.0	75.0
26-1/2"		62.3	75.0
37"		49.9	75.0
19-1/8"	74-1/4"	66.4	75.0
26-1/2"		50.8	75.0
37"		39.8	75.0
24"	48"	75.0	75.0
30"		75.0	75.0
32"		75.0	75.0
36"		75.0	75.0
42"		72.4	75.0
48"		71.3	75.0
24"	60"	71.3	75.0
30"		60.8	75.0
32"		58.3	75.0
36"		54.3	75.0
42"		50.1	75.0
24"	72"	57.0	75.0
30"		48.0	75.0
32"		45.8	75.0
36"		42.3	75.0

NOTES:

1. USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION.
2. FOR SINGLE HUNG WINDOW CAPACITY SEE SHEET 2.
3. LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.



S.H. TO S.H.



TYPICAL ELEVATIONS

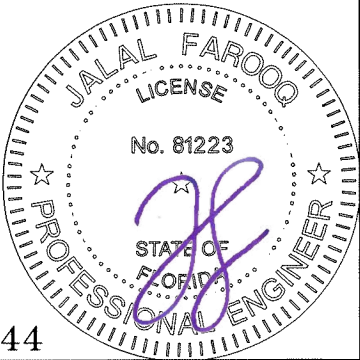
SIDE BY SIDE WINDOWS

SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS

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

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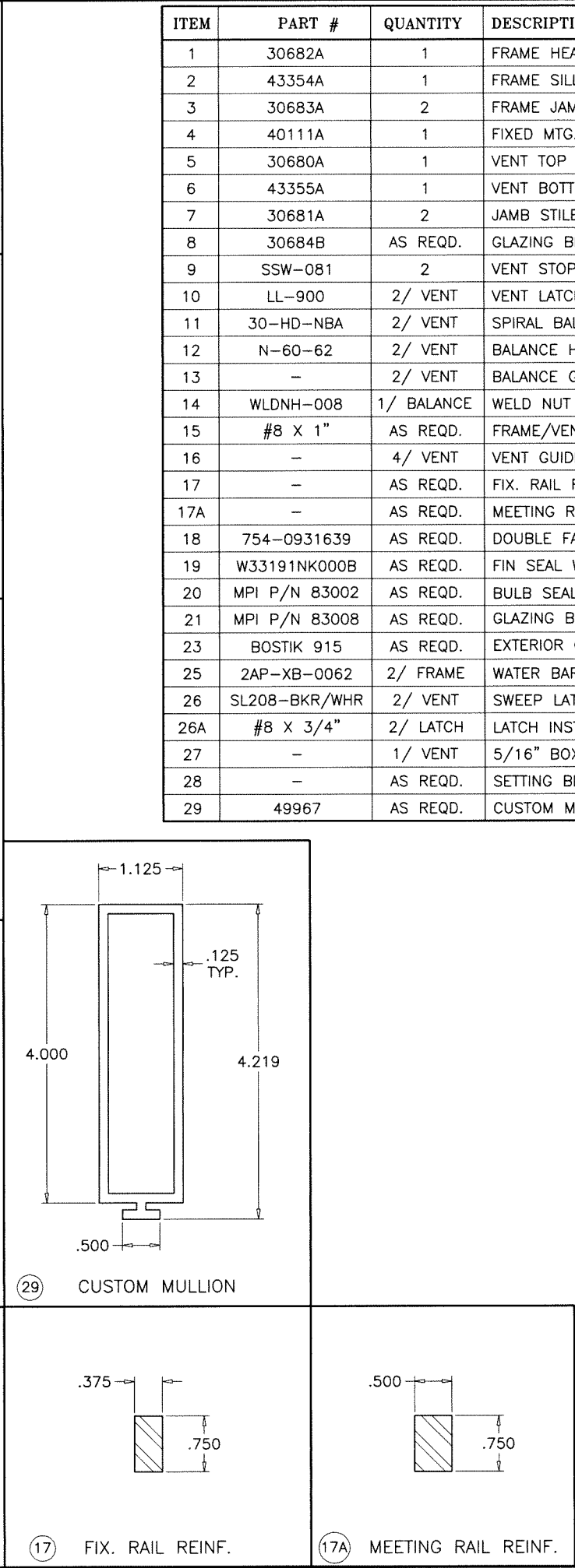
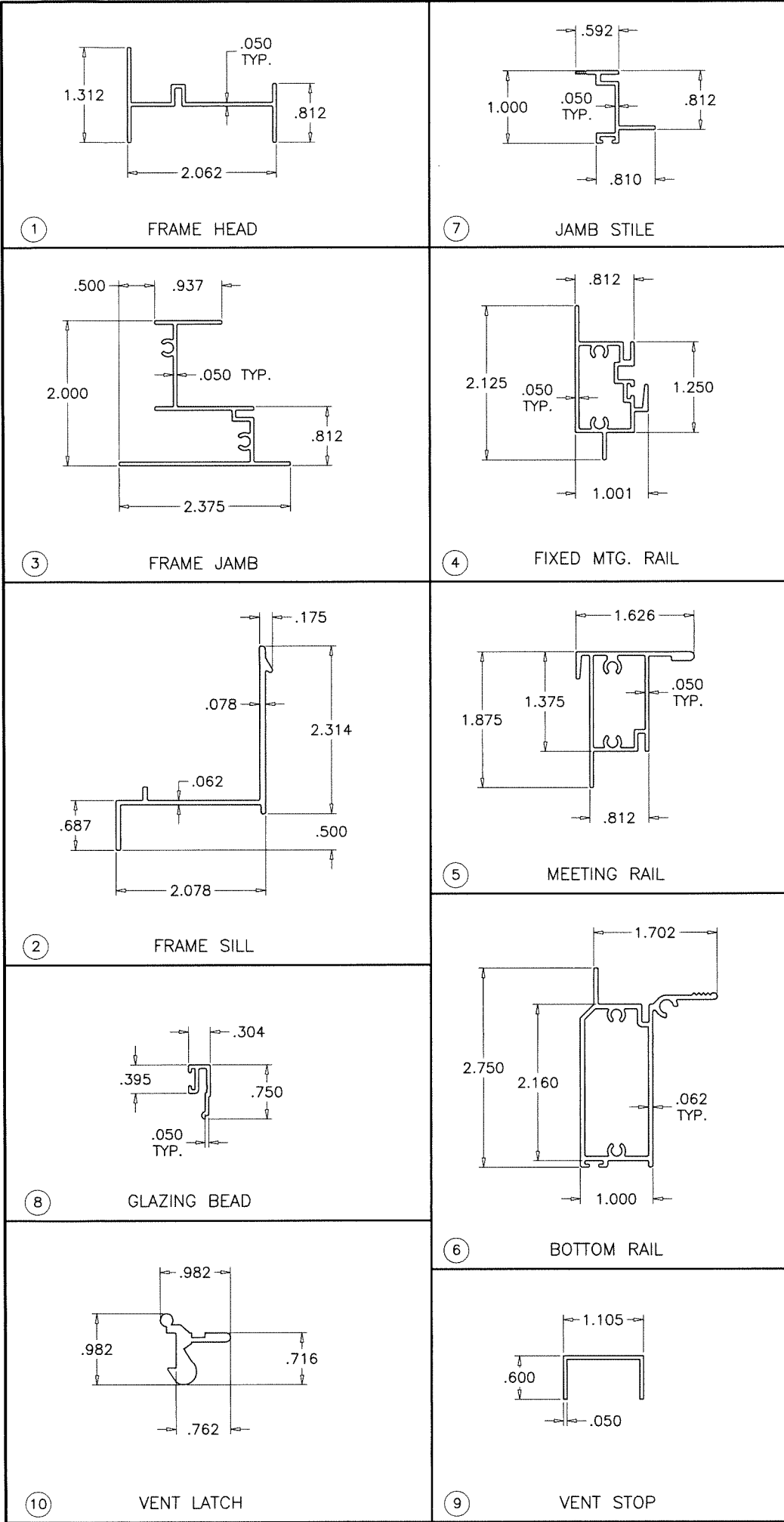
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ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	30682A	1	FRAME HEAD	6063-T6	-
2	43354A	1	FRAME SILL	6063-T6	-
3	30683A	2	FRAME JAMB	6063-T6	-
4	40111A	1	FIXED MTG. RAIL	6063-T6	-
5	30680A	1	VENT TOP RAIL	6063-T6	-
6	43355A	1	VENT BOTTOM RAIL	6063-T6	-
7	30681A	2	JAMB STILE	6063-T6	-
