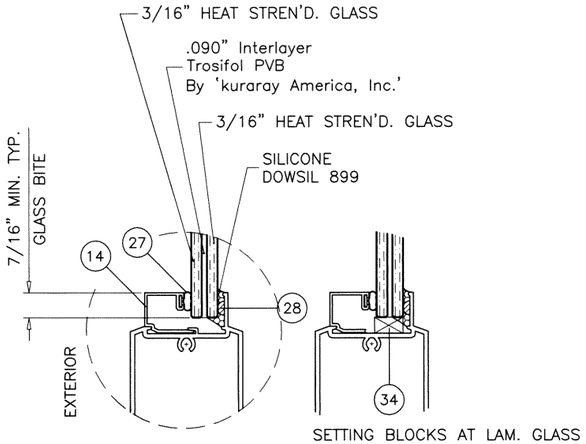
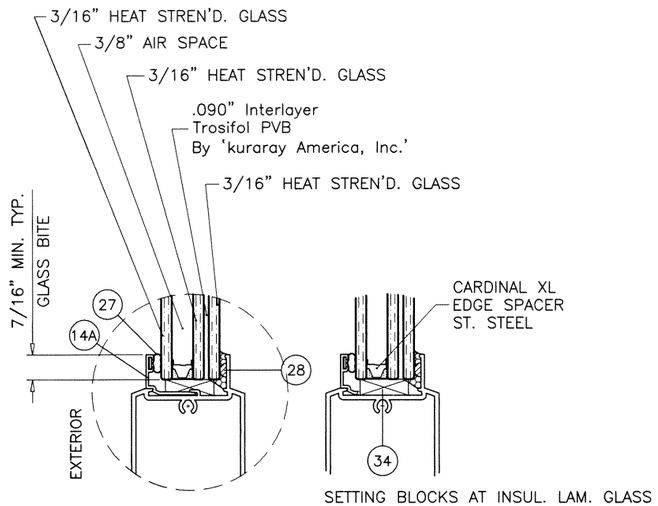


GLASS TYPE 'A'



GLASS TYPE 'A1'

EXTERIOR LITE OF GLASS TYPE 'A1' TO BE TEMPERED
FOR INSTALLTIONS ABOVE 30 FT. OF GRADE.

SERIES 950
ALUMINUM OUTSWING ENTRANCE DOOR

SINGLE (X) AND DOUBLE (XX) LEAF DOORS SEE SHEET 2.
SINGLE AND DOUBLE LEAF DOORS WITH SIDELITES SEE SHEETS 3 & 4.

LOWER VALUES FROM SIDELITE CAPACITY CHART OR DOOR CAPACITY WILL APPLY TO ENTIRE SYSTEM.

DOORS APPROVED FOR INSTALLATION WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH 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 2017/2020 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.

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

Sealed: 10/5/2020

FL #25667

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.

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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\W17-118ECO

SERIES 950 ALUMINUM OUTSWING DOOR (L.M.I.)

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

revisions:			
no	date	by	description
A	09.30.20		UPDATED TO 2020 FBC

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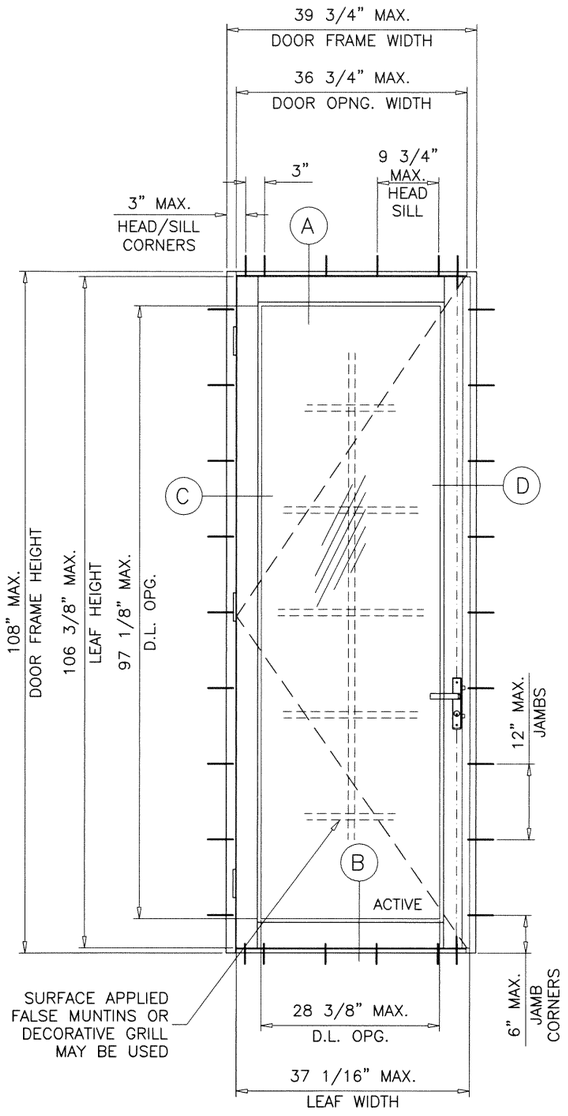
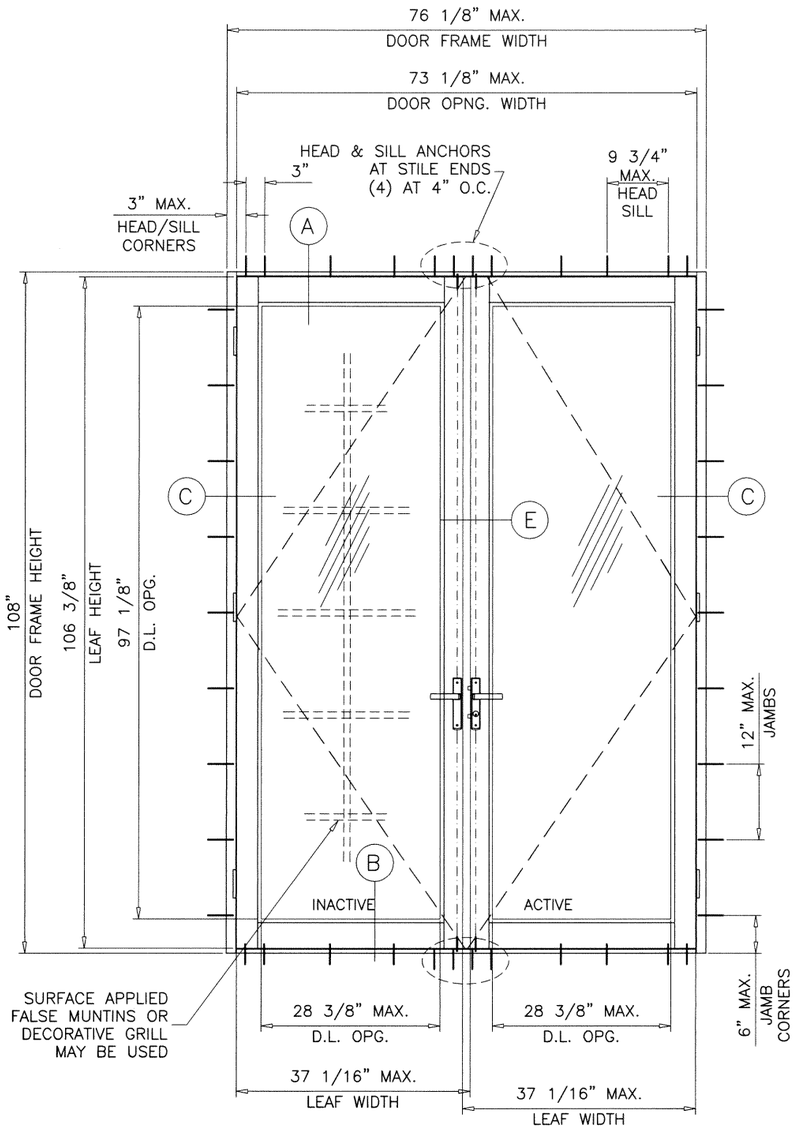
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-118

