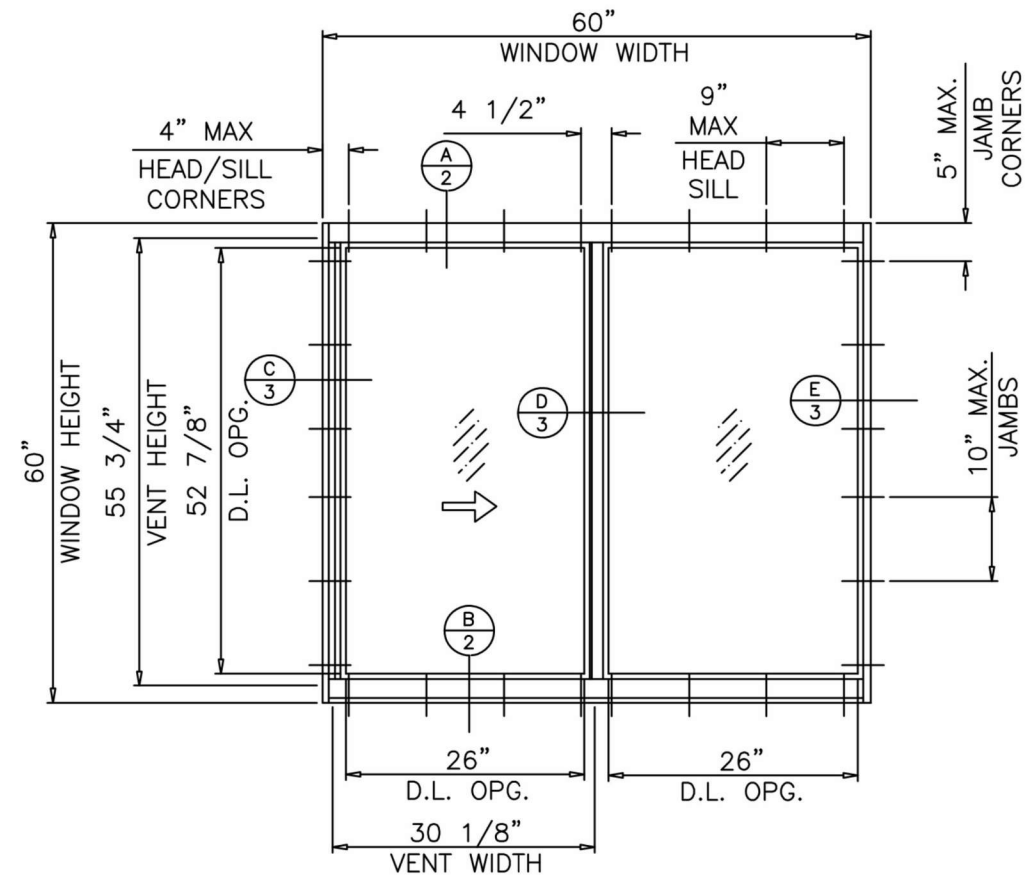
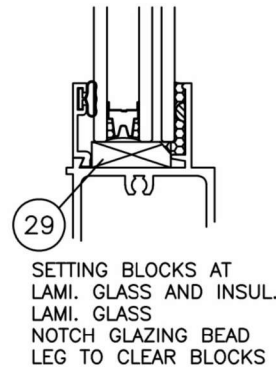
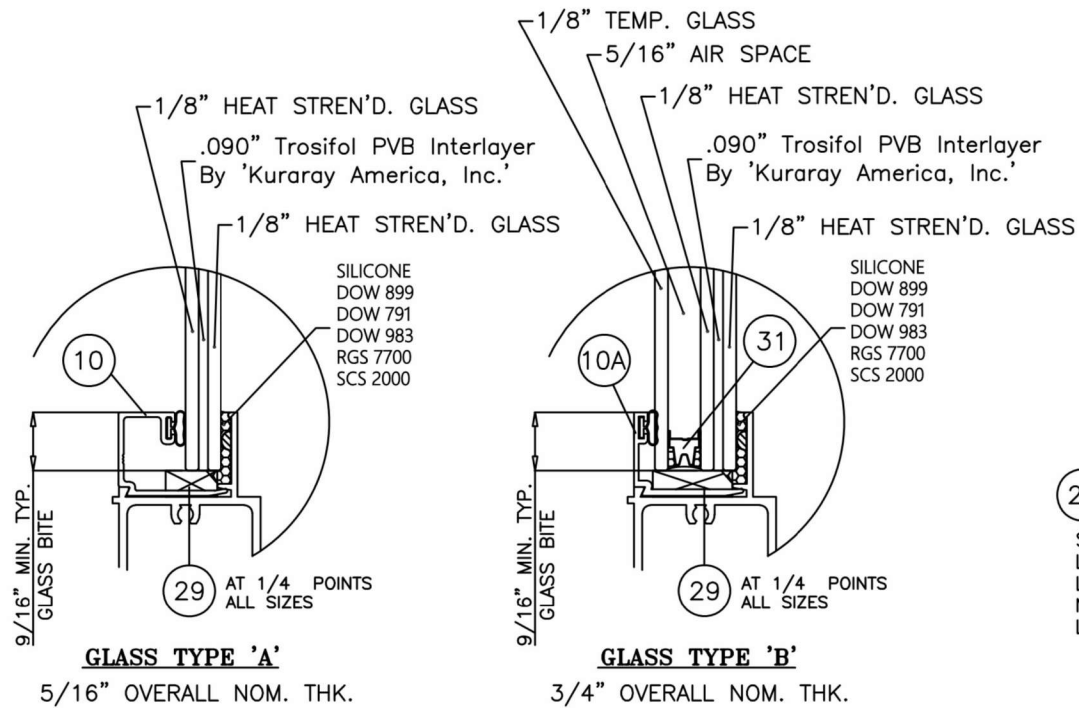




