

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

SERIES 845
ALUMINUM OUT-SWING ENTRANCE DOOR

SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF SINGLE AND DOUBLE DOORS.

DOORS CAN ALSO BE USED WITH ECO WINDOW’S FBC APPROVED SERIES 450 WINDOW WALL SYSTEM UNDER SEPARATE APPROVAL. FOR DOORS WITH WINDOW WALL SYSTEM SEE SEPARATE APPROVAL FOR DOOR MULLION CAPACITY AND ANCHORING REQUIREMENTS. THE LOWEST VALUE RESULTING FROM DOOR CAPACITY OR WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.

DOOR NOT APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. DOOR MAY BE INSTALLED IN LOCATIONS WHERE THE OVERHANG LENGTH IS GREATER THAN OR EQUAL TO THE OVERHANG HEIGHT (SEE FIGURE A).

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)'.

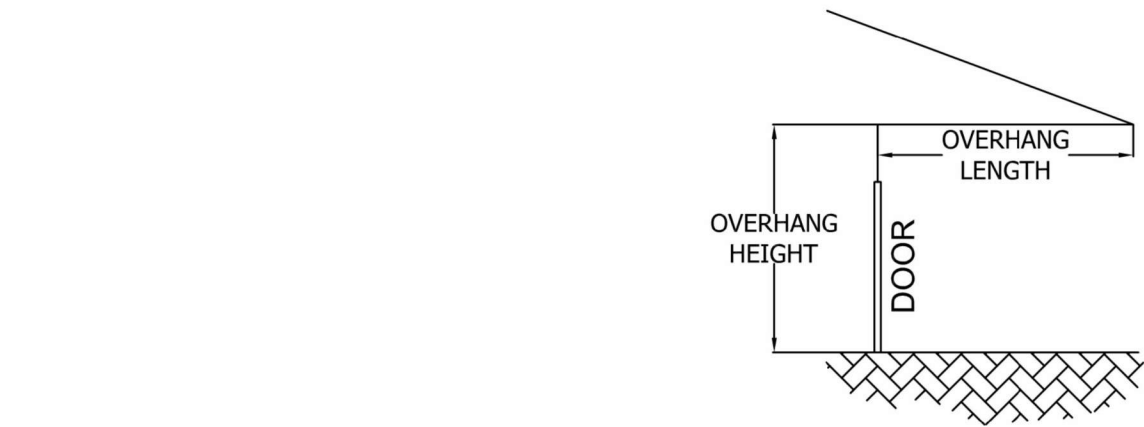
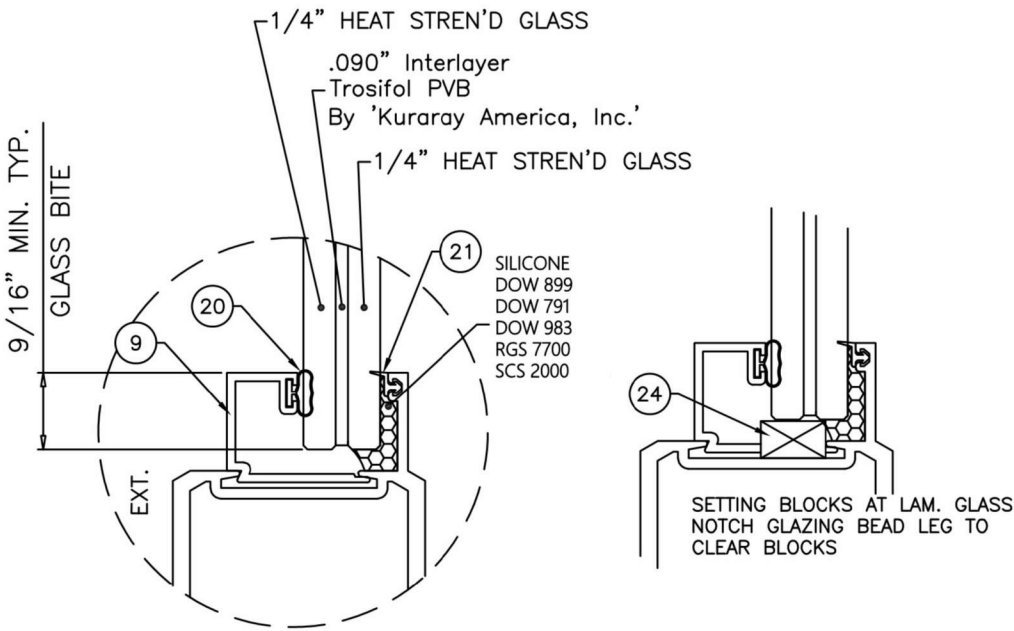