sheet 1 of 10



TYPICAL ELEVATION
(X)



TYPICAL ELEVATION
(XX)

NOTE:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

GLASS D.L.O. FORMULAE:
D.L.O. WIDTH = FRAME WIDTH – 11.375" (X DOORS)
= (FRAME WIDTH – 19.375")/2 (XX DOORS)
D.L.O. HEIGHT = FRAME HEIGHT – 10.875"

MAXIMUM DESIGN LOAD RATING	= + 60.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER)	– 70.0 PSF

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

Sealed: 10/5/2020

FL #25667

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revisions:			
no	date	by	description

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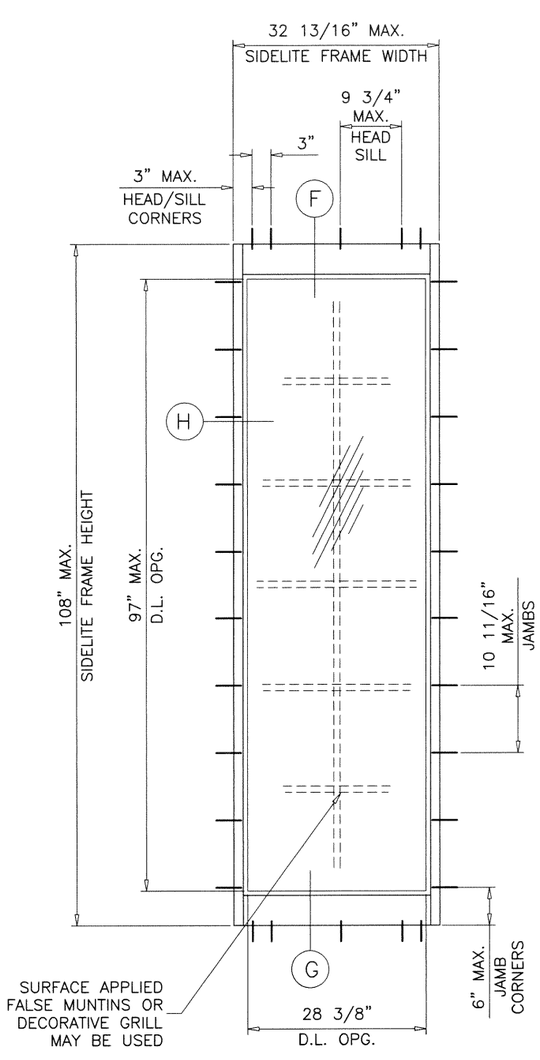
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:

drawing no. W17–118

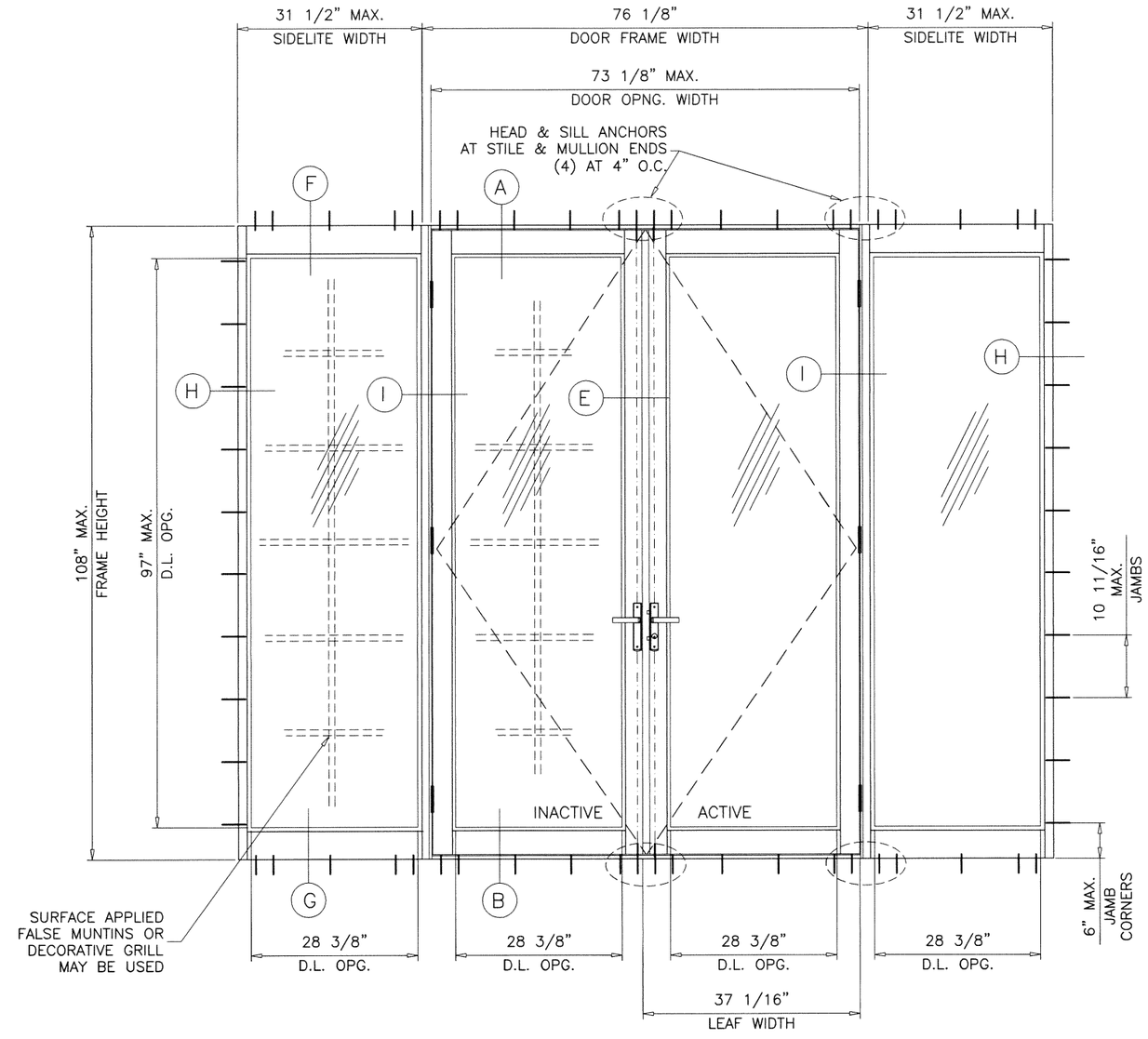
sheet 2 of 10



TYPICAL ELEVATION

(O)

STAND ALONE SIDELITE



TYPICAL ELEVATION

(O–XX–O)

GLASS D.L.O. DIMS.

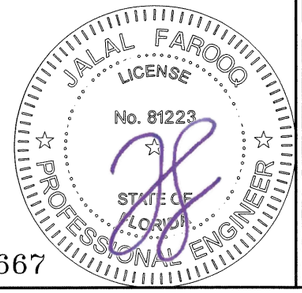
D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT – 11.000"
D.L.O. WIDTH (SIDELITE) = FRAME WIDTH – 4.438"

MAXIMUM DESIGN LOAD RATING	= + 60.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER)	– 70.0 PSF

NOTE:
FOR DOORS CAPACITIES SEE SHEET 2.
FOR SIDELITE MULLION CAPACITIES SEE SHEET 4.
LOWER VALUES FROM DOOR OR SIDELITE CHART WILL APPLY TO ENTIRE SYSTEM.

Sealed: 10/5/2020

FL #25667



afc
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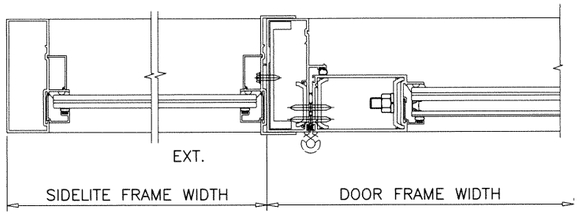
W17–118

sheet 3 of 10

SIDELITE MULLION CAPACITY – PSF SIDELITES WITH SINGLE OR DOUBLE LEAF DOORS (SEE NOTE BELOW)			
SIDELITE FRAME WIDTH INCHES	SIDELITE FRAME HEIGHT INCHES	MULLION W/ REINF.	
		EXT.(+)	INT.(–)
24	80	60.0	70.0
28		60.0	70.0
32		60.0	70.0
36		60.0	70.0
24	84	60.0	70.0
28		60.0	70.0
32		60.0	70.0
36		60.0	70.0
24	96	60.0	70.0
28		60.0	70.0
32		60.0	70.0
36		60.0	70.0
24	108	60.0	70.0
28		60.0	70.0
32		60.0	67.0



NOTE:
FOR DOORS CAPACITIES SEE SHEET 2.
FOR SINGLE SIDELITE CAPACITY SEE SHEET 3.
FOR SIDELITE MULLION CAPACITIES SEE CHART ABOVE.
LOWER VALUES FROM DOOR, SIDELITE OR MULLION CHART WILL APPLY TO ENTIRE SYSTEM.