TYPICAL ELEVATION

GLASS TYPES 'A' & 'B'
MAXIMUM DESIGN LOAD RATING = + 67.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) - 119.0 PSF

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.
HVHZ FPA IMPACT RESISTANT SHUTTERS REQUIRED
FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

ECO-GUARD SERIES-200
ALUMINUM HORIZONTAL ROLLING WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE
COMBINATIONS OF H.R./H.R. OR HORIZONTAL ROLLING WITH OTHER
WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING
HVHZ FPA 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 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 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 LOAD SHOWN ARE BASE ON 'ALLOWABLE STRESS DESIGN (ASD)'.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC GUSTS)

FL#40097.3



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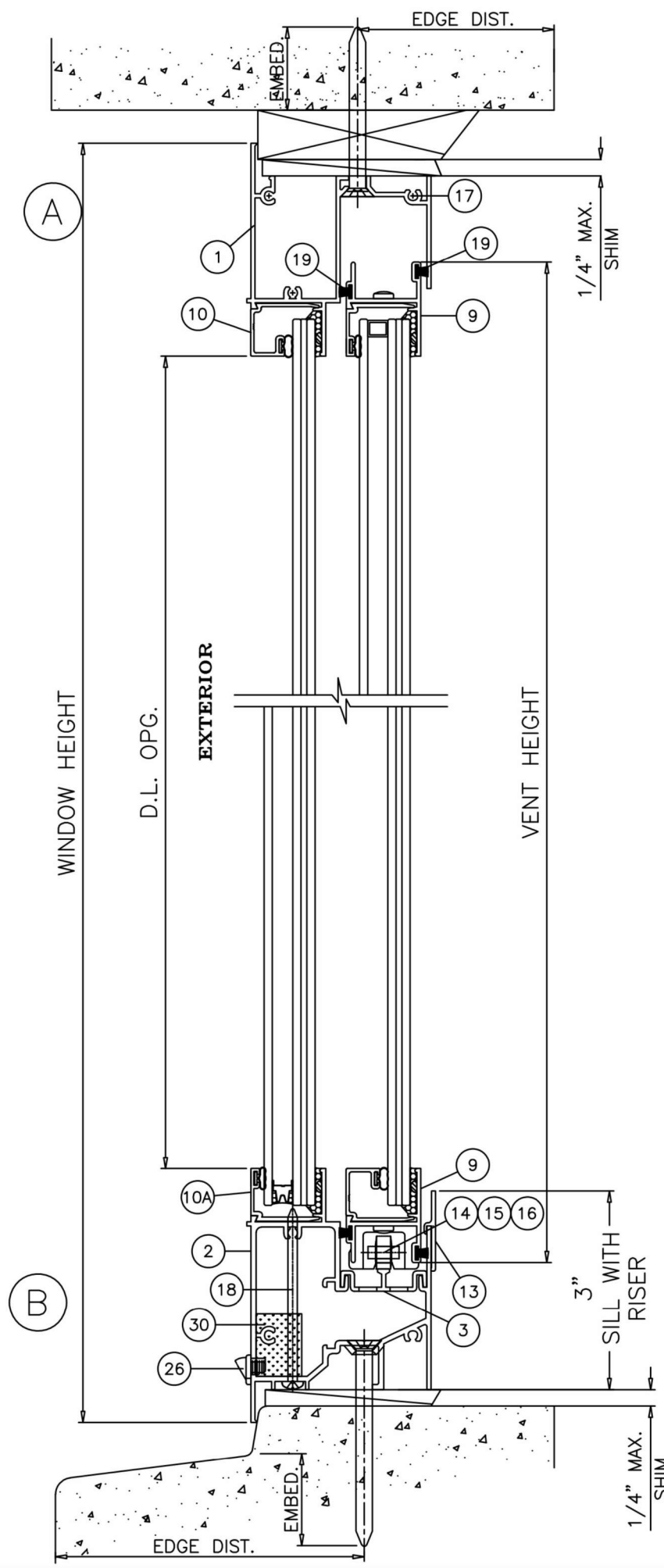
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						DESCRIPTION	BY	DATE