8	30684B	AS REQD.	GLAZING BEAD	6063-T6	-
9	SSW-081	2	VENT STOP	6063-T6	-
10	LL-900	2/ VENT	VENT LATCH WITH S/S SPRING, AT 8" FROM EACH END	6063-T6	-
11	30-HD-NBA	2/ VENT	SPIRAL BALANCE	STEEL/PLASTIC	-
12	N-60-62	2/ VENT	BALANCE HOOK	STEEL	-
13	-	2/ VENT	BALANCE GUIDE	VINYL	-
14	WLDNH-008	1/ BALANCE	WELD NUT	STEEL	-
15	#8 X 1"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	CRS	P.H. SMS
16	-	4/ VENT	VENT GUIDE	VINYL	-
17	-	AS REQD.	FIX. RAIL REINF., FULL LENGTH	STEEL	-
17A	-	AS REQD.	MEETING RAIL REINF., FULL LENGTH	STEEL	-
18	754-0931639	AS REQD.	DOUBLE FACE GLAZING TAPE	PE FOAM	ZIALOC
19	W33191NK000B	AS REQD.	FIN SEAL W'STRIPPING	POLYPROPYLENE	ULTRAFAB
20	MPI P/N 83002	AS REQD.	BULB SEAL W'STRIPPING	SANTOPRENE	MELTPPOINT, DUROMETER 65±5
21	MPI P/N 83008	AS REQD.	GLAZING BEAD BULB	VINYL	MELTPPOINT
23	BOSTIK 915	AS REQD.	EXTERIOR CORNER SEALANT	POLYURETHANE	-
25	2AP-XB-0062	2/ FRAME	WATER BARRIER	FOAM	-
26	SL208-BKR/WHR	2/ VENT	SWEEP LATCH, 12-1/2" FROM EACH END	ZINC	SULLIVAN & ASSOCIATES
26A	#8 X 3/4"	2/ LATCH	LATCH INST. SCREW	ST. STEEL	FH SMS
27	-	1/ VENT	5/16" BOX SCREEN	-	OPTIONAL
28	-	AS REQD.	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
29	49967	AS REQD.	CUSTOM MULLION	6063-T6	-