FIGURE A



GLAZING DETAIL

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



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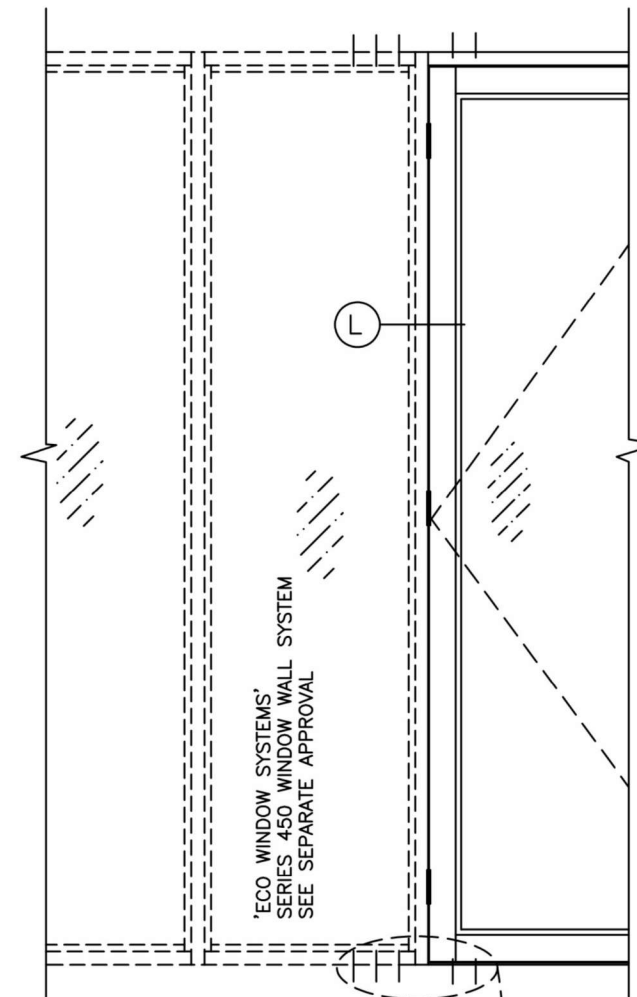
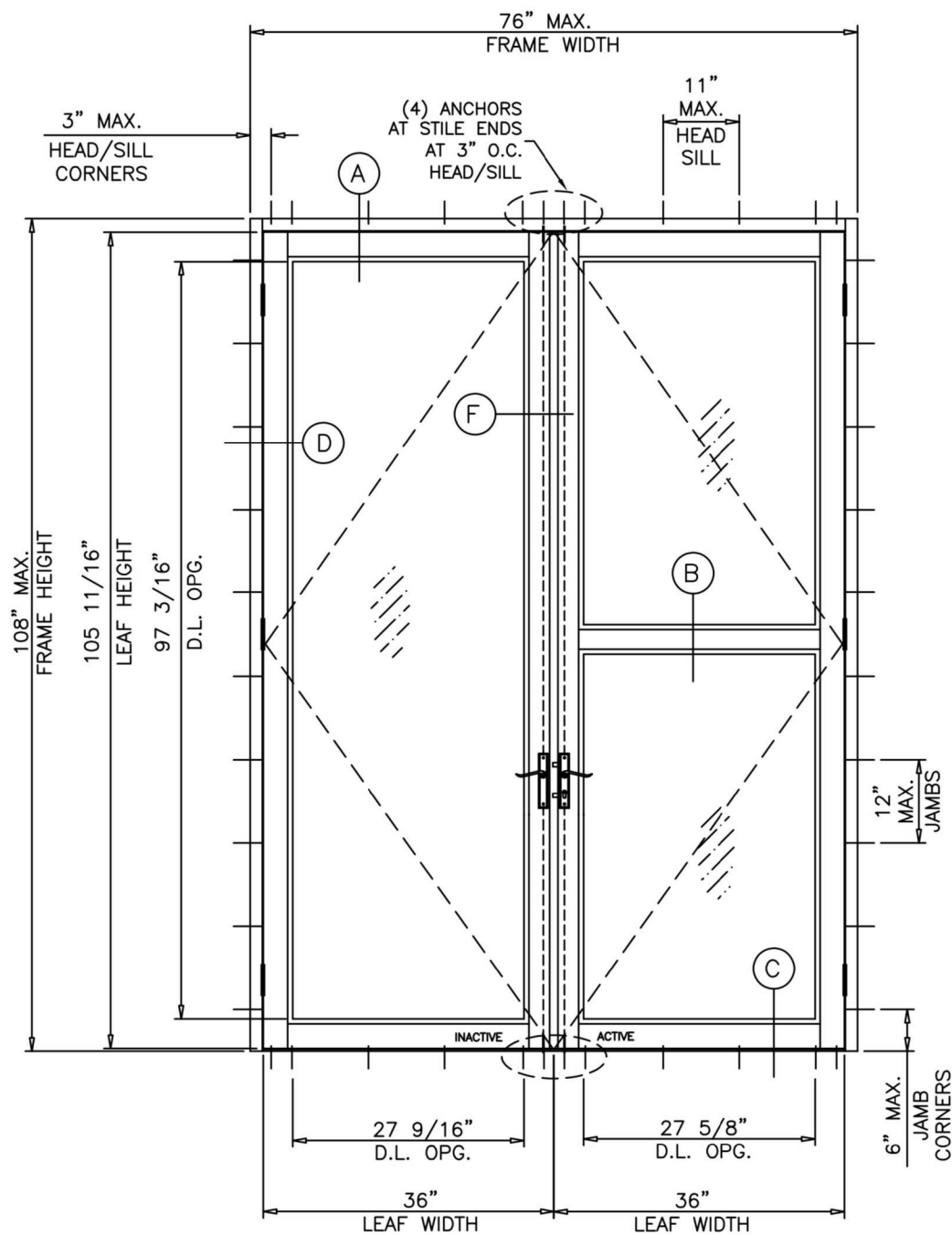
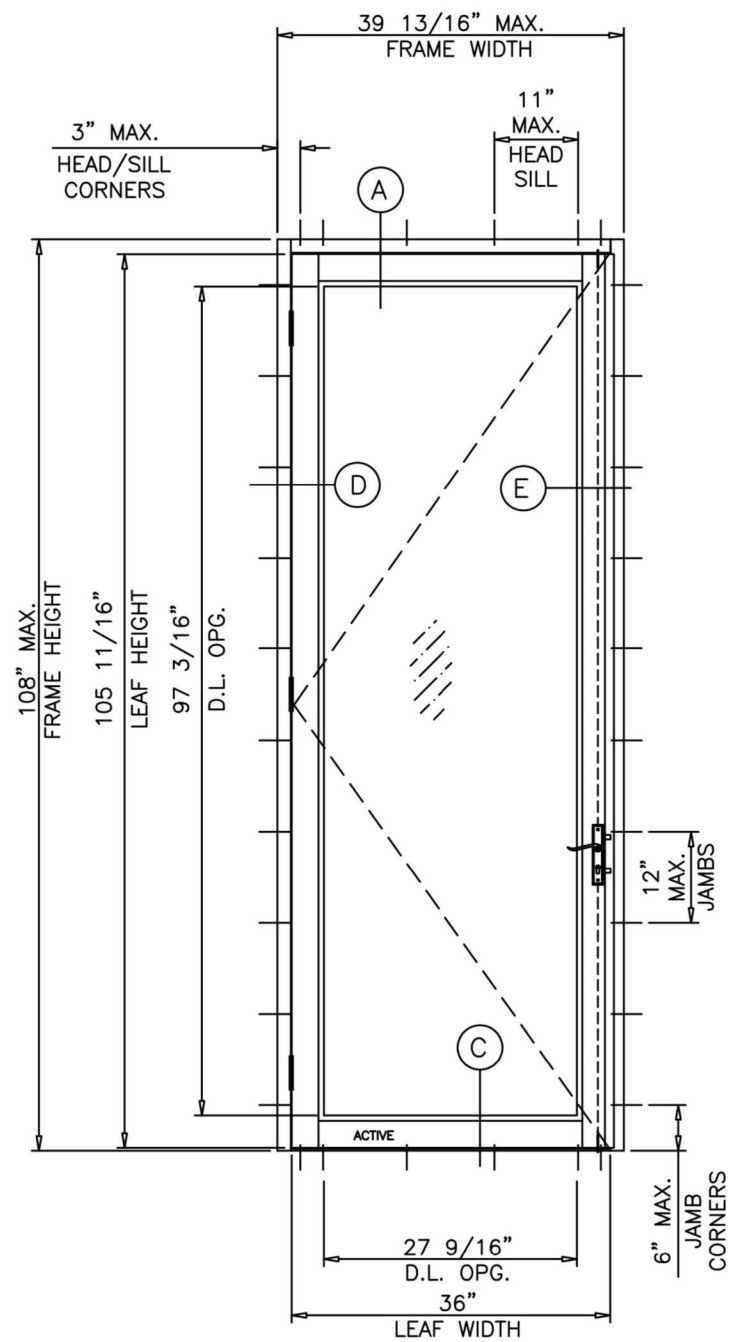
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(L.M.I.)
LARGE MISSILE IMPACT RATED

window systems
ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902



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TYPICAL ELEVATIONS

SINGLE DOOR LOAD CAPACITY - PSF					
FRAME DIMS.		LEAF DIMS		POS. (+)	NEG. (-)
WIDTH	HEIGHT	WIDTH	HEIGHT		
39- 13/ 16"	108"	36"	105- 11/ 16"	70.0	75.0

DOUBLE DOOR LOAD CAPACITY - PSF					
FRAME DIMS.		LEAF DIMS		POS. (+)	NEG. (-)
WIDTH	HEIGHT	WIDTH	HEIGHT		
76"	108"	36"	105- 11/ 16"	70.0	75.0

GLASS D.L.O. FORMULAE: (DOOR)

D.L.O. WIDTH = FRAME WIDTH - 12.250" (X DOORS)

D.L.O. WIDTH = (FRAME WIDTH - 20.875")/2 (XX DOORS)

D.L.O. HEIGHT (ADA THRESHOLD) = FRAME HEIGHT - 10.813" (4-1/4" BOTTOM RAIL)
= FRAME HEIGHT - 16.563" (10" BOTTOM RAIL)

DOOR LEAF HEIGHT = FRAME HEIGHT - 2.250"

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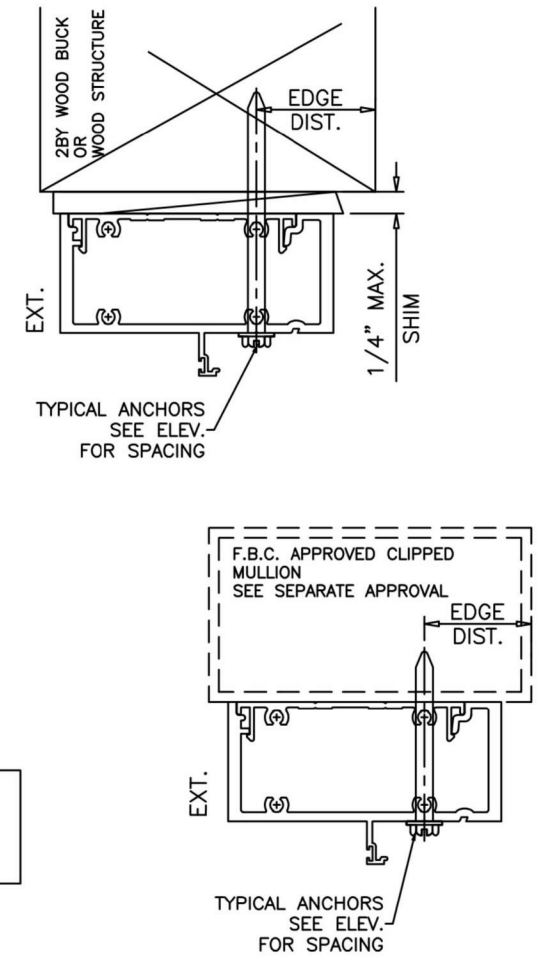
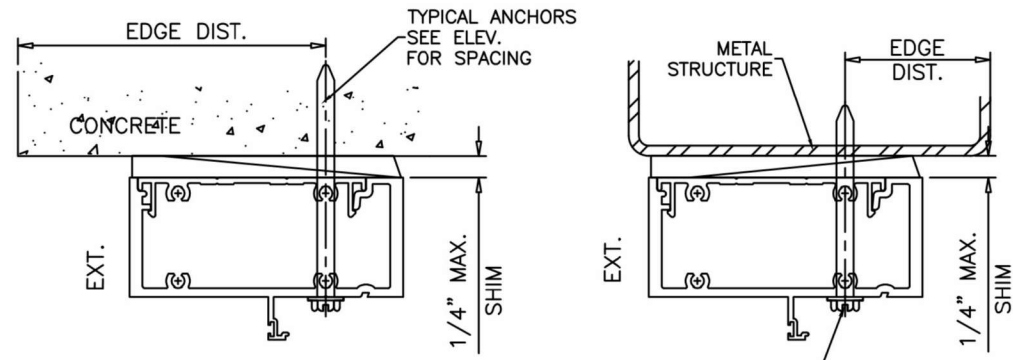
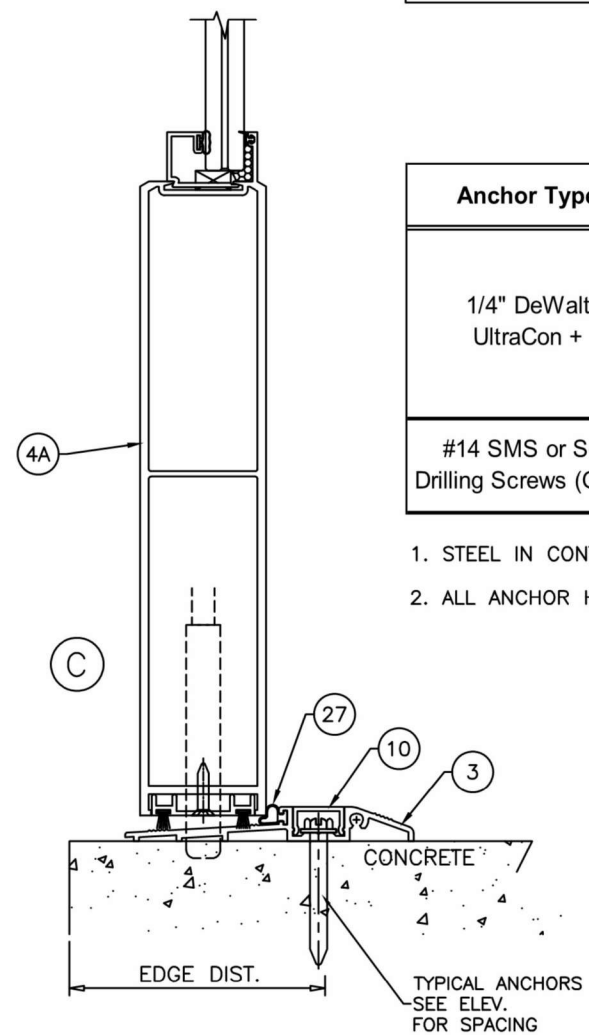
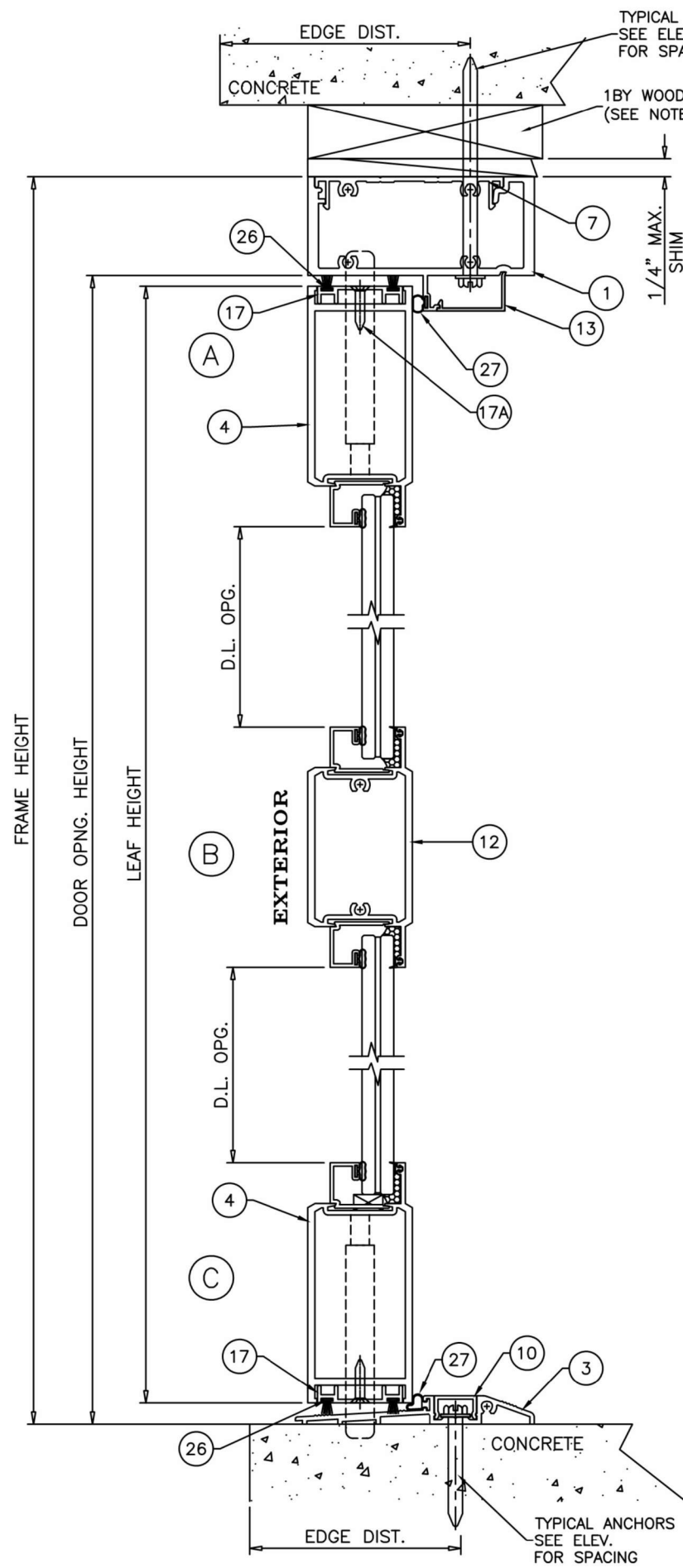
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1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
1/4" 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"
	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	F.B.C Approved Mullions	1/2"	(3) Threads min. beyond metal thickness
	All	Aluminum 1/8" Thk. Min. (6063-T5)	1/2"	(3) Threads min. beyond metal thickness
	All	Steel 1/8" Thk. Min. (min. 36 ksi)	1/2"	(3) Threads min. beyond metal thickness

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

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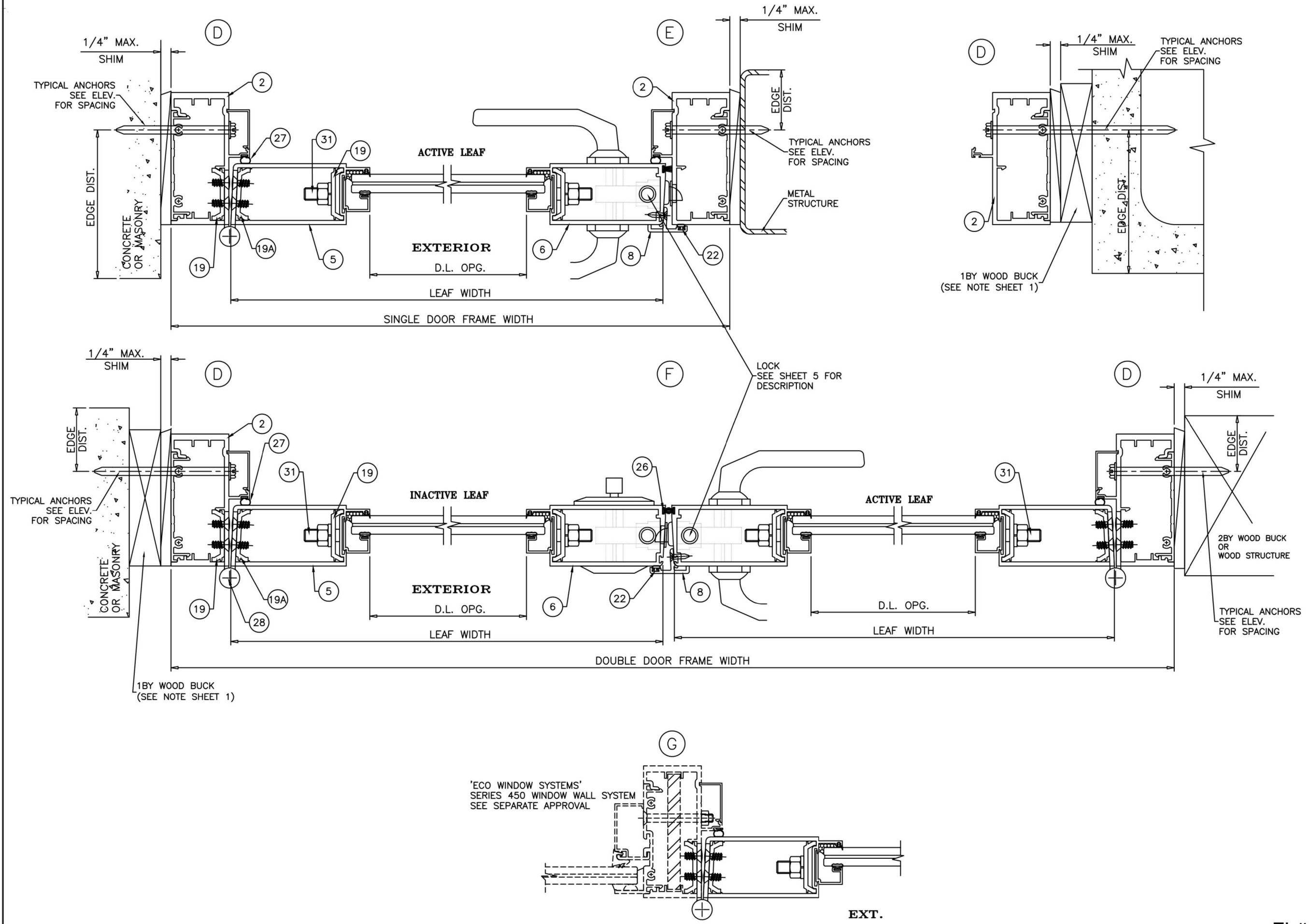
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	457	1	DOOR FRAME HEAD	6063 – T6	–
2	454	2	DOOR FRAME JAMB	6063 – T6	–
3	455	1	ADA THRESHOLD	6063 – T6	–
4	E805	2/LEAF	LEAF TOP & BOTTOM RAIL	6063 – T6	–
4A	E808	1/LEAF	10” BOTTOM RAIL	6063 – T6	–
5	E806	1/LEAF	LEAF HINGE STILE	6063 – T6	–
6	E823	1/LEAF	LEAF LOCK STILE	6063 – T6	–
7	453	AS REQD.	SHEAR CLIP. 4” LONG	6063 – T6	AT ANCHOR LOCATIONS
8	E809	AS REQD.	ASTRAGAL W'STRIP ADAPTER	6063 – T6	–
9	E614	4/LEAF	GLAZING BEAD (LAM. GLASS)	6063 – T6	–
10	456	AS REQD.	ADA THRESHOLD COVER	6063 – T6	–
12	E819	AS REQD.	INTERMEDIATE HORIZONTAL TYPE 1	6063 – T6	–
12A	E822	AS REQD.	INTERMEDIATE HORIZONTAL SHEAR BLOCK	6063 – T6	–
13	E820	AS REQD.	DOOR FRAME SNAP COVER	6063 – T6	–
15	E825	AS REQD.	LOCK BACK-UP PLATE	6063 – T6	–
17	E608	AS REQD.	LEAF W'STRIP ADAPTER	6063 – T6	–
17A	#8 X 3/4”	AS REQD.	ADAPTER FASTENER, AT 11” O.C.	6063 – T6	FH SELF DRILLING SCREW
18	E612	AS REQD.	LEAF ALIGNMENT BRACKET	6063 – T6	–
19	E613	AS REQD.	LEAF CLAMP	6063 – T6	–
19A	E613	AS REQD.	HINGE BACKUP PLATE, 9” LONG	6063 – T6	–
20	E20618.KN3020	AS REQD.	GLAZING VINYL	EPDM	TECHNO RUBBER IND.
21	E815	4/LEAF	SILICONE DAM	EPDM	TECHNO RUBBER IND.
22	E817	AS REQD.	ASTRAGAL SEAL	EPDM	TECHNO RUBBER IND.
24	–	2/LITE	SETTING BLOCK (1/4” X 1/2” X 4”LONG) AT 6” FROM ENDS	EPDM	TECHNO RUBBER IND., DUROMETER 80±5 SHORE A
26	W11323	–	PILE W'STRIPPING	WOOL	ULTRAFAB
27	E20618–KN–3020	–	BULB W'STRIPPING	SANTOPRENE	–
28	–	3/LEAF	BUTT HINGES	ALUMINUM	REGENT
29	1/4–20 X 1/2”	–	HINGE INSTALLATION FASTENERS	–	FH MS
30	#12 X 1–1/4”	AS REQD.	FRAME ASSEMBLY SCREWS	–	HH SELF DRILLING SCREWS
31	–	–	3/8” DIA. THREADED ROD	STEEL	–

LOCKS:

ACTIVE LEAF:

3 POINT LOCK SYSTEM BY 'REGENT' AT 40–1/2” FROM BOTTOM
WITH CONCEALED VERTICAL ROD
6 PLY BOLT ENGAGING AT LOCK STILE OR FRAME JAMB
AND SHOOT BOLTS ENGAGING AT HEAD AND SILL
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
FASTENED TO ACTIVE LEAF LOCK STILE WITH
(2) #8 X 1/2” FH SMS

INACTIVE LEAF:

2 POINT LOCK SYSTEM SERIES MS1880, MS1881 BY 'ADAMS RITE'
AT 42–1/2” FROM BOTTOM
WITH CONCEALED VERTICAL RODS
AND SHOOT BOLTS ENGAGING AT HEAD AND SILL
THUMB TURN ON INTERIOR
FASTENED TO INACTIVE LEAF LOCK STILE WITH
(2) 6–32 X 5/16” PH MACHINE SCREWS

DOOR HANDLES:

SURFACE MOUNT METALLIC HANDLES AT 42–1/2” FROM BOTTOM
FASTENED TO ACTIVE AND INACTIVE LEAF LOCK STILES WITH
(2) 1/4–20 X 1–13/16” CONE HEAD MS
(4) 1/4–20 X 5/16” SET SCREWS

HINGES:

4–1/2” LONG FLUSH MOUNT STEEL BUTT HINGES BY 'REGENT'
(3) PER LEAF
(1) AT 9” FROM TOP TO CL OF HINGE
(1) AT 7–1/4” FROM BOTTOM TO CL OF HINGE
CENTER HINGE EQUALLY SPACED FROM TOP & BOTTOM HINGE
FASTENED WITH 1/4–20 x 1/2” FH MACHINE SCREWS
FOUR PER HASP (LEAF)

SEALANTS:

ALL FRAME JOINTS AND SEAMS SEALED WITH
SCHNEE–MOREHEAD SM5504 ACRYL–R SEAM SEALER



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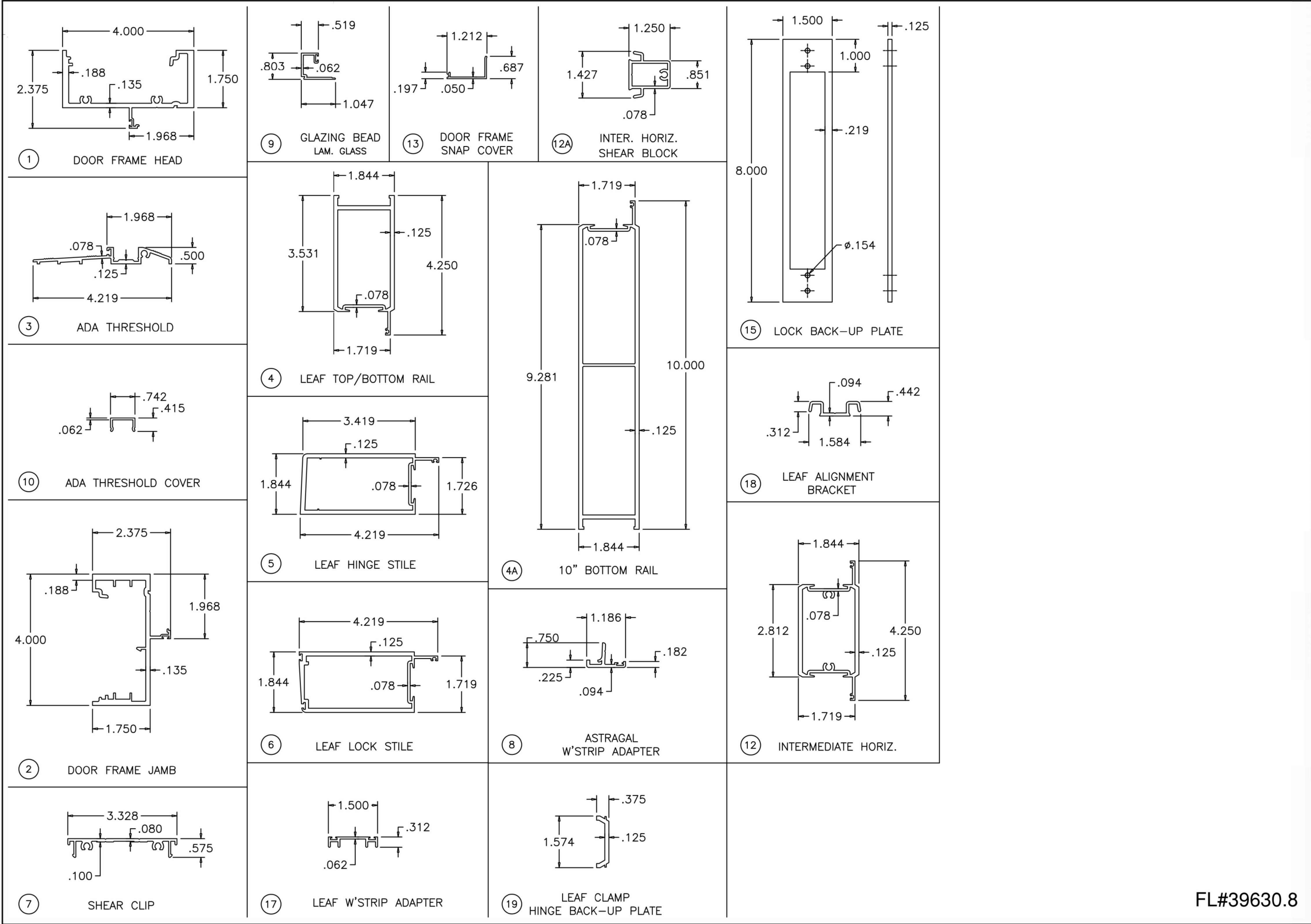
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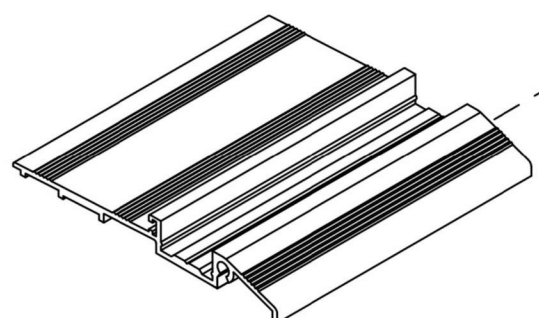
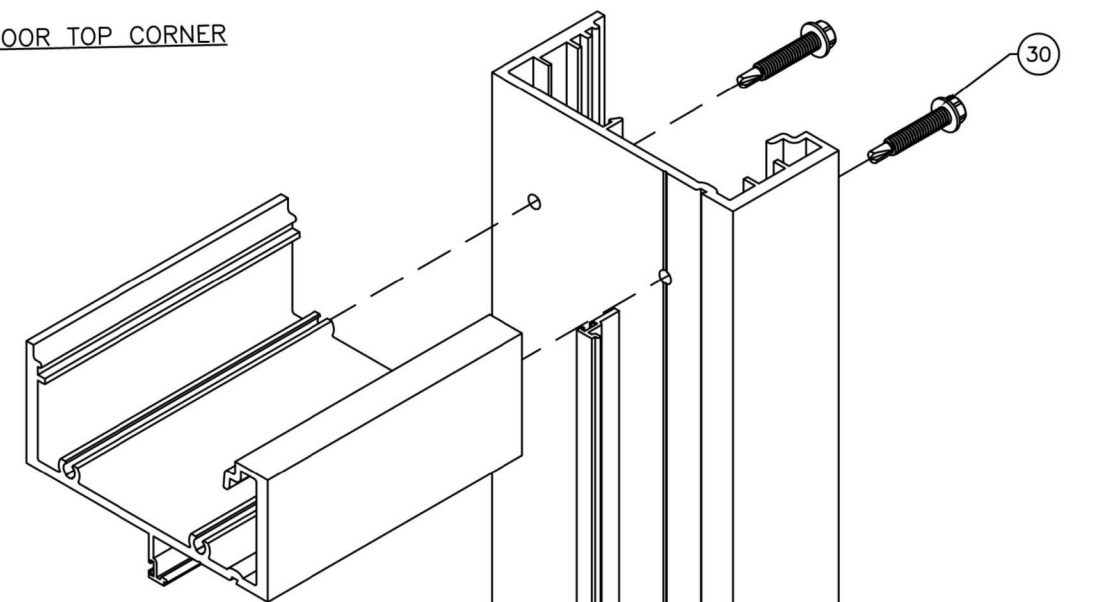
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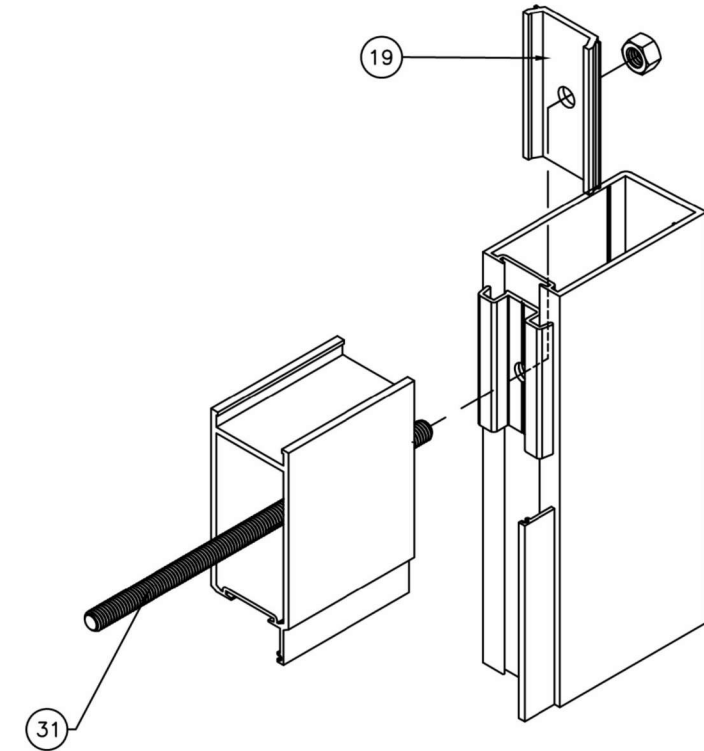

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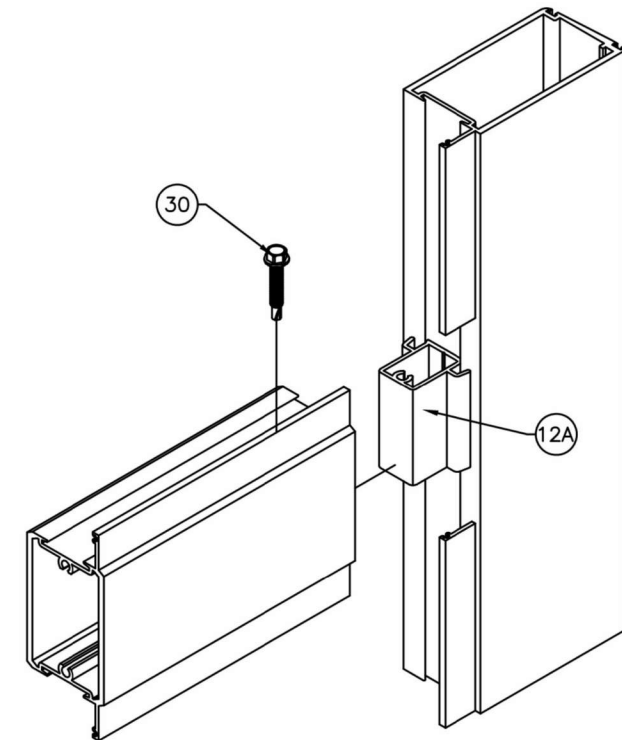
DOOR TOP CORNER



ADA SILL CORNER



LEAF TOP/BOTTOM CORNERS



INTERMEDIATE HORIZONTAL CORNERS

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