SERIES 200: ECO-GUARD ALUMINUM HORIZONTAL ROLLING WINDOW
(S.M.I.)
SMALL MISSILE IMPACT RATED

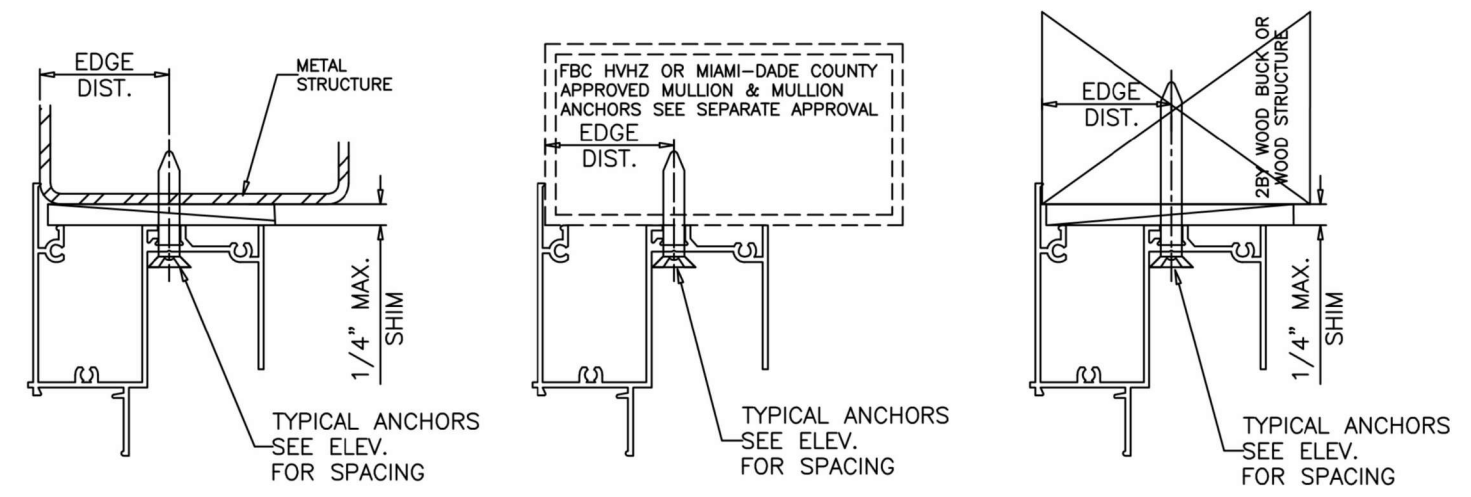
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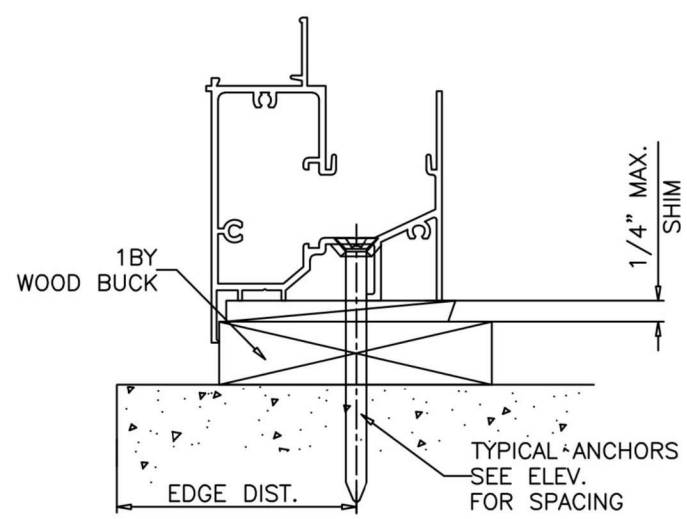
WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
1/4" ITW Tapcon or DeWalt UltraCon+	All	Southern Pine (SG = 0.55)	1"	1-1/2"
	All	Thru 1BY Buck into Concrete (min. 3 ksi)	2-1/2"	1-1/4"
	Jambs	Thru 1BY Buck into Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
	All	Concrete (min. 3ksi)	2-1/2"	1-1/4"
	Jambs	Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
#14 SMS or Self Drilling Screws (Gr. 2)	All	Approved Mullions	3/4"	(3) Threads min. beyond metal thickness
	All	Aluminum 1/8" Thk. Min. (6063-T5)	3/4"	(3) Threads min. beyond metal thickness
	All	Steel 1/8" Thk. Min. (min. 36 ksi)	3/4"	(3) Threads min. beyond metal thickness

- 1. STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED
- 2. ALL ANCHOR HEAD TYPES ARE ACCEPTABLE



WEEPHOLES:

W1 = 1/4" X 1-1/2" WEEPHOLES WITH BAFFLE AT 3-3/4" FROM EACH END AND AT MIDSPAN

W2 = 1/4" X 1" WEEPHOLES AT 10-5/8" FROM EACH END AND AT MIDSPAN

SEALANT:

ALL JOINT AND FRAME CONNECTIONS SEALED WITH JOINT SEALER.

