

Design Load Capacity - PSF									
Window Width (in.)	Anchor Type	Window Height (in.)							
		26" (4)		38-3/8" (4)		50-5/8" (6)		63" (6)	
19-1/8"	1/4" ITW Tapcon	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1
	1/4" DeWalt UltraCon+	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1
	#14 SMS	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1
26-1/2"	1/4" ITW Tapcon	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1
	1/4" DeWalt UltraCon+	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1
	#14 SMS	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1
30"	1/4" ITW Tapcon	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1
	1/4" DeWalt UltraCon+	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1
	#14 SMS	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1
37"	1/4" ITW Tapcon	+75.0	-141.1	+75.0	-138.7	+75.0	-141.1	+75.0	-126.8
	1/4" DeWalt UltraCon+	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1	+75.0	-139.4
	#14 SMS	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1	+75.0	-141.1

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

- * NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.
- * FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

ECO-GUARD SERIES-100
ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ABOVE.

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 HVHZ FPA OR MIAMI DADE 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

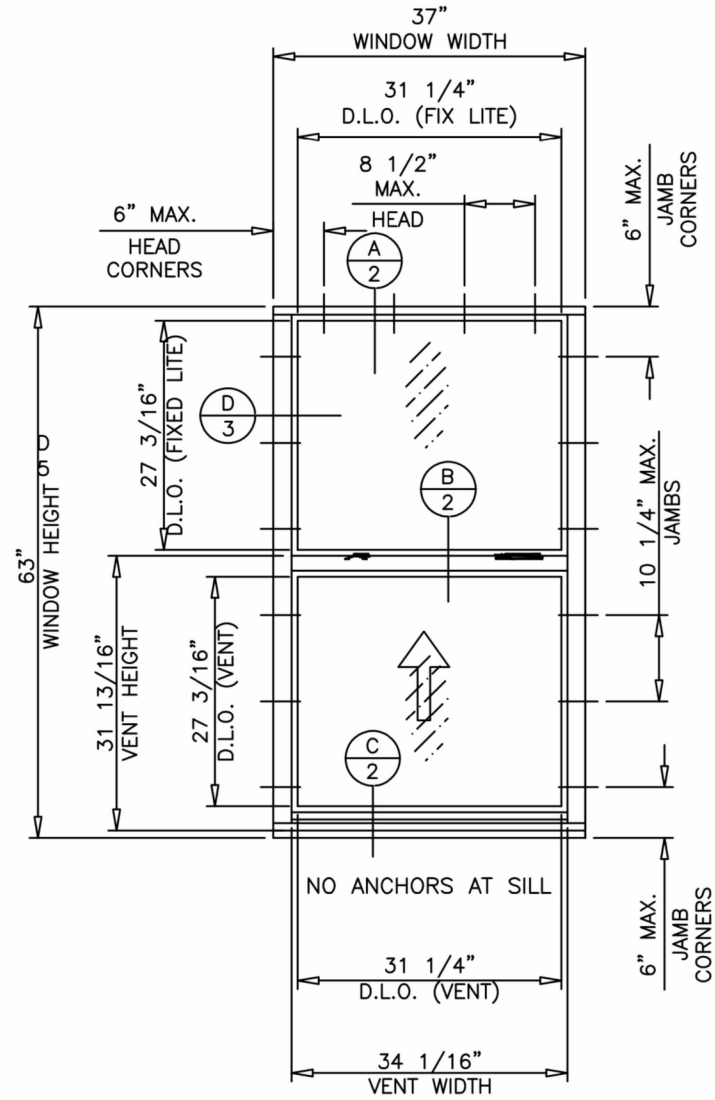
ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

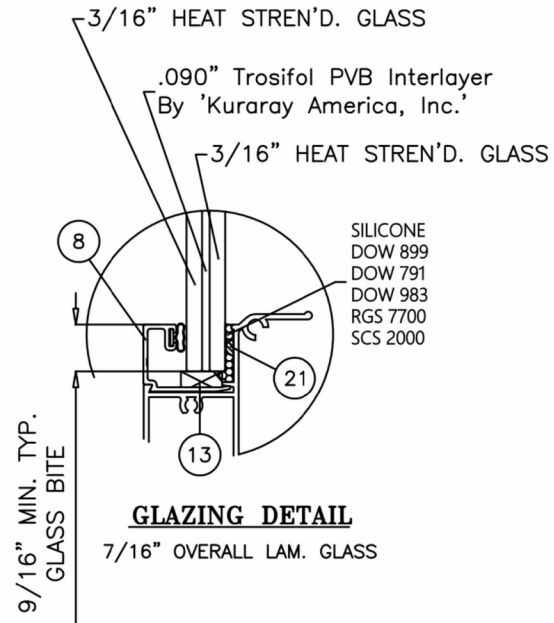
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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 BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