SEALANT:
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE MOREHEAD SM-5504 JOINT SEALER.



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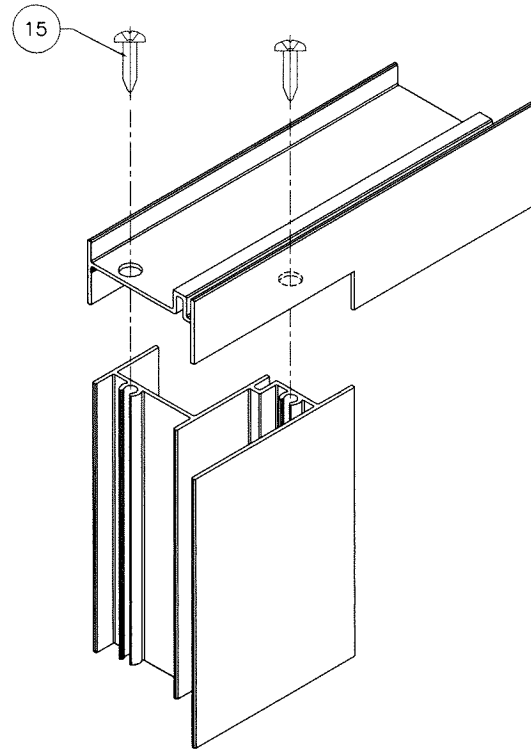
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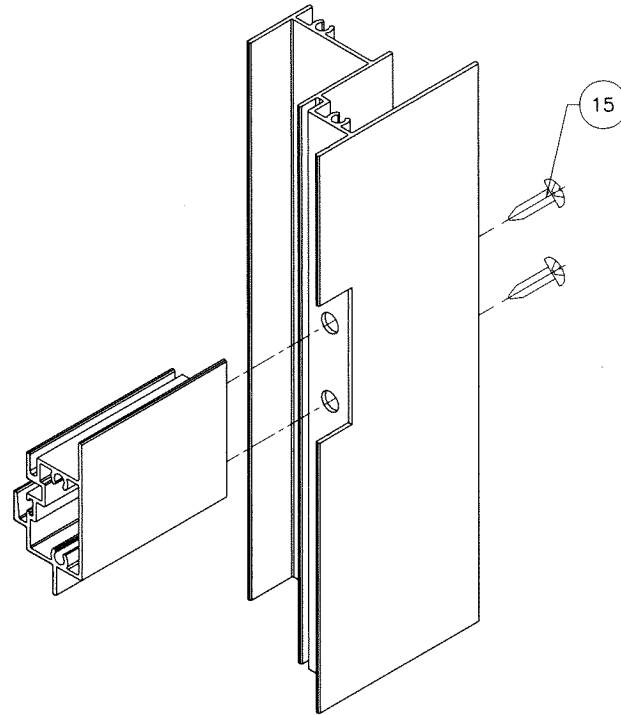
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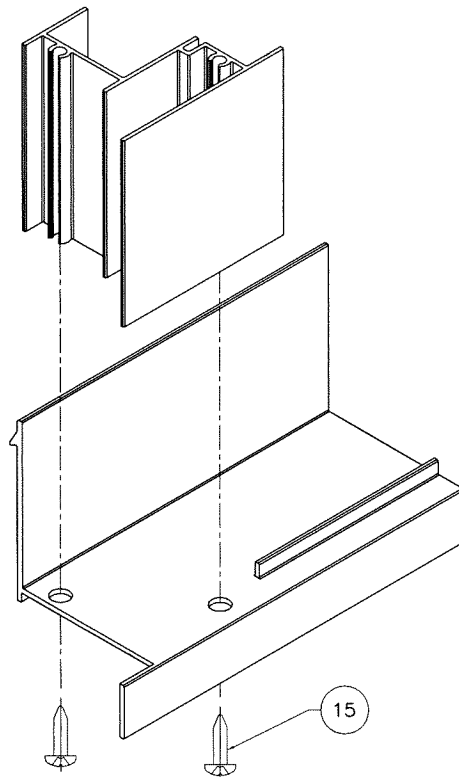
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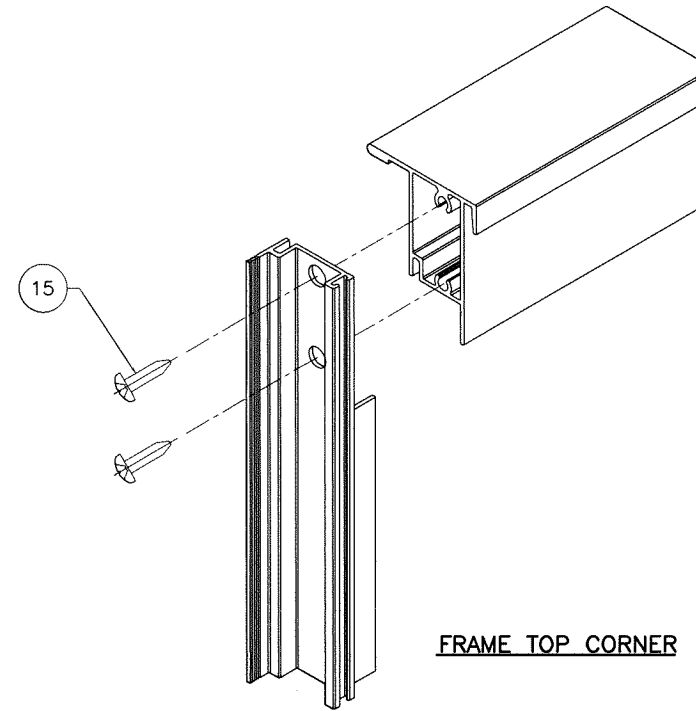
VENT TOP CORNER