Sealed: 10/5/2020

FL #25667

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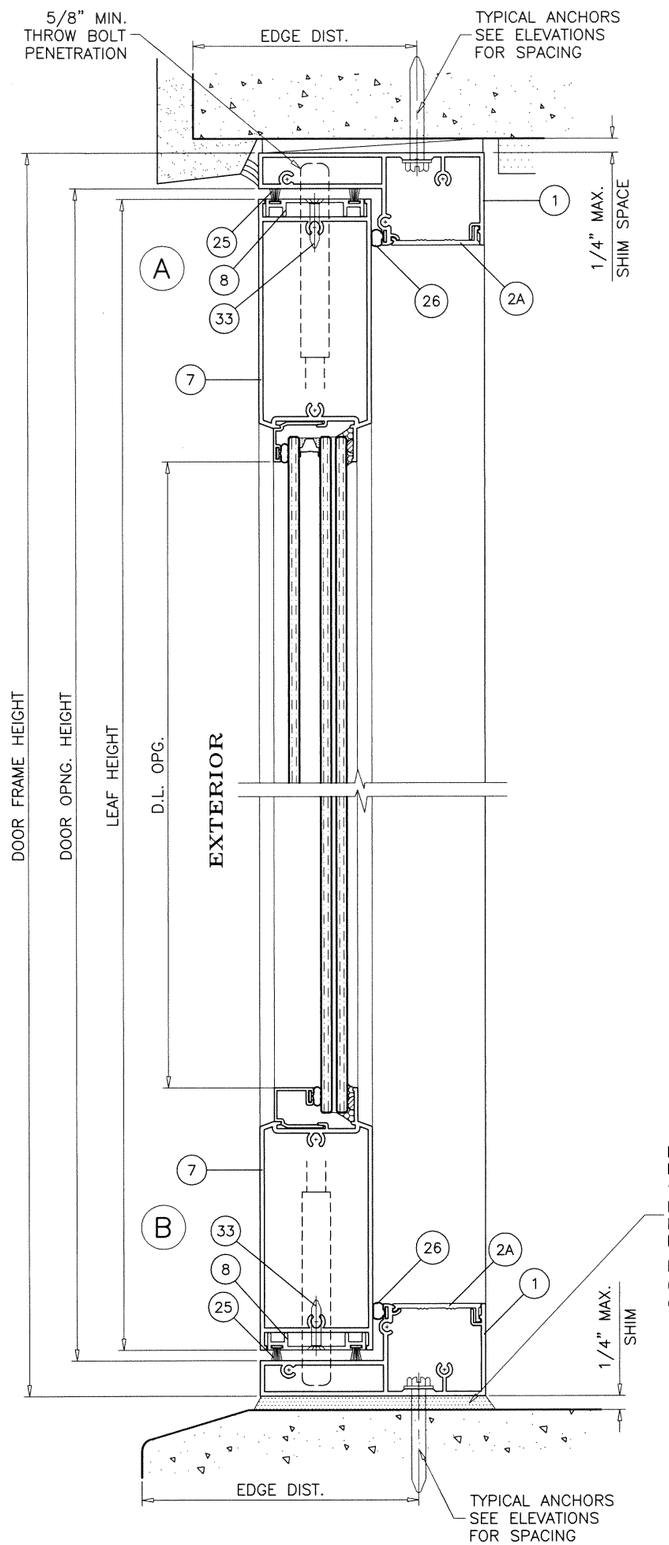
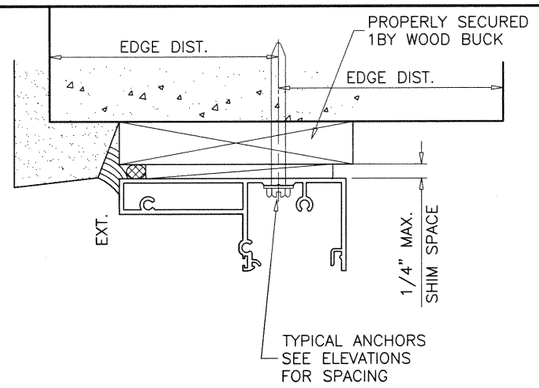
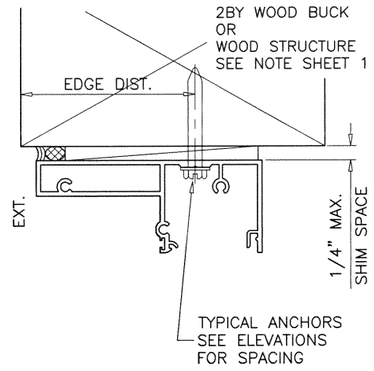
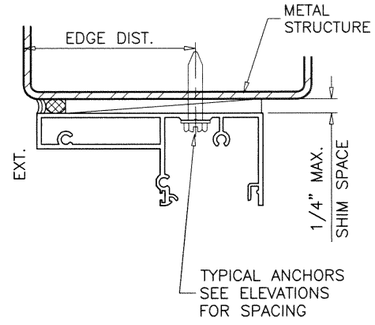
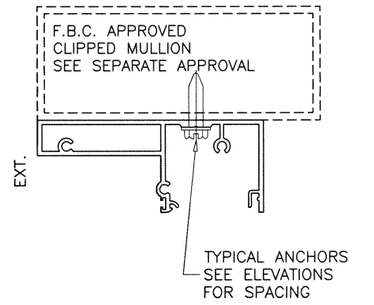
sheet 4 of 10











NOTE:
ANCHORS MUST GO THRU ANCHOR PADS
AS SHOWN ON FRAME MEMBERS.

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

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/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 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. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

DOOR DETAILS

Sealed: 10/5/2020

FL #25667

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COMP-ANL\W17-118ECO

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revisions:

no	date	by	description

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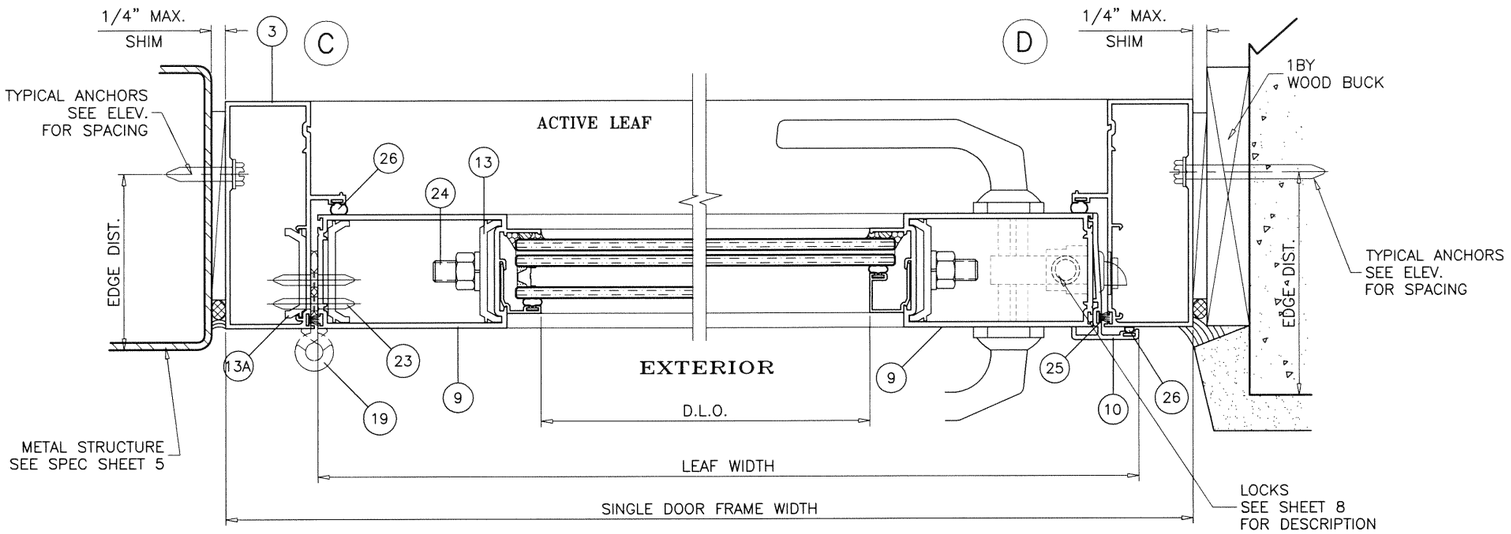
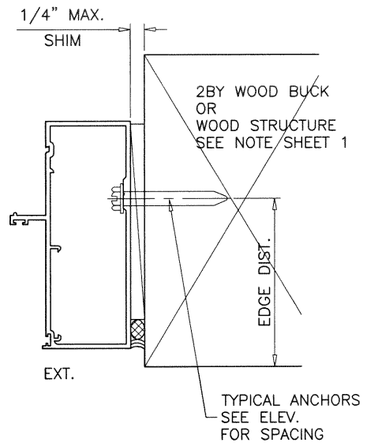
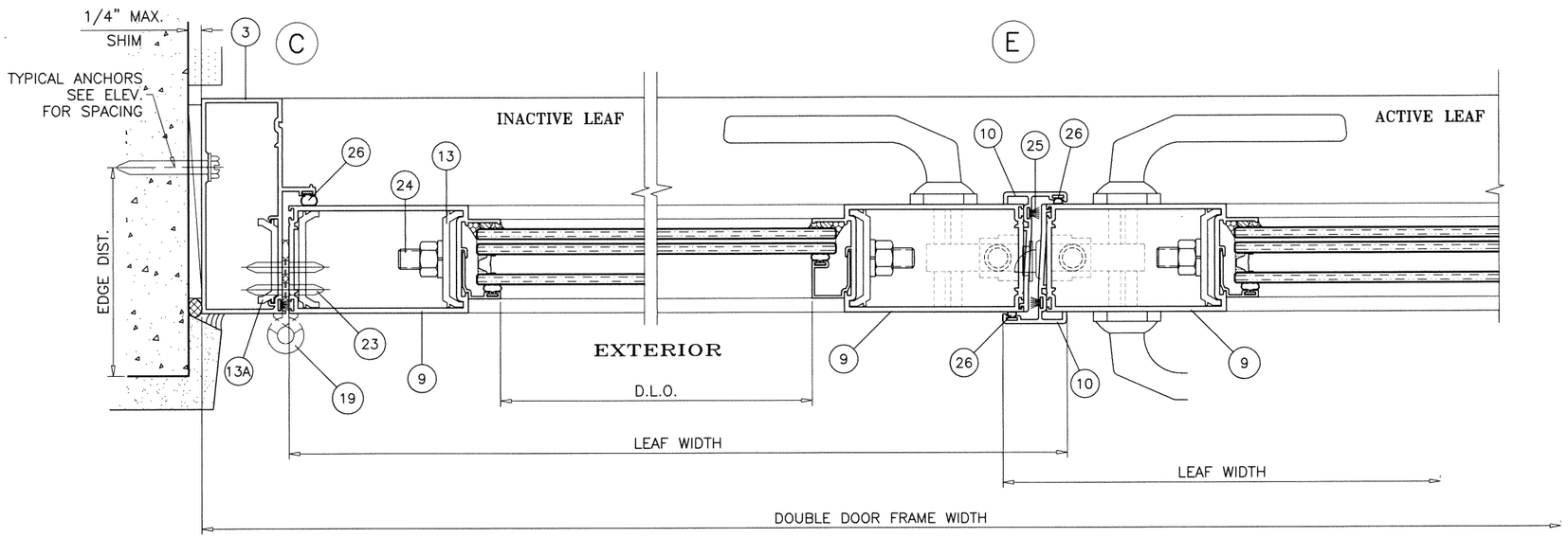
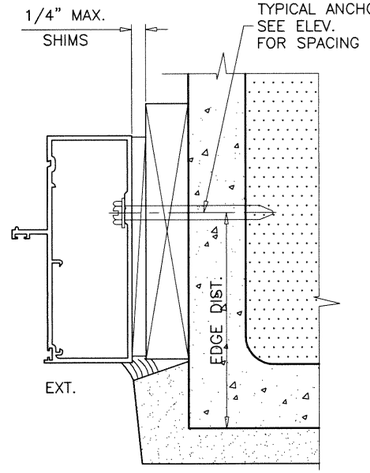
drawing no. W17-118





NOTE:
ANCHORS MUST GO THRU ANCHOR PADS
AS SHOWN ON FRAME MEMBERS.