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SERIES 200: ECO-GUARD ALUMINUM HORIZONTAL ROLLING WINDOW (S.M.I.) SMALL MISSILE IMPACT RATED

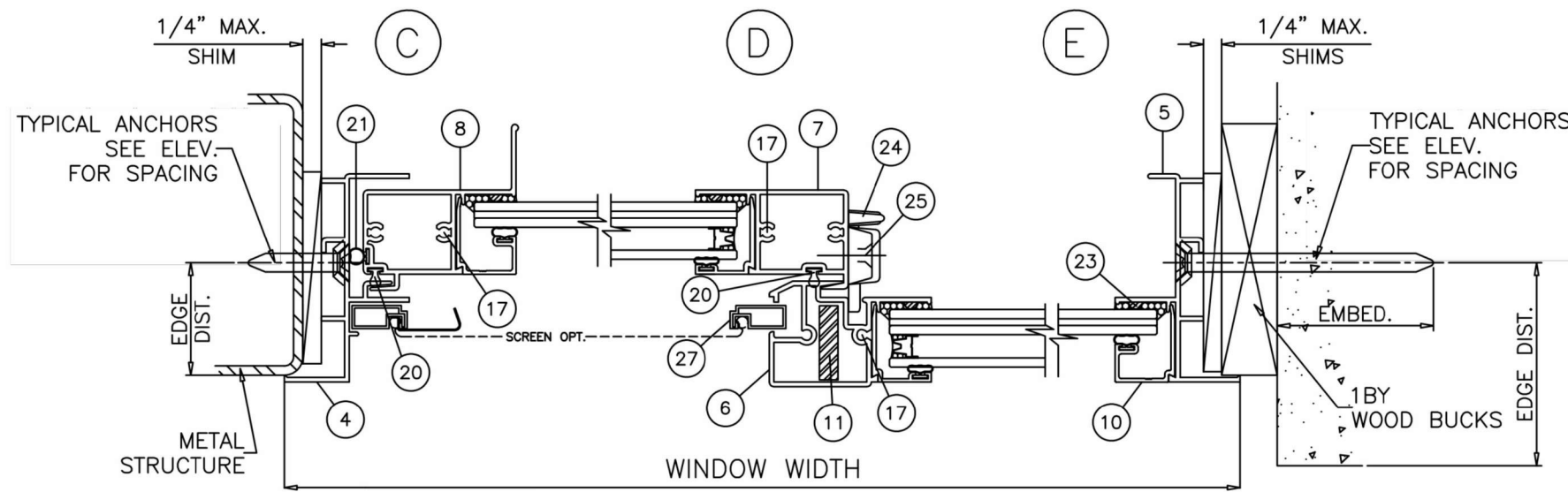


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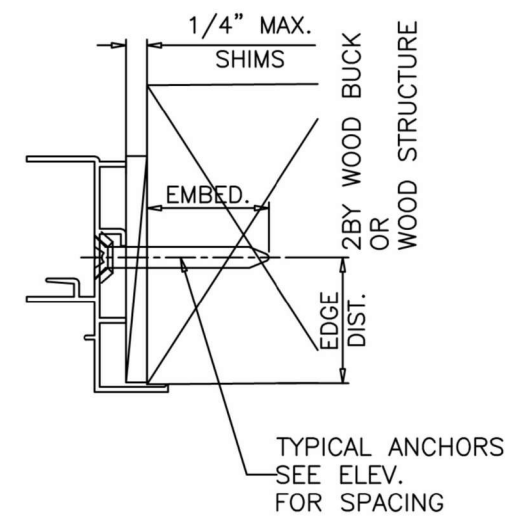
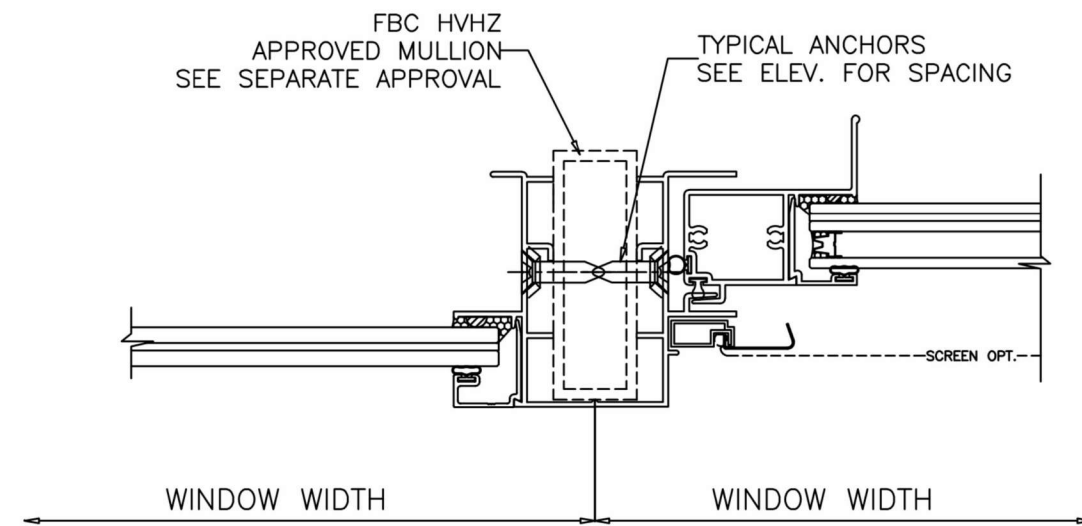


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XO LAYOUT



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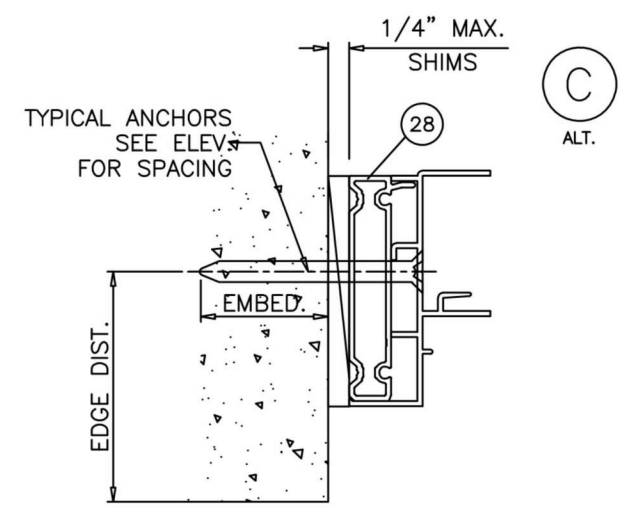
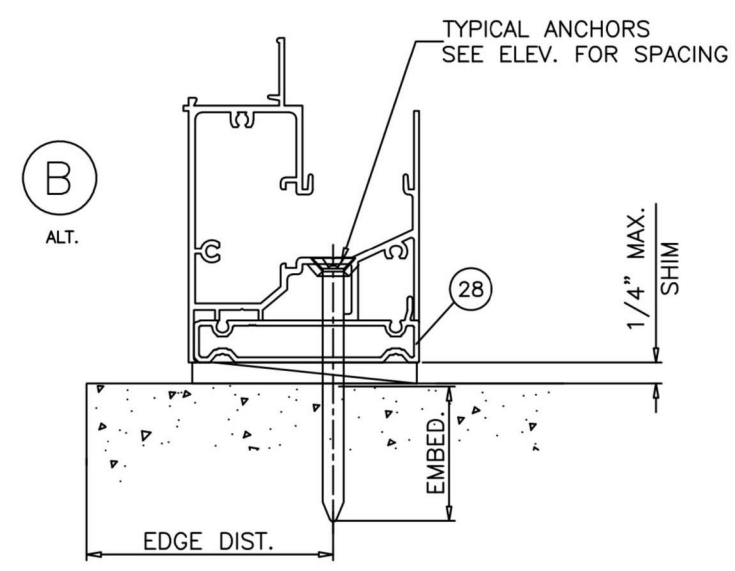
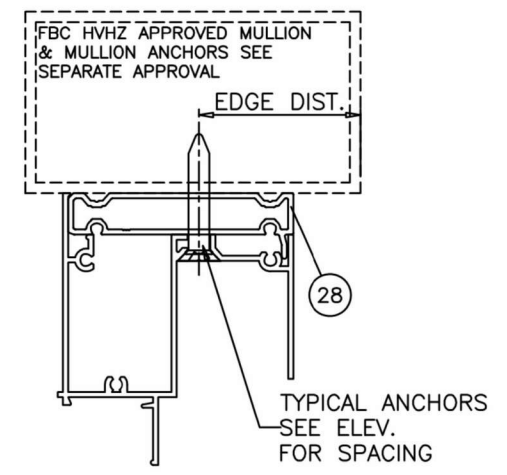
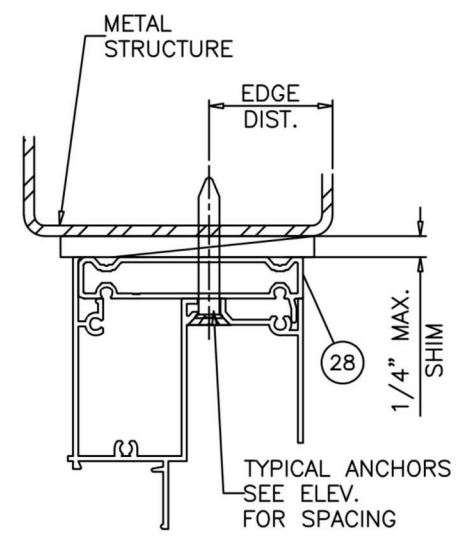
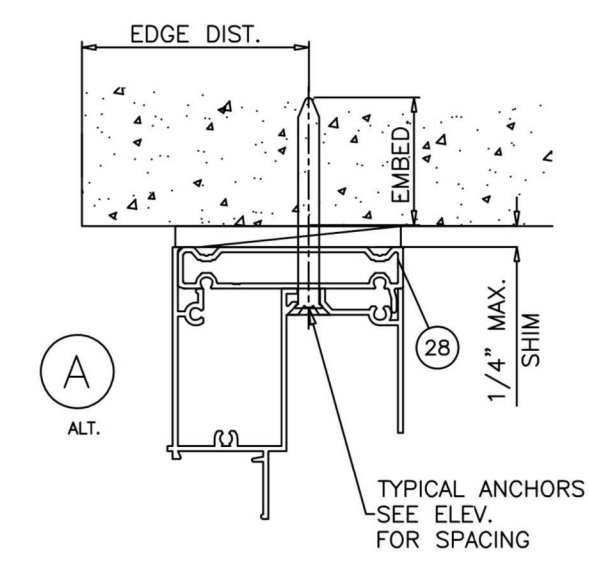
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 SMALL MISSILE IMPACT RATED

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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

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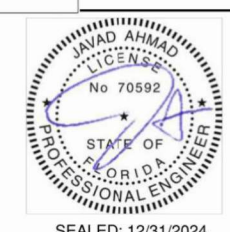
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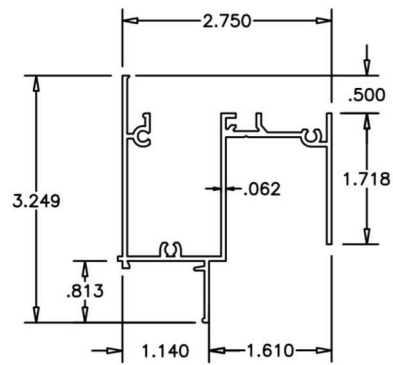
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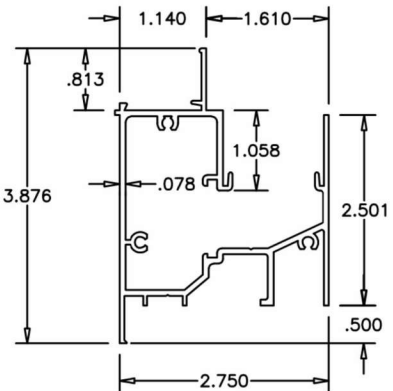
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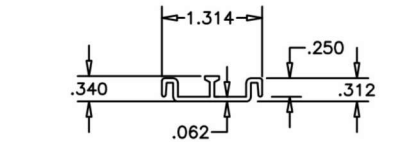
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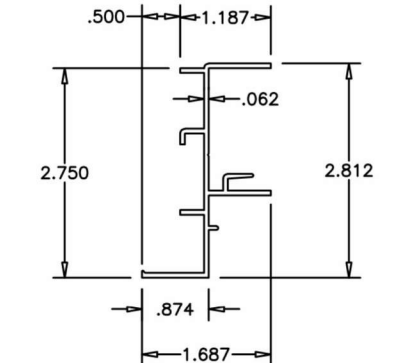
1 FRAME HEAD



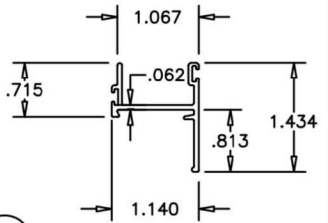
2 FRAME SILL



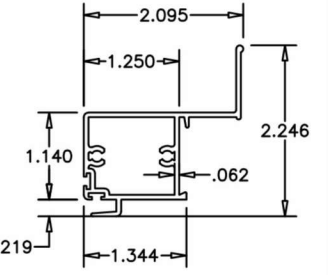
3 SILL TRACK



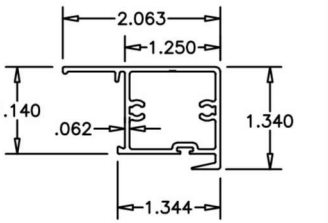
4 MOV. FRAME JAMB



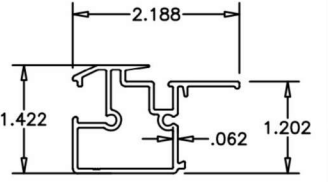
9 VENT TOP/BOT RAIL



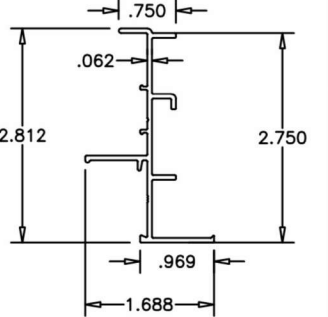
8 JAMB STILE



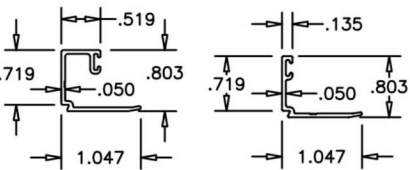
7 METING RAIL



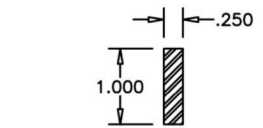
6 FIXED MTG. RAIL



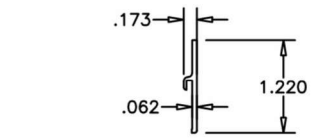
5 FIXED FRAME JAMB



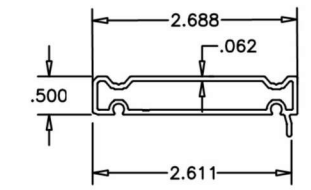
10 10A GLAZING BEADS



11 STEEL REINFORCING



13 ADD-ON SILL RISER



28 FLUSH FRAME ADAPTER

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL
1	FY201	1	FRAME HEAD	6063-T6
2	FY202	1	FRAME SILL	6063-T6
3	FY203	1	SILL TRACK INSERT	6063-T6
4	FY205	AS REQD.	MOV. FRAME JAMB	6063-T6
5	FY101	AS REQD.	FIXED FRAME JAMB	6063-T6
6	FY104	1/VENT	FIXED MTG. RAIL	6063-T6
7	FY105	1/VENT	VENT INTERLOCK	6063-T6
8	FY206	1/VENT	JAMB STILE	6063-T6
9	FY107	2/VENT	TOP AND BOTTOM RAIL	6063-T6
10	FY108	AS REQD.	GLAZING BEAD (5/16" LAM. GLASS)	6063-T6
10A	FY110	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6
11	-	AS REQD.	1" X 1/4" STEEL REINFORCEMENT	STEEL
13	FY204	AS REQD.	ADD-ON SILL RISER	6063-T6
14	FY208	4/VENT	ROLLER HOUSING & GUIDE	CELCON
15	FY209	2/VENT	ROLLER	BRASS
16	FY210	2/VENT	ROLLER PIN	ST. STEEL
17	#8 X 1"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	CRS
18	#8 X 3"	2/VENT	FIX. RAIL SILL SCREWS (SILL END)	CRS
19	W23181	AS REQD.	FIN SEAL W'STRIPPING	-
20	Q300T190	AS REQD.	BULB SEAL	Q-LON
21	E207	AS REQD.	BULB SEAL	SANTOPRENE
22	E203	AS REQD.	GLAZING BEAD BULB	SANTOPRENE
23	FLB-50	AS REQD.	GLASS OFFSET SPACER	SILICONE
24	SL203P	2/VENT	SWEEP LATCH	-
25	#8 X 5/8"	2/LATCH	LATCH INST. SCREW	ST. STEEL
26	WA2L	AS REQD.	WEEP VALVE	-
27	-	1/VENT	5/16" BOX SCREEN	-
28	FY120	AS REQD.	FLUSH FRAME ADAPTER	6063-T6
29	-	AS REQD.	SETTING BLOCK	EPDM
30	-	1/WEEP	OPEN CELL FOAM PAD 3/4" X 15/16" X 2 5/16" LONG	FOAM
31	-	AS REQD.	IG SPACER: CARDINAL XL & SUPERSPACER	VARIOUS

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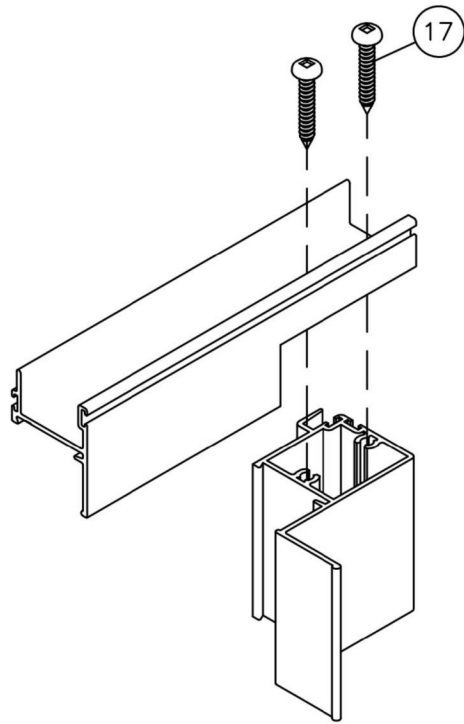
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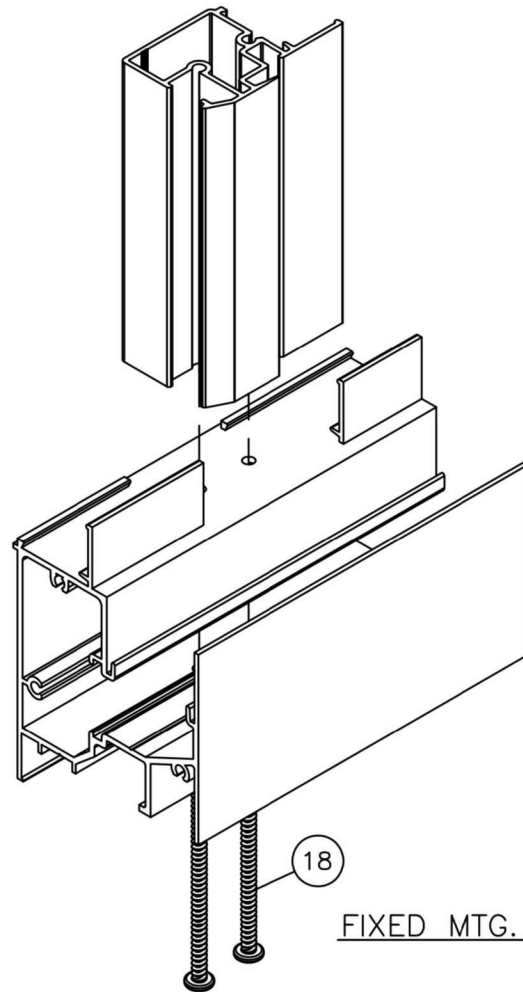
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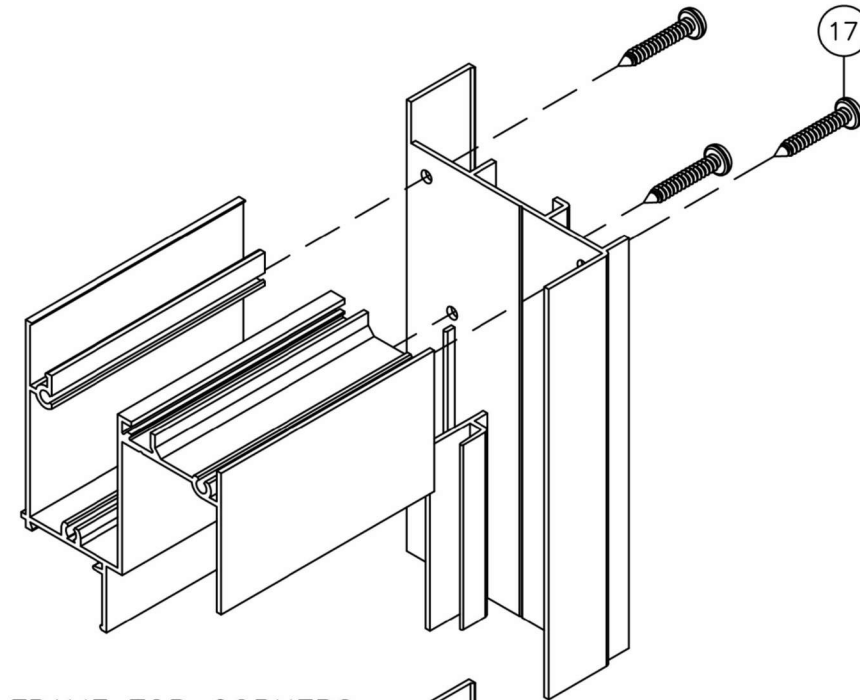
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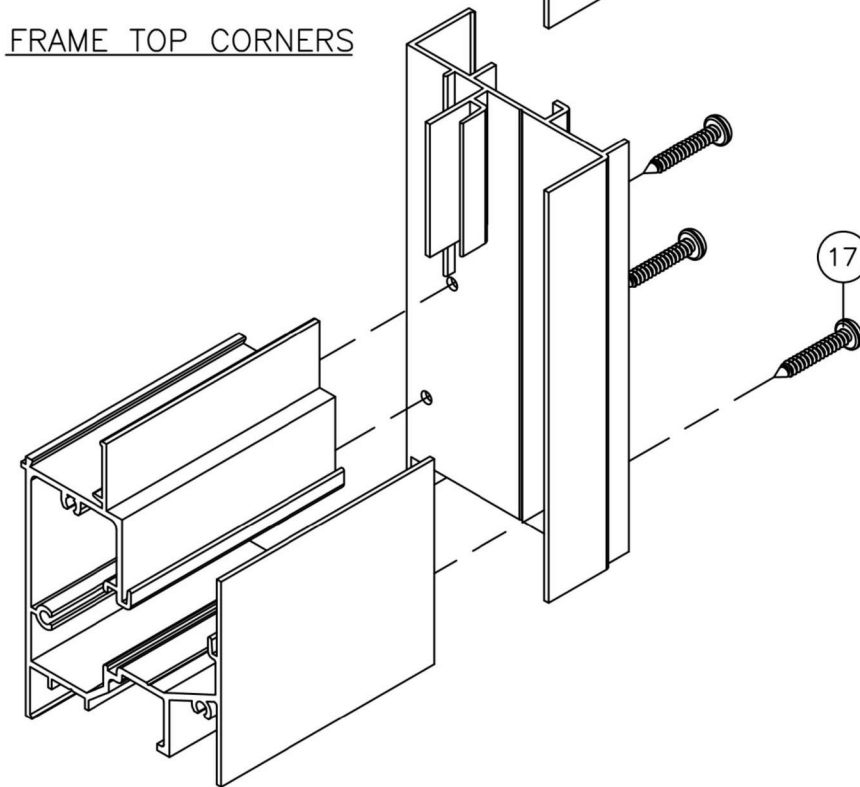
VENT TOP/BOTTOM CORNERS



FIXED MTG. RAIL CORNER



FRAME TOP CORNERS



FRAME BOTTOM CORNERS

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