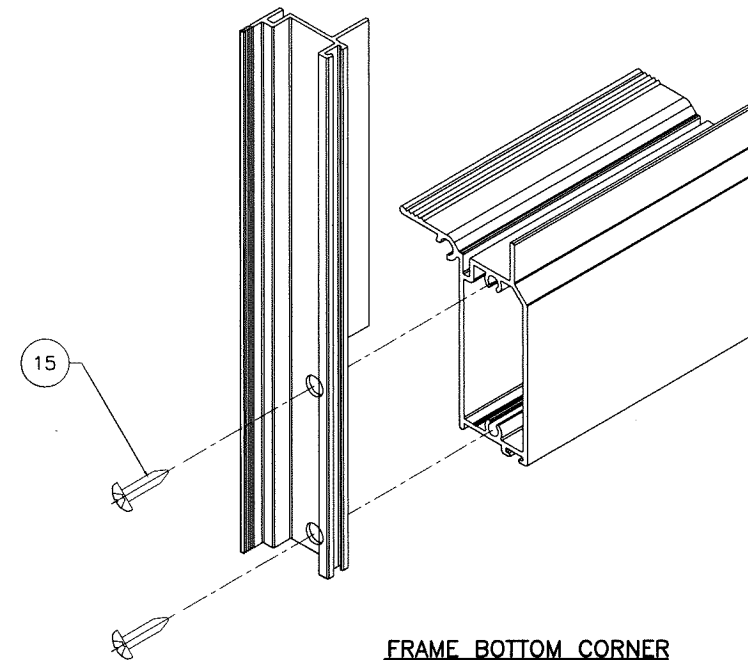
FIXED RAIL CORNER



VENT BOTTOM CORNER



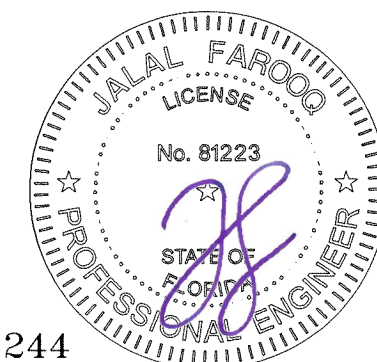
FRAME TOP CORNER



FRAME BOTTOM CORNER

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