DOOR DETAILS

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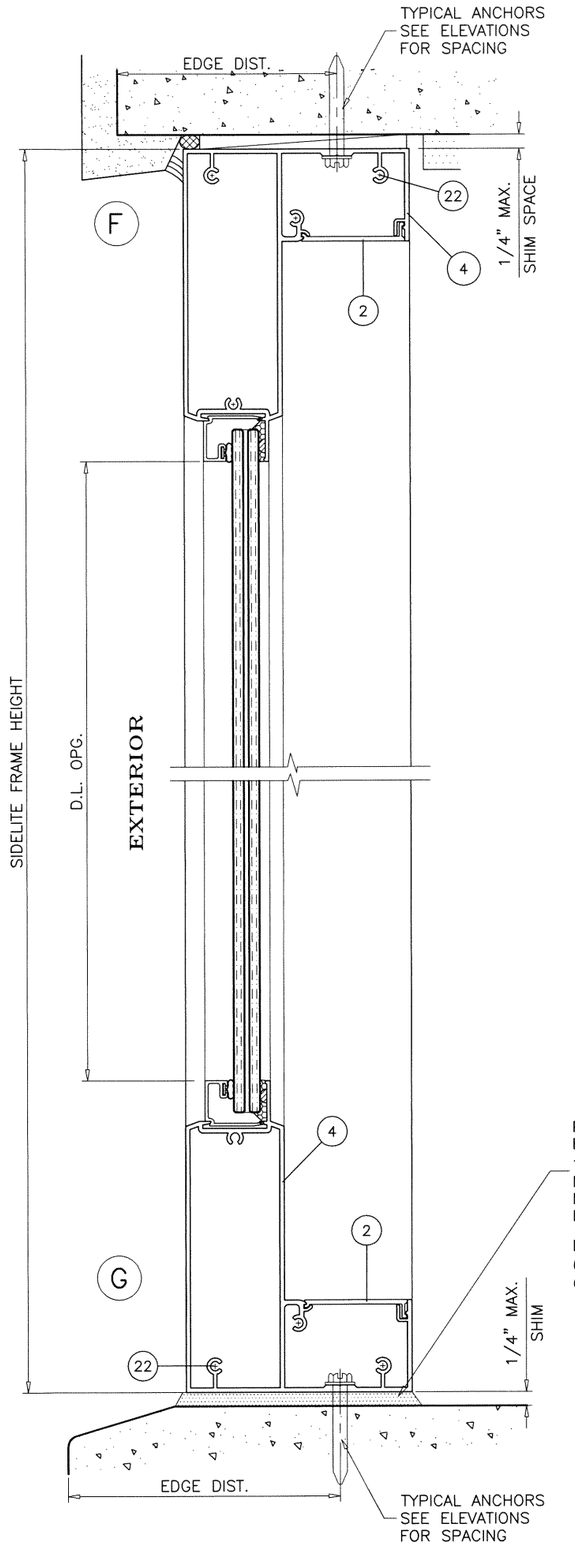
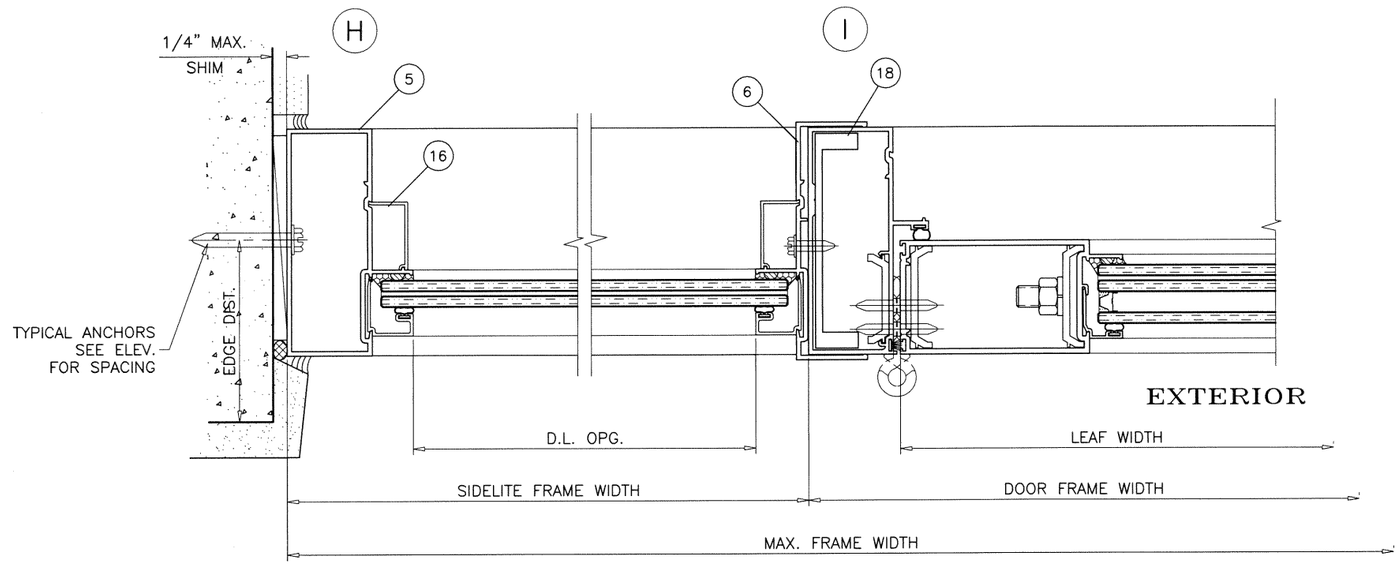
sheet 6 of 10



POURED & HARDENED
HIGH STRENGTH GROUT
f'c = 5000 PSI MIN.
NOT BY 'ECO WINDOWS'
MUST TRANSFER SHEAR
LOADS TO STRUCTURE

LOAD BEARING
(SOLID SHIMS
OPTIONAL TO GROUT)

NOTE:
ANCHORS MUST GO THRU ANCHOR PADS
AS SHOWN ON FRAME MEMBERS.



SIDELITE DETAILS

Sealed: 10/5/2020

FL #25667

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sheet 7 of 10

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E627	AS REQD.	DOOR FRAME HEAD/SILL	6063–T6	–
2	E602	AS REQD.	FRAME COVER (SIDELITE)	6063–T6	–
2A	E629	AS REQD.	FRAME COVER (DOOR)	6063–T6	–
3	E628	AS REQD.	DOOR FRAME JAMB	6063–T6	–
4	E604	AS REQD.	SIDELITE TOP & BOTTOM FRAME	6063–T6	–
5	E605	AS REQD.	SIDELITE FRAME JAMB	6063–T6	–
6	E606	AS REQD.	SIDELITE SLIP ON JAMB	6063–T6	–
7	E907	AS REQD.	LEAF TOP & BOTTOM RAIL	6063–T6	–
8	E915	AS REQD.	LEAF W'STRIP ADAPTER	6063–T6	–
9	E908	AS REQD.	LEAF STILE	6063–T6	–
10	E910	AS REQD.	ASTRAGAL ADAPTER	6063–T6	–
11	–	–	–	6063–T6	–
12	E909	AS REQD.	LEAF ALIGNMENT BRACKET	6063–T6	–
13	E?	AS REQD.	LEAF CLAMP	6063–T6	4–1/4" LONG
13A	E613	2/ HINGE	HINGE BACK–UP PLATE	6063–T6	10–1/2" LONG
14	E913	AS REQD.	GLAZING BEAD (LAM. GLASS)	6063–T6	–
14A	E912	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063–T6	–
16	E616	AS REQD.	SNAP COVER	6063–T6	–
18	–	1	SIDELITE MULLION REINFORCING	6063–T6	–
19	FD–107	3/ LEAF	BUTT HINGES	ALUMINUM	SULLIVAN & ASSOC.
22	#10 X 1–1/2"	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	HWH SMS
23	#10 X 3/4"	–	HINGE INSTALLATION FASTENERS	ST. STEEL	FH SMS
24	–	2/ LEAF	3/8" DIA. THREADED ROD	STEEL	–
25	W11323	AS REQD.	PILE W'STRIPPING	WOOL	ULTRAFAB
26	E20618–KN–3020	AS REQD.	BULB W'STRIPPING	SANTOPRENE	EPDM
27	E206	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
28	–	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE RUBBER CO.
33	#10 X 3/4"	2/ ADAPTER	ADAPTER FASTENERS, AT 5" FROM ENDS	ST. STEEL	FH SELF DRILLING
34	–	2/ LITE	SETTING BLOCK, 1/4" X 1/2" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 80±5

