

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

ES-EL300
ALUMINUM OUTSWING ENTRANCE DOOR

APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF DOORS
WITH OR WITHOUT SIDELITES.
SIDE LITES CAN BE ON ONE OR BOTH SIDES OF DOOR.

DOORS WITH STD. THRESHOLD (ES-EL300-002) APPROVED FOR
INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.
DOORS WITH ADA THRESHOLD (ES-EL300-03) NOT APPROVED FOR
WATER INFILTRATION RESISTANCE.
SEE SHEET 5 FOR DETAILS.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH 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 LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL
OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2023/2026 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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED
ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE
USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** FOR SINGLE (X) AND DOUBLE (XX) DOOR CAPACITIES
SEE SHEETS 2 & 2.1.
- STEP 3** FOR SIDELITE PANEL (O) CAPACITY SEE SHEETS 3 & 3.1.
- STEP 4** FOR SIDELITE COMBINATION WITH DOOR
SEE MULLION CAPACITY CHART ON SHEET 4.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3
AND 4 SHALL APPLY TO ENTIRE SYSTEM.

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET
CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES.
COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

GLASS TYPES 'B' & 'B1' COMPLY WITH
REQUIREMENTS OF ANSI Z97.1.
SAFEGUARD REQUIREMENTS TO BE VERIFIED.

Sealed: 7/10/2026

FL #22551



- 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.

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

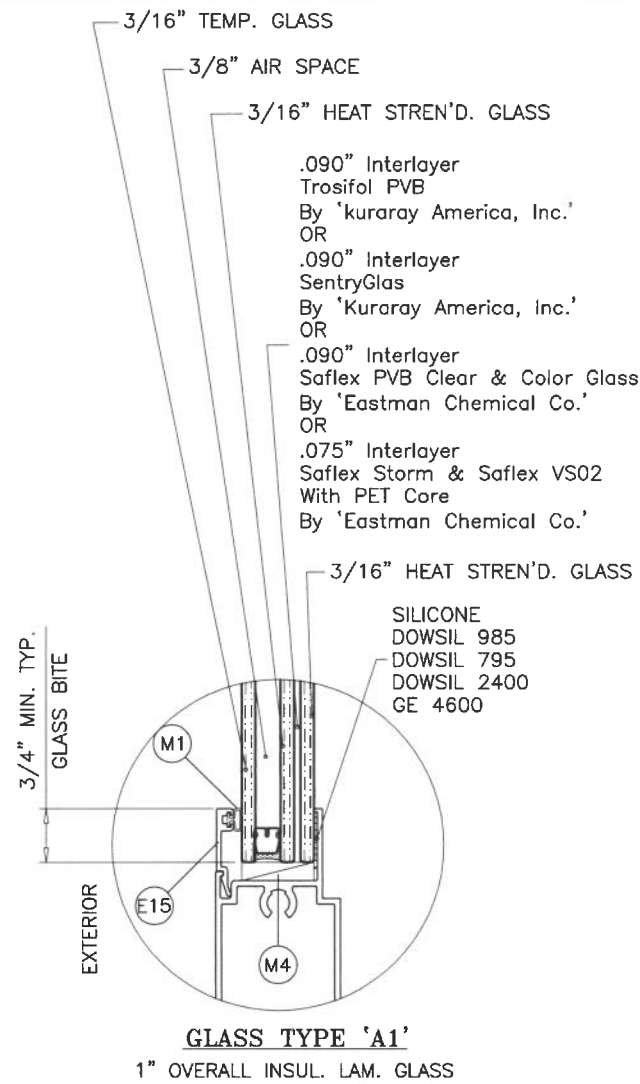
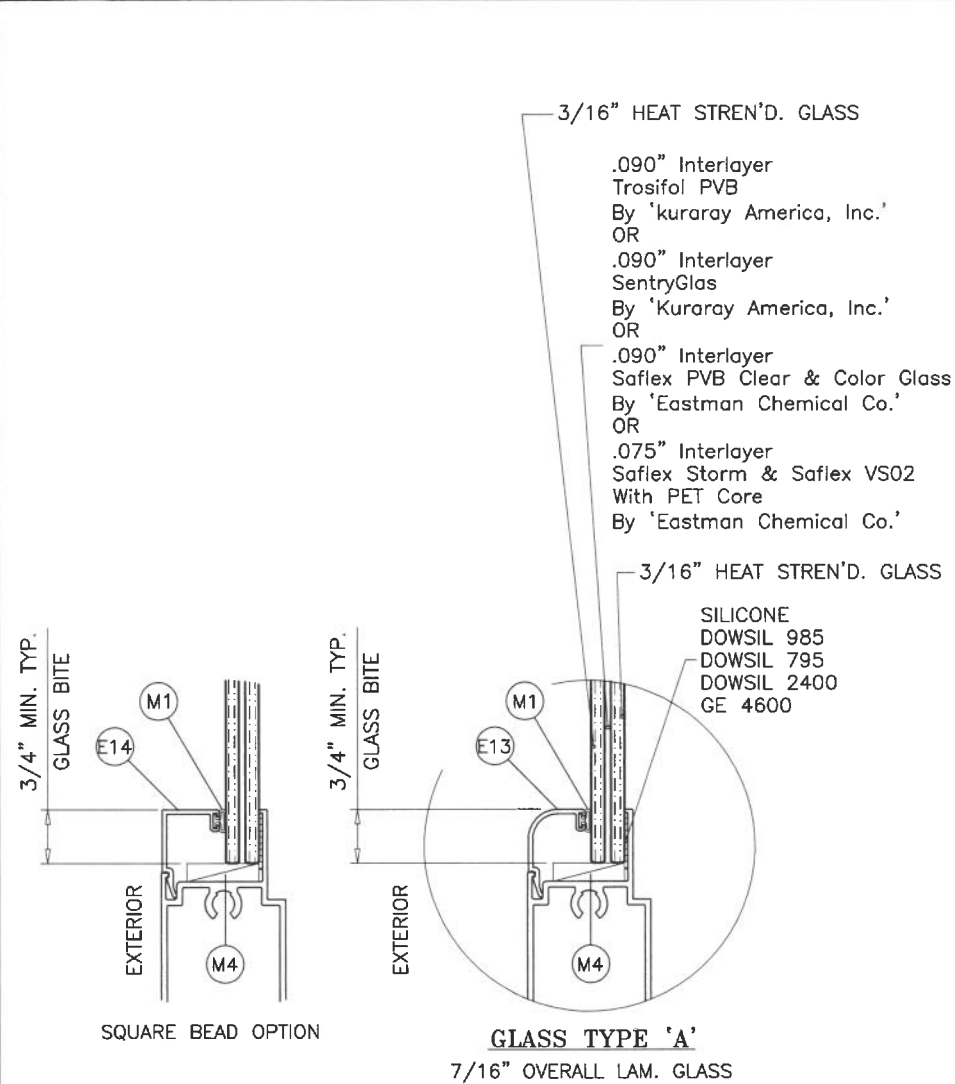
ES-EL300 ALUMINUM OUTSWING DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		date		by		description	
no	date	no	date	no	date	no	date
C	10.16.20	D	06.21.23			UPDATED TO 2020 FBC	
E	02.03.25	F	07.01.26			GENERAL REVISION	
						UPDATED TO 2026 FBC	

date: 11-20-16
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:
drawing no.
W16-71
sheet 1 of 12

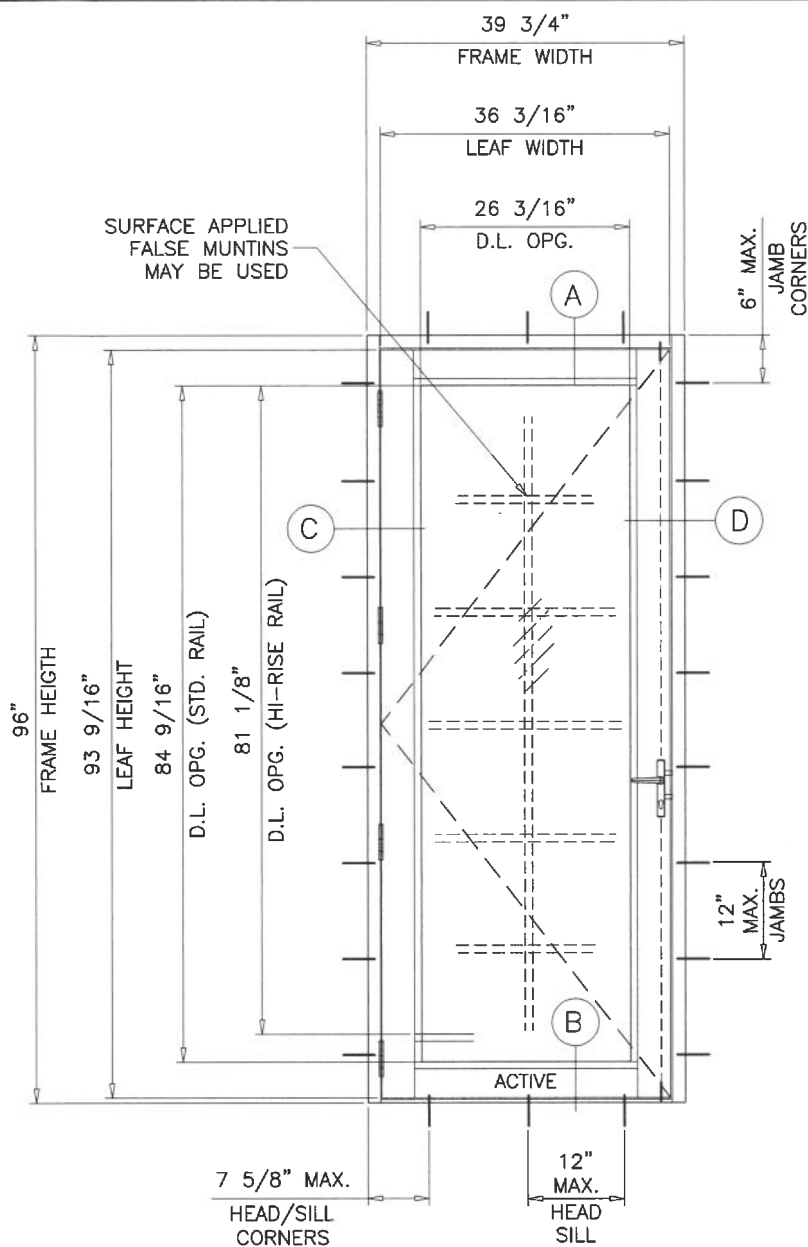
COMP-ANL\W16-71ES



3/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

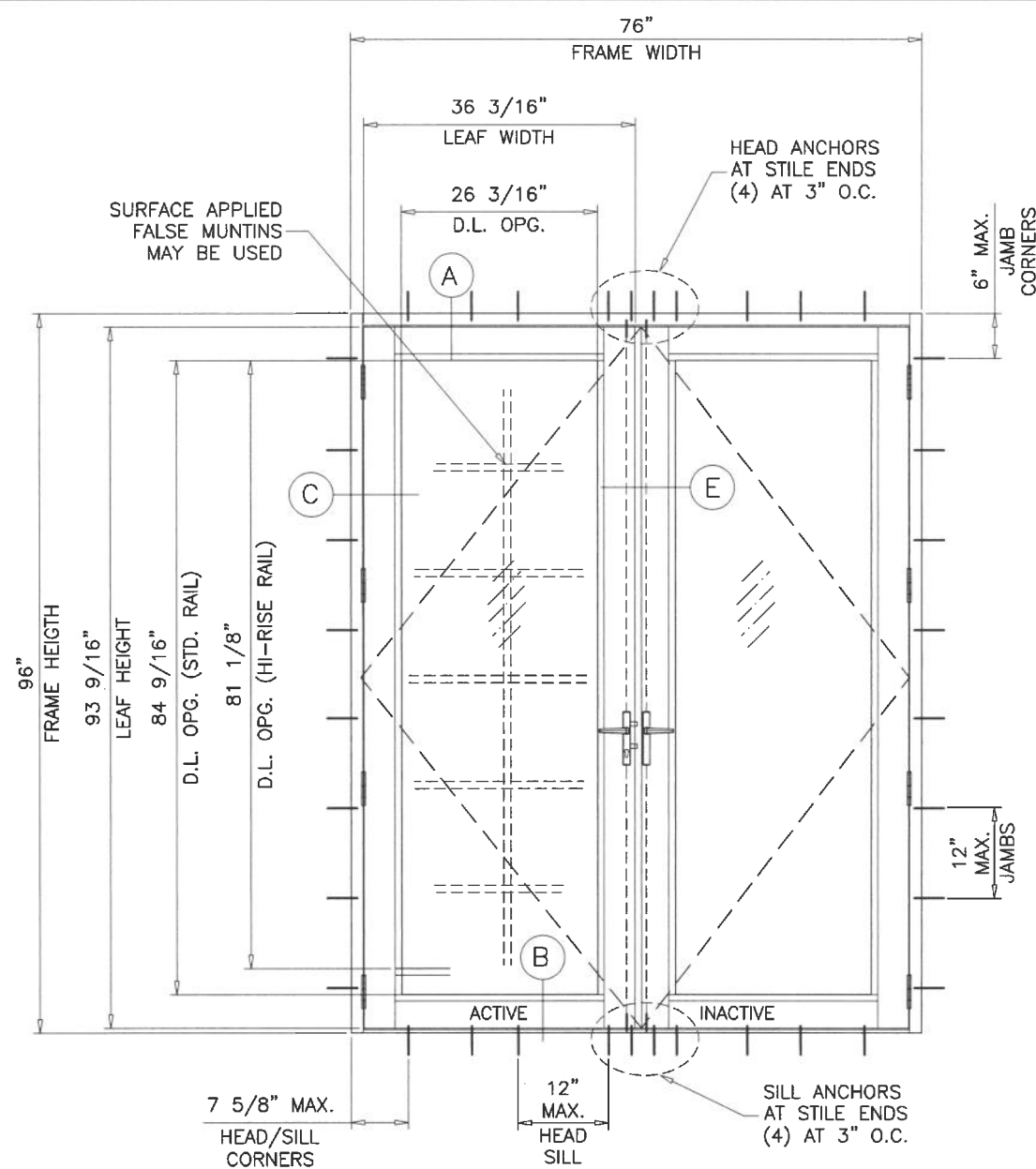
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STD. SILL
TYPICAL ELEVATION
 (X)

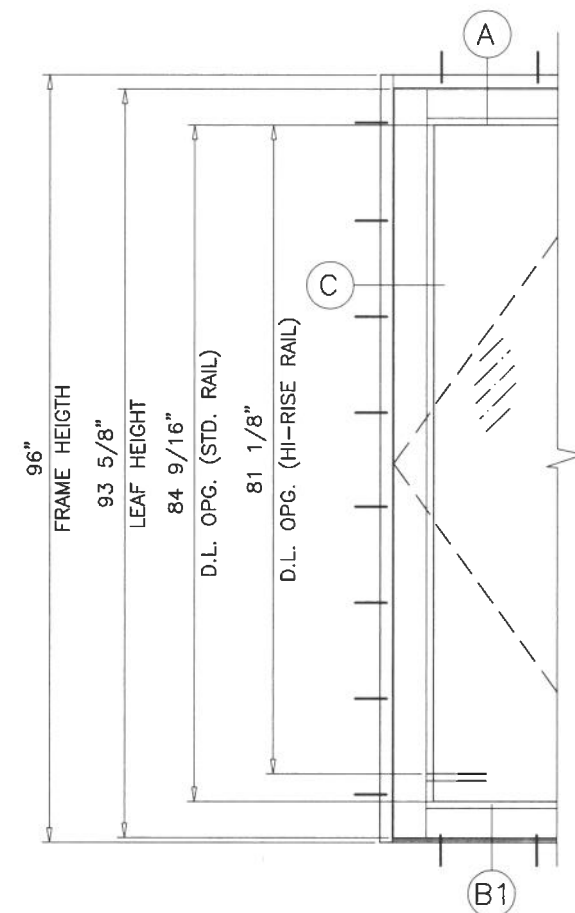
SINGLE DOORS LOAD CAPACITY - PSF GLASS TYPES 'A', 'A1', 'B' & 'B1'						
FRAME		LEAF		THRESHOLD TYPES	EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT			
39-3/4"	96"	36-3/16"	93-9/16"	STD.	80.0	80.0
39-3/4"	96"	36-3/16"	93-5/8"	ADA	80.0	80.0



STD. SILL
TYPICAL ELEVATION
 (XX)

DOUBLE DOORS LOAD CAPACITY - PSF GLASS TYPES 'A', 'A1', 'B' & 'B1'						
FRAME		LEAF		THRESHOLD TYPES	EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT			
76"	96"	36-3/16"	93-9/16"	STD.	80.0	80.0
76"	96"	36-3/16"	93-5/8"	ADA	80.0	80.0

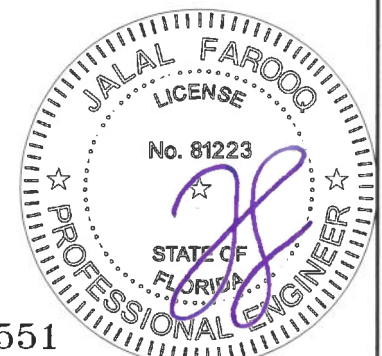
GLASS D.L.O. FORMULAE:
 D.L.O. WIDTH = FRAME WIDTH - 13.563" (X DOORS)
 = (FRAME WIDTH - 23.625")/2 (XX DOORS)
 D.L.O. HEIGHT = FRAME HEIGHT - 11.438" (STD. BOT. RAIL)
 = FRAME HEIGHT - 14.875" (HI-RISE BOT. RAIL)



SINGLE OR DOUBLE DOORS
WITH ADA SILL

NOTE:
 GLASS CAPACITIES ARE BASED ON
 ASTM E1300-16 (3 SEC. GUSTS)
 AND FLORIDA BUILDING COMMISSION
 DECLARATORY STATEMENT DCA05-DEC-219

FL #22551



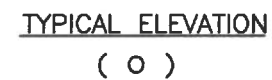
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date:	11-20-16	scale:	1/2"=1'-0"	dr. by:	TARIQ	chk. by:		drawing no.	W16-71
									sheet 2 of 12

COMP-ANL\W16-71ES

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SIDELITE WIDTH = FRAME WIDTH - 1-5/8"
(SEE CHART ON SHEET 4)

148 1/16" FRAME WIDTH

34 1/8" PANEL WIDTH

36 3/16" LEAF WIDTH

34 1/8" PANEL WIDTH

24 1/8" D.L. OPG.

26 3/16" D.L. OPG.

24 1/8" D.L. OPG.

HEAD/SILL ANCHORS (4) AT STILE ENDS (4) AT 3" O.C.

6" MAX. JAMB CORNERS

96" SIDELITE FRAME HEIGHT

93 9/16" SIDELITE PANEL HEIGHT

84 9/16" D.L. OPG. (STD. RAIL)

81 1/8" D.L. OPG. (HI-RISE RAIL)

7 5/8" MAX. HEAD/SILL CORNERS

12" MAX. HEAD SILL

3" 6" 3"

HEAD/SILL ANCHORS (4) AT MULLION ENDS

ACTIVE INACTIVE

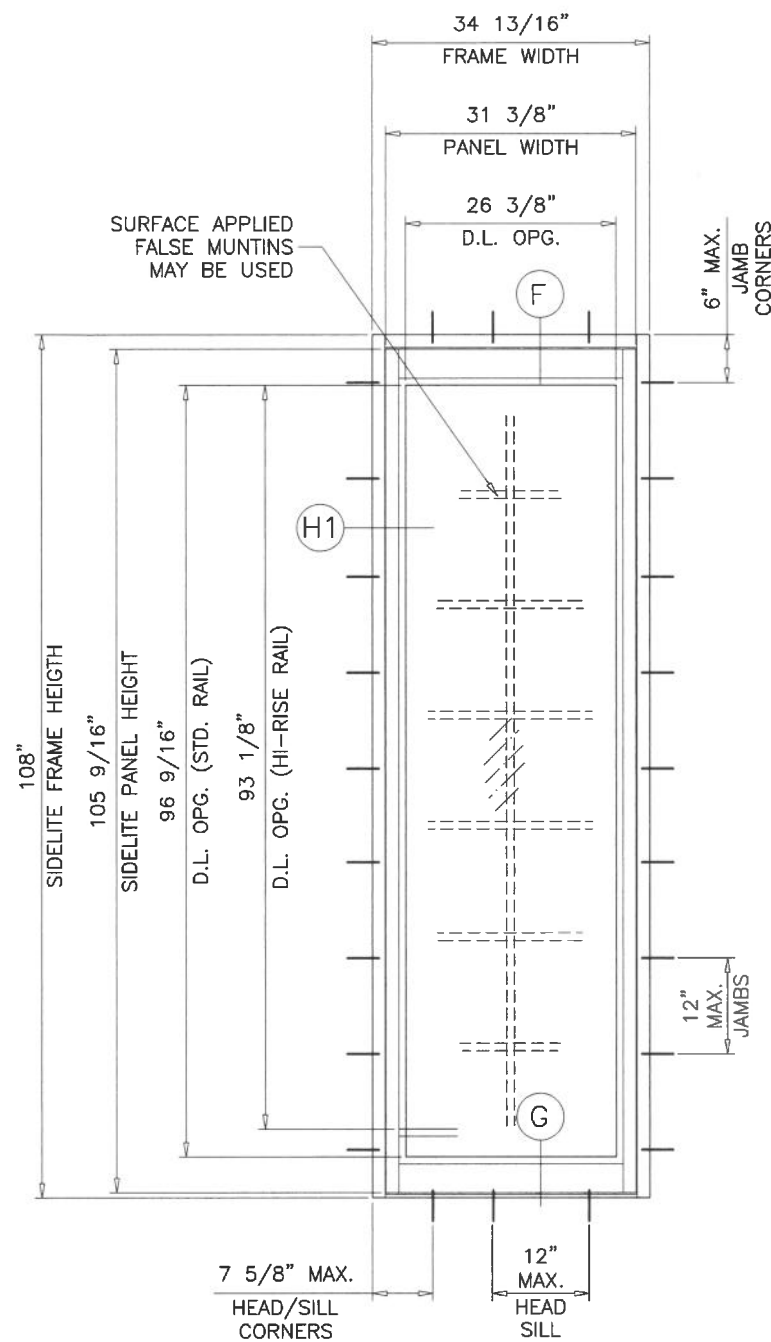
SEE CHART SHEET 4

TYPICAL ELEVATION
(O-XX-O)

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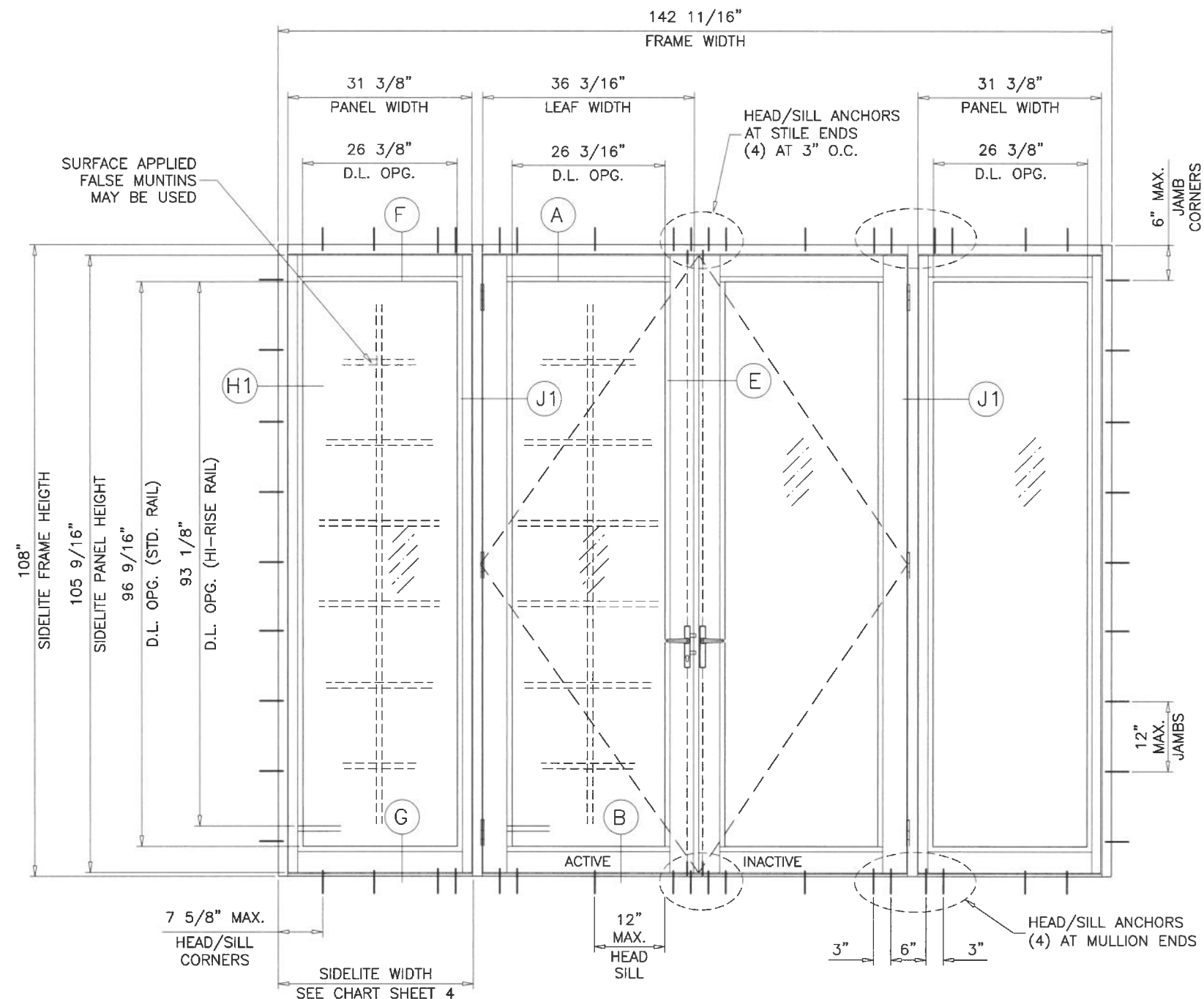
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TYPICAL ELEVATION
(O)

SIDELITE LOAD CAPACITY - PSF OR STAND ALONE STATIONARY PANEL (O) GLASS TYPES 'B' & 'B1'						
FRAME		PANEL		THRESHOLD TYPES	EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT			
34-13/16"	108"	31-3/8"	105-9/16"	STD.	80.0	80.0
34-13/16"	108"	31-3/8"	105-5/8"	ADA	80.0	80.0
34-13/16"	92"	31-3/8"	91-9/16"	STD.	80.0	80.0
34-13/16"	92"	31-3/8"	91-5/8"	ADA	80.0	80.0

SIDELITE WIDTH = FRAME WIDTH - 1-5/8"
(SEE CHART ON SHEET 4)



TYPICAL ELEVATION
(O-XX-O)

NOTE:
THE FRAME AREA OF ALTERNATE SIZE MUST NOT
EXCEED TESTED FRAME AREA = 98.7 SQ. FT.

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D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT - 11.438" (STD. BOT. RAIL)
= FRAME HEIGHT - 14.875" (HI-RISE BOT. RAIL)
D.L.O. WIDTH (SIDE LITE) = FRAME WIDTH - 8.438"

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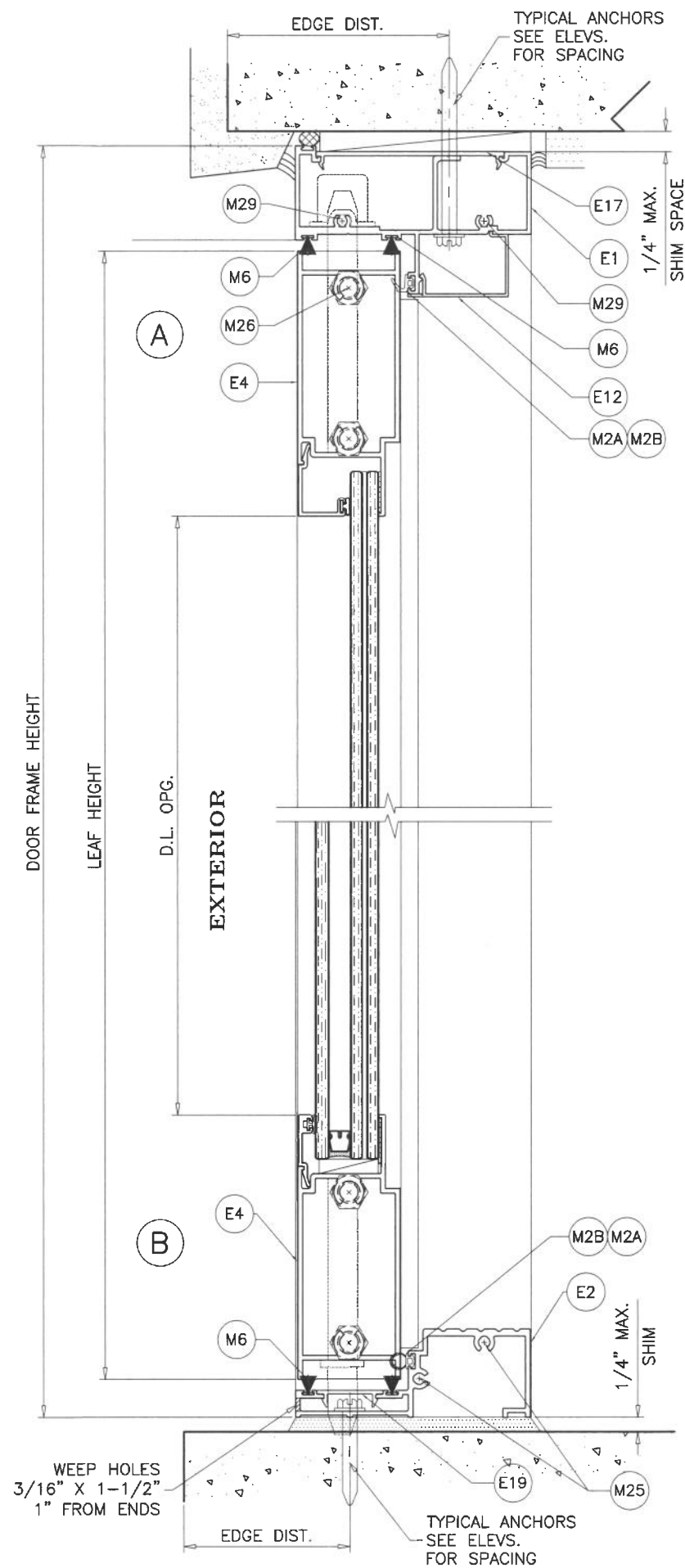
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