TYPICAL ELEVATIONS
TESTED UNIT



GLAZING DETAIL
7/16" OVERALL LAM. GLASS

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.



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MA	BS	REVISION	DESCRIPTION
drawn by:	check by:		
JA-1844-24	12/31/2024		
drawing no.	date:	DATE	BY
		No.	

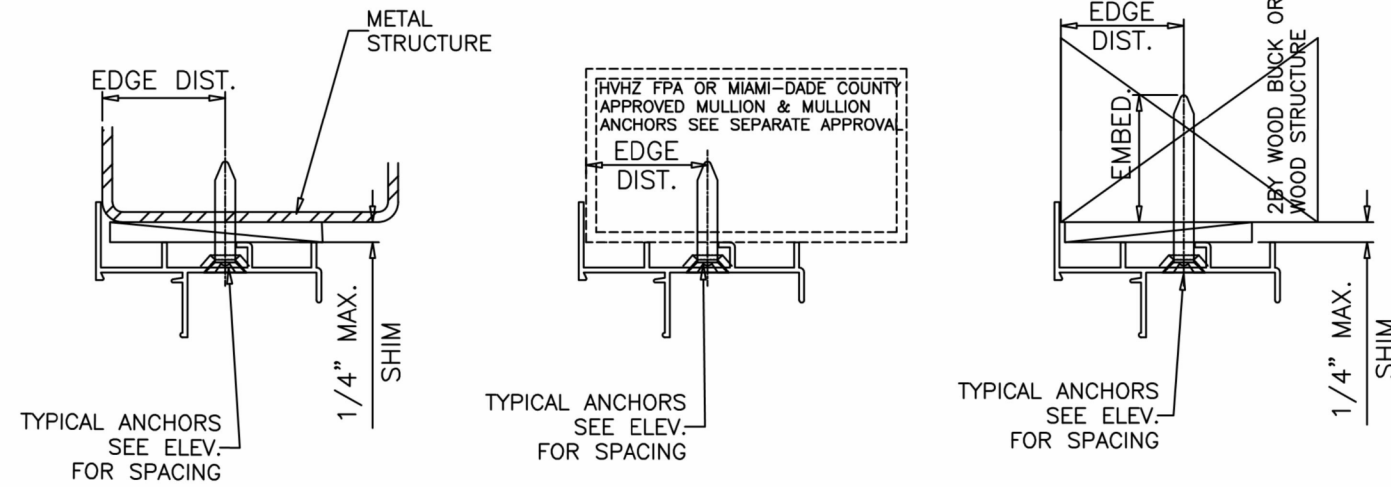
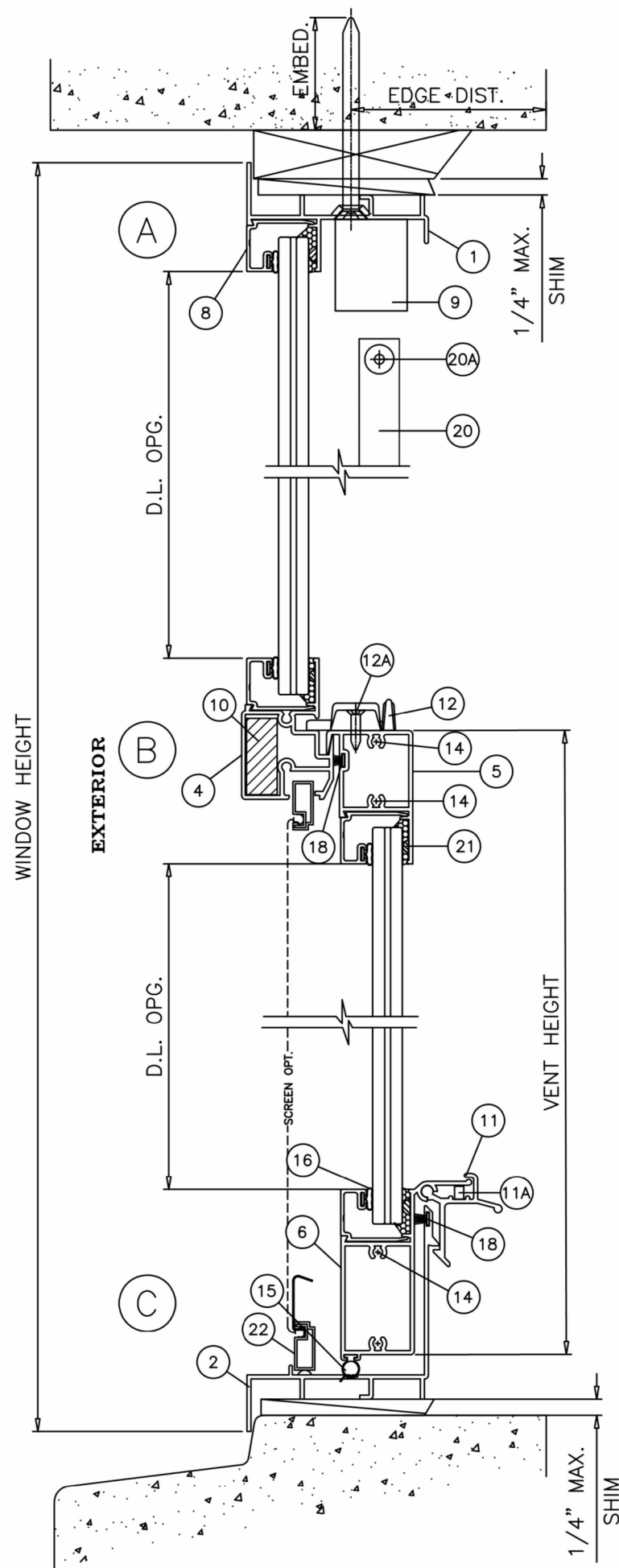
SERIES 100: ECO-GUARD ALUMINUM SINGLE HUNG WINDOW (S.M.I.)
SMALL MISSILE IMPACT RATED

ECO window systems
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
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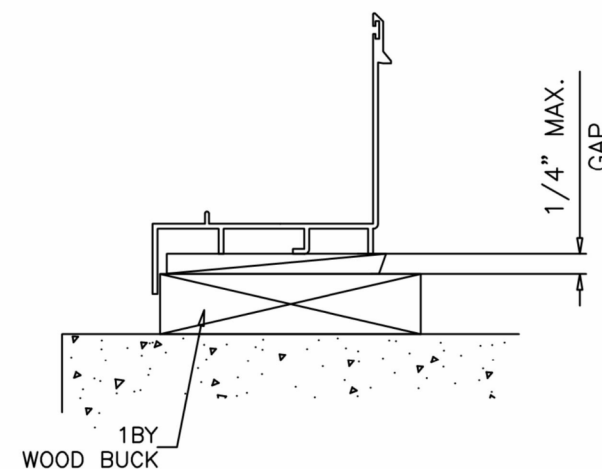


WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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 +	Head/Jambs	Southern Pine (SG = 0.55)	1"	1-1/2"
	Head/Jambs	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"
	Head/Jambs	Concrete (min. 3ksi)	2-1/2"	1-1/2"
	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
	Head/Jambs	Aluminum 1/8" Thk. Min. (6063-T5)	3/4"	(3) Threads min. beyond metal thickness
	Head/Jambs	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



SEALANT:

ALL JOINT AND FRAME CONNECTIONS SEALED WITH JOINT SEALER.

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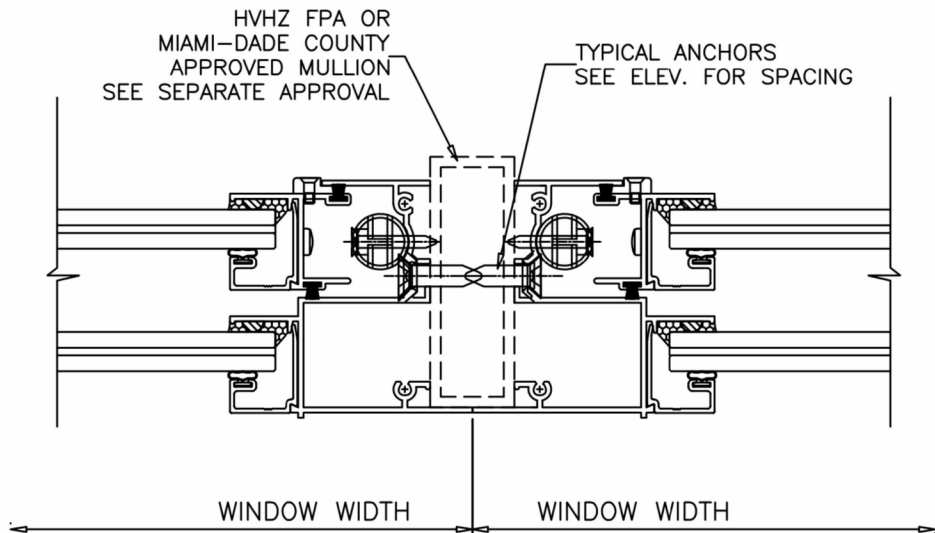
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(S.M.I.)
SMALL MISSILE IMPACT RATED



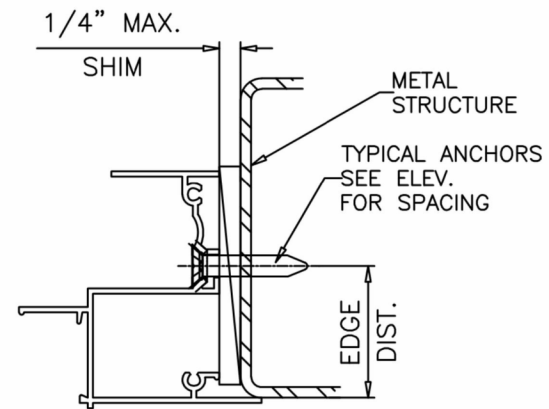
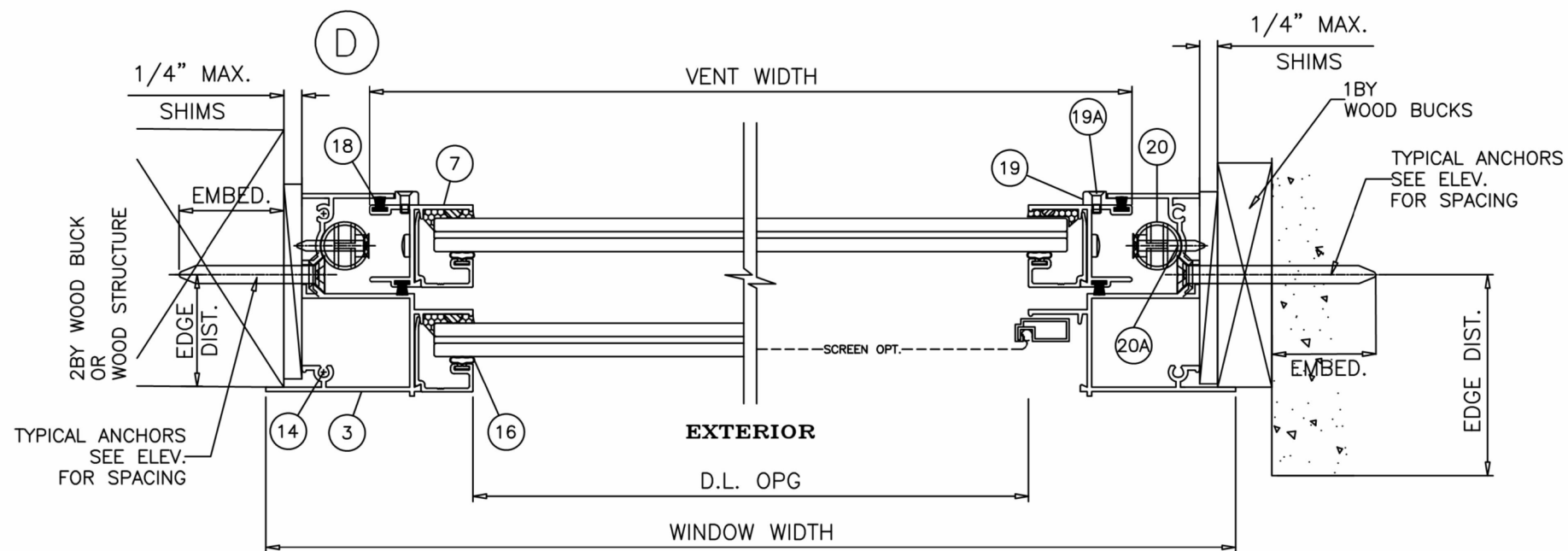
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	FY101	1	FRAME HEAD	6063 - T6	-
2	FY115	1	FRAME SILL	6063 - T6	-
3	FY103	2	FRAME JAMB	6063 - T6	-
4	FY104	1	FIXED MTG. RAIL	6063 - T6	-
5	FY105	1	VENT TOP RAIL	6063 - T6	-
6	FY114	1	VENT BOTTOM RAIL	6063 - T6	-
7	FY107	2	VENT SIDE RAIL	6063 - T6	-
8	FY109	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063 - T6	-
9	FY116	2 / VENT	SASH STOP	6063 - T6	-
10	-	1	FIX. MTG. RAIL REINFORCEMENT	6063 - T6	-
12	SL203P	1/ VENT	SWEEP LATCH, CENTERED AT VENT	ZAWAK	SULLIVAN & ASSOC.
12A	#8 X 5/8"	2 / LATCH	LATCH INST. SCREWS	ST. STEEL	FH SMS
13	-	AS REQD.	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
14	#8 X 1"	AS REQD.	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
15	E207	AS REQD.	BOTTOM RAIL SEAL - SERIES 101	NEOPRENE	ULTRAFAB
16	E203	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
18	W23181	AS REQD.	FIN SEAL W'STRIPPING	-	ULTRAFAB
19	FY117	4 / VENT	SASH GUIDE	CELCON	M&M PLASTICS
19A	#6 X 3/8"	1 / GUIDE	SASH GUIDE INST. SCREW	-	OH SMS TYPE B
20	F210	2 / VENT	SASH BALANCE	-	SUPERBOOST BY BSI
20A	#8 X 5/8"	1 / BALANCE	BALANCE INST. SCREW	-	PFH SMS
21	-	AS REQD.	GLASS OFFSET SPACER	SILICONE	FRANK LOWE
22	-	1	5/16" BOX SCREEN	-	OPTIONAL
23	FY120	AS REQD.	FLUSH FRAME ADAPTER	6063 - T6	OPTIONAL



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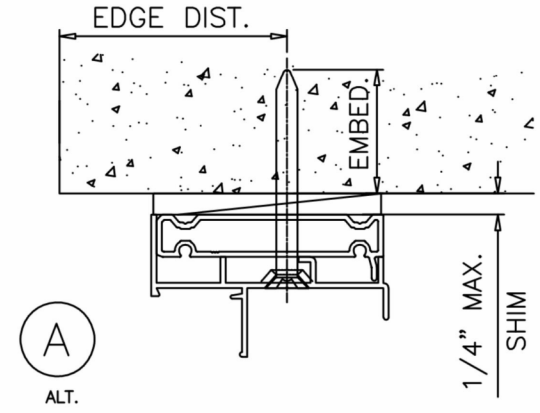
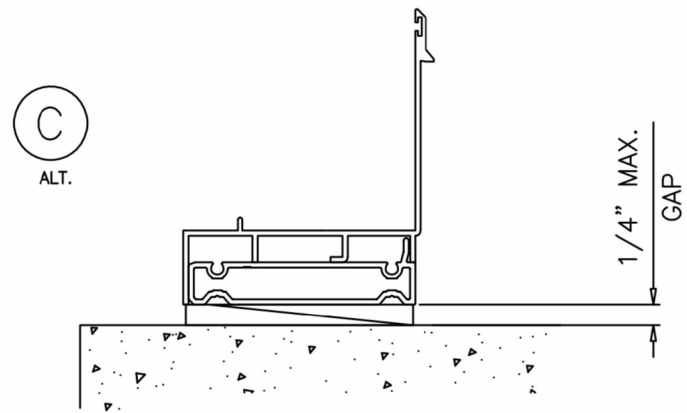
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SMALL MISSILE IMPACT RATED

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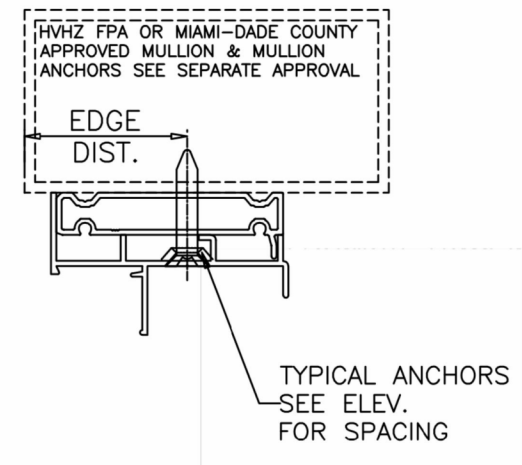
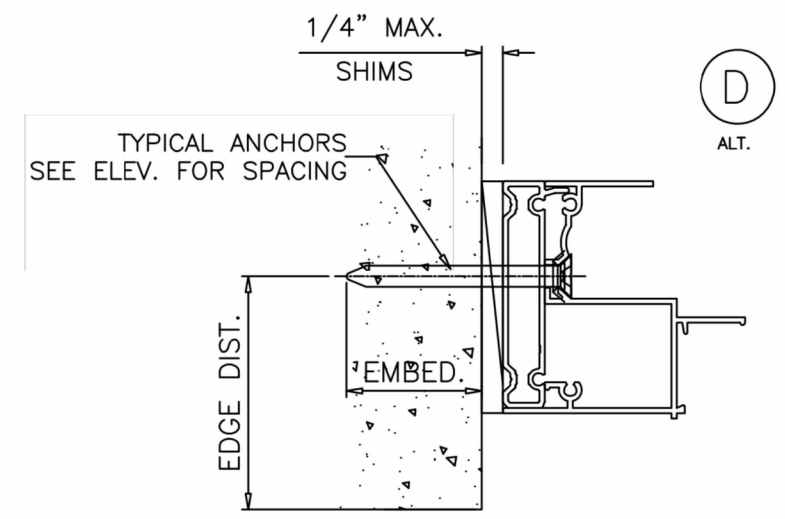
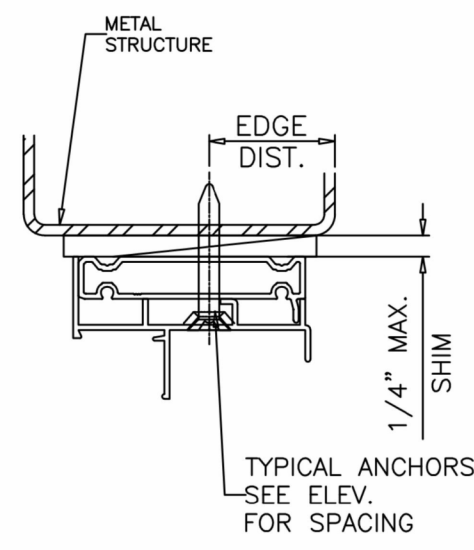
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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER



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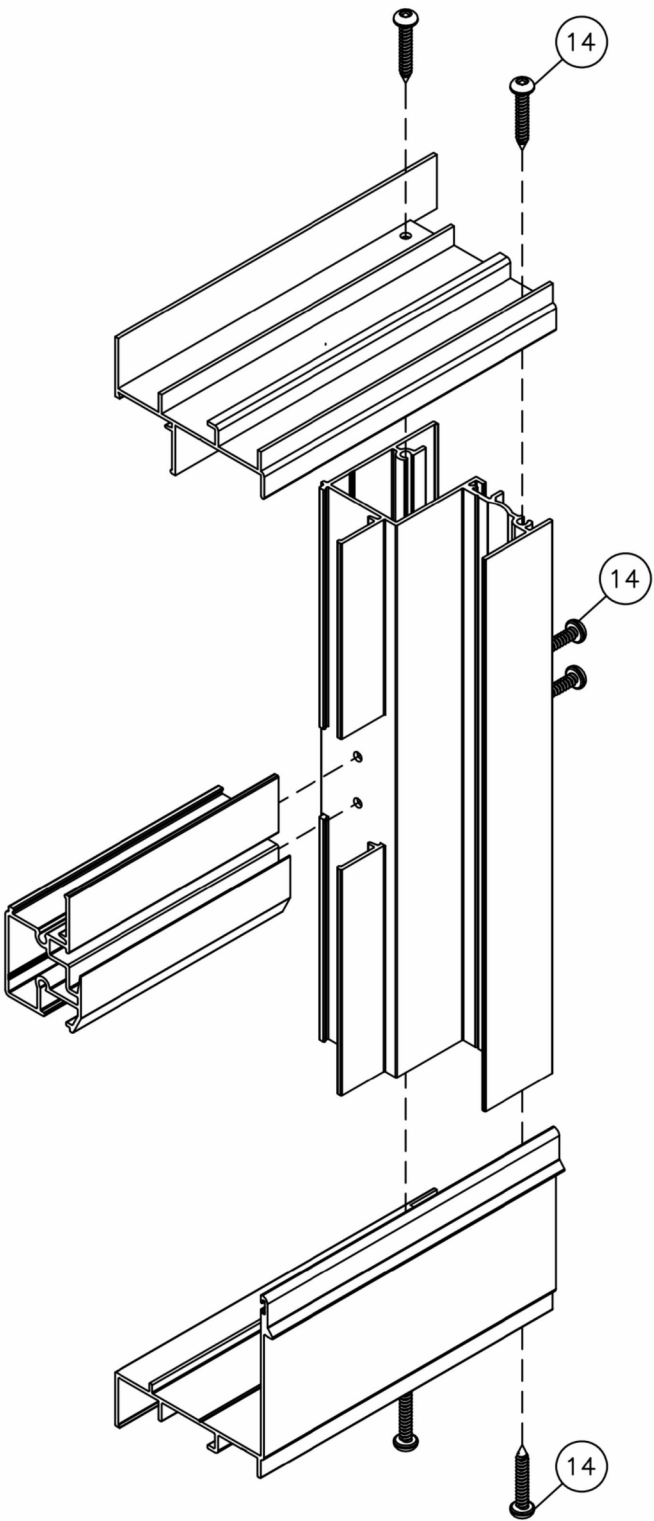
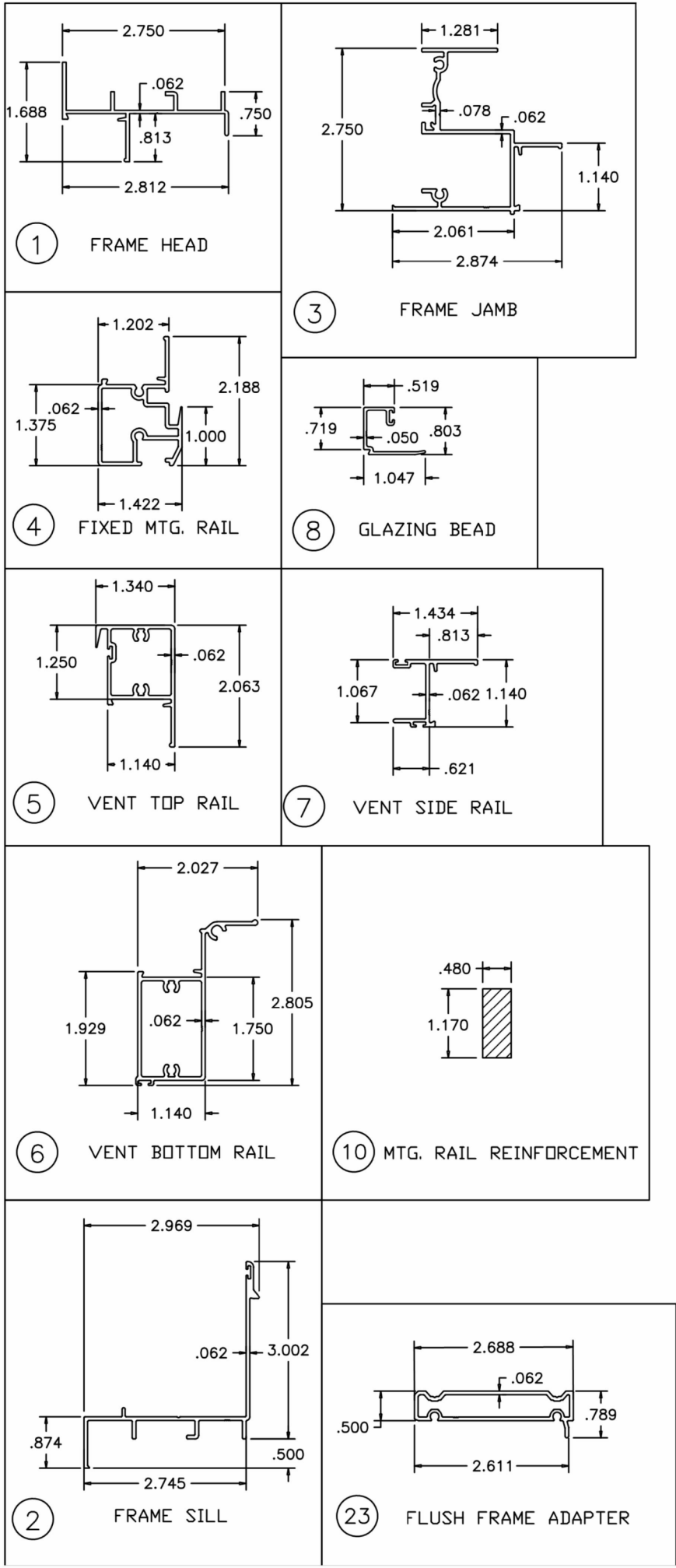
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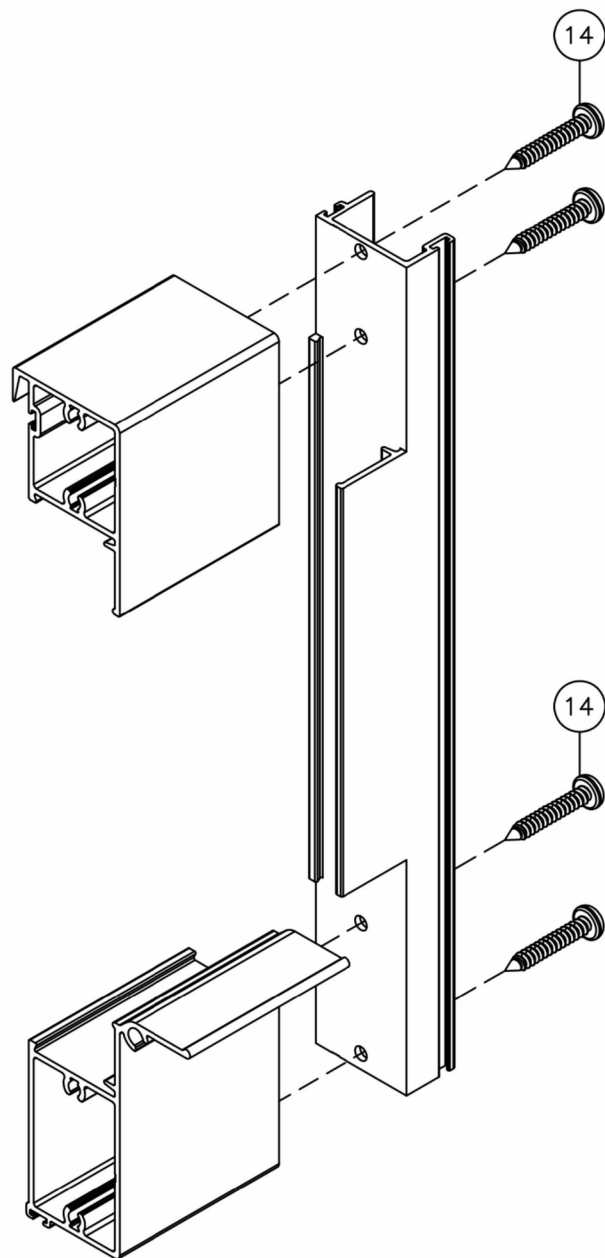
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FRAME CORNER DETAIL



VENT CORNER DETAIL

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