LOCKS:

ACTIVE LEAF:

4 POINT LOCK ASSEMBLY DL01–6007 BY 'INTERLOCK USA INC.'
(2) LOCKING POINTS ENGAGING AT INACTIVE LEAF AT STRIKE PLATE
1/2" DIA. THROW BOLT (1) AT TOP ENGAGING FRAME HEAD
AND (1) AT BOTOOM ENGAGING FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK HANDLE LOCATED AT 42–1/2" FROM BOTTOM

INACTIVE LEAF:

2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.'
1/2" DIA. THROW BOLTS AT TOP AND BOTTOM ENGAGING FRAME
HEAD AND FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK LOCATED AT 42–1/2" FROM BOTTOM

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:

7–1/2" LONG ALUMINUM BUTT HINGES BY 'SULLIVAN & ASSOC.'
AT 11" FROM TOP AND BOTTOM AND ONE AT MIDSPAN OF LEAF
FASTENED TO FRAME WITH
(6) #10 X 3/4" FH SELF DRILLING SCREWS
FASTENED TO LEAF WITH
(5) #10 X 3/4" PH SELF DRILLING SCREWS

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH
SCHNEE MOREHEAD JM5504 SEALANT.

Sealed: 10/5/2020

FL #25667

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TEL. (305) 264-8100

COMP–ANL\W17–118ECO

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revisions:

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dr. by: TARIQ
chk. by:

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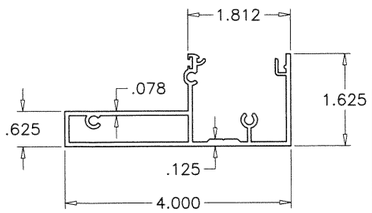
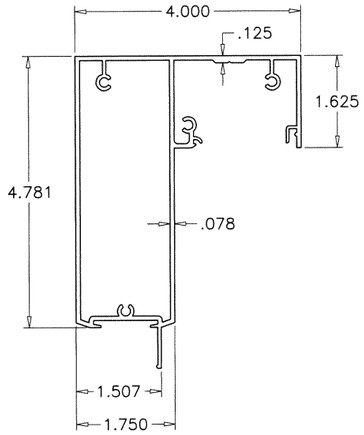
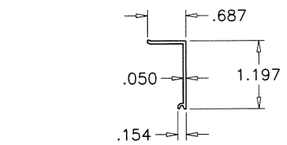
sheet 8 of 10



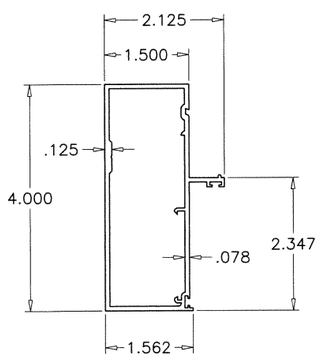
1 DOOR FRAME HEAD/SILL



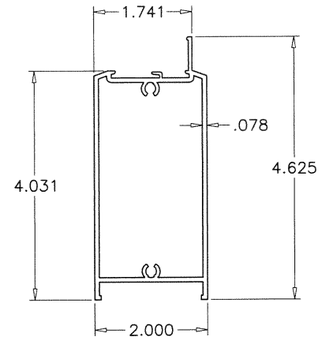
4 SIDELITE TOP & BOTTOM FRAME



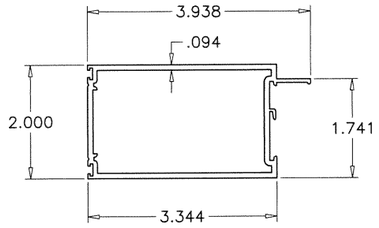
16 SNAP COVER



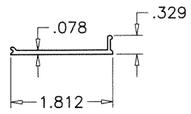
3 DOOR FRAME JAMB



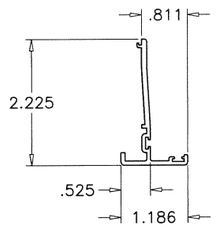
7 LEAF TOP/BOTTOM RAIL



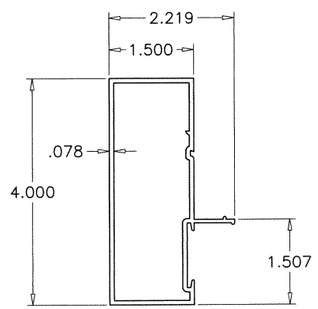
9 LEAF STILE



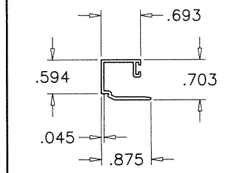
2 FRAME COVER (SIDELITE)



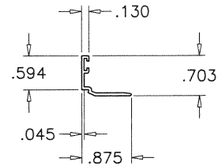
8 ASTRAGAL W'STRIP ADAPTER



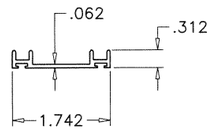
5 SIDELITE FRAME JAMB



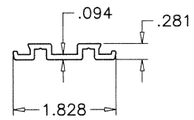
14 GLAZING BEAD
LAM. GLASS



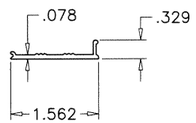
14A GLAZING BEAD
INSUL. LAM. GLASS



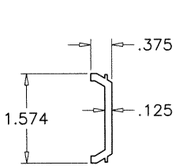
8 LEAF W'STRIP ADAPTER



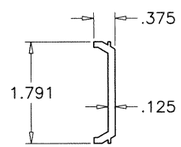
12 LEAF ALIGNMENT BRACKET



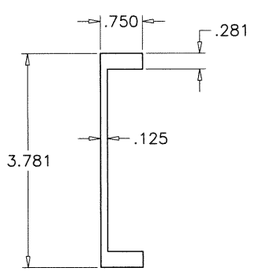
2A FRAME COVER (DOOR)



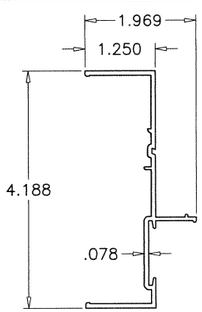
13A HINGE BACK-UP PLATE



13 LEAF CLAMP



18 SIDELITE MULLION REINFORCING



6 SIDELITE SLIP ON JAMB

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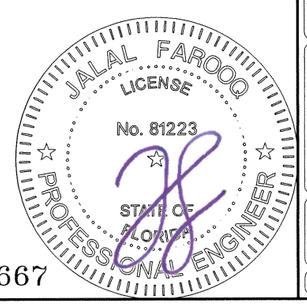
FL #25667



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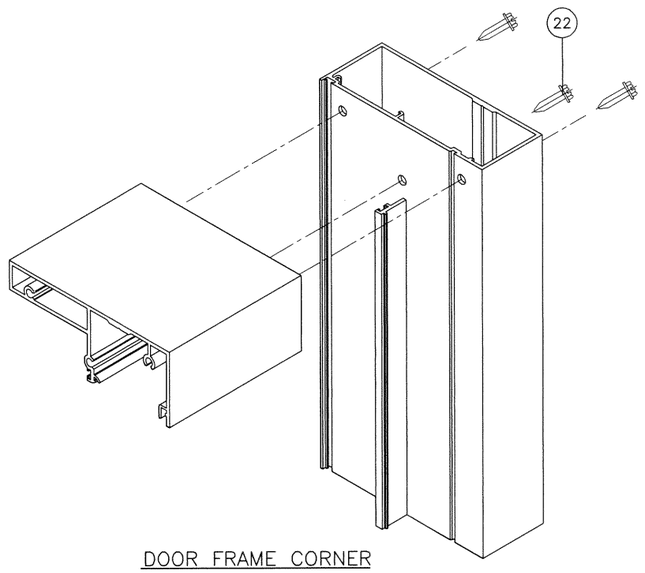
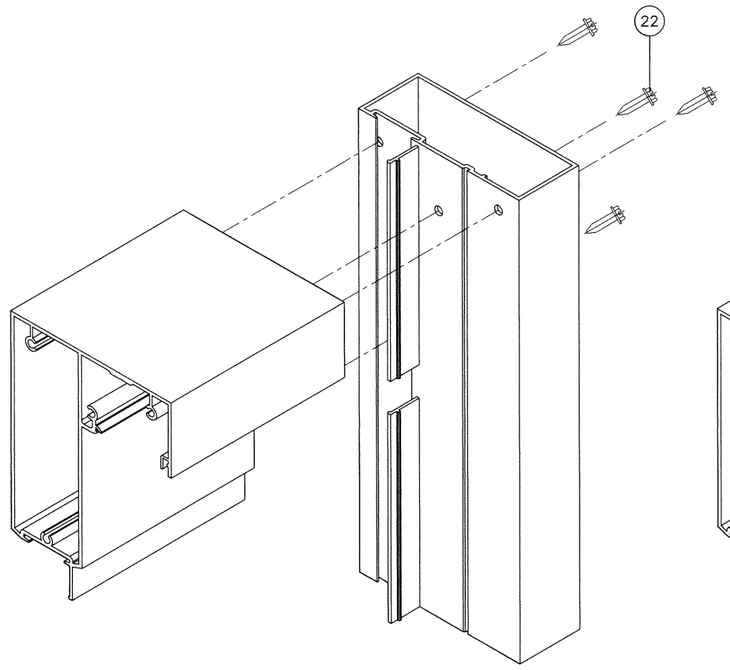
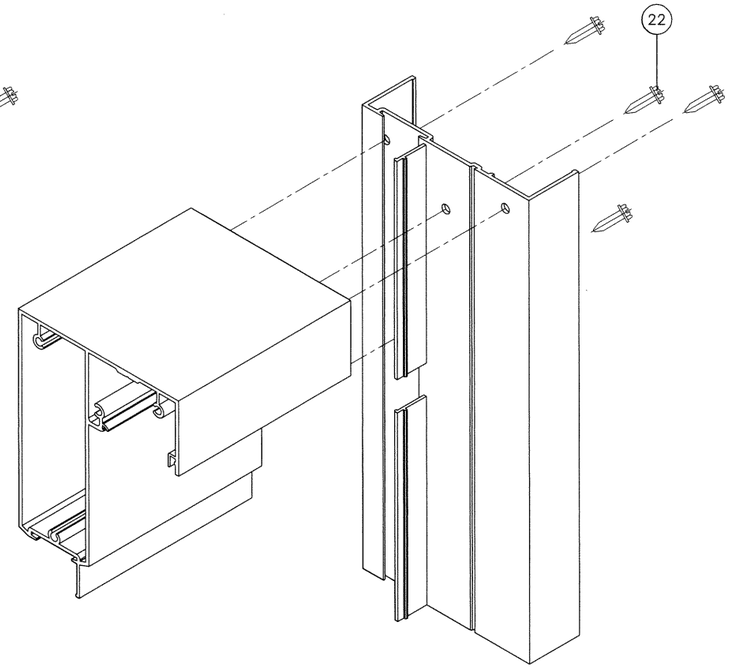
sheet 9 of 10



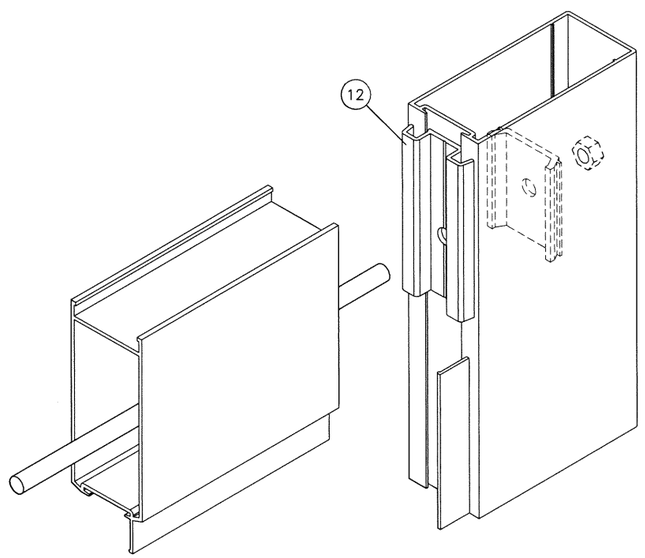
DOOR FRAME CORNER



SIDELITE FRAME CORNER



SIDELITE MULLION SLIP ON JAMB CORNER



LEAF CORNER

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FL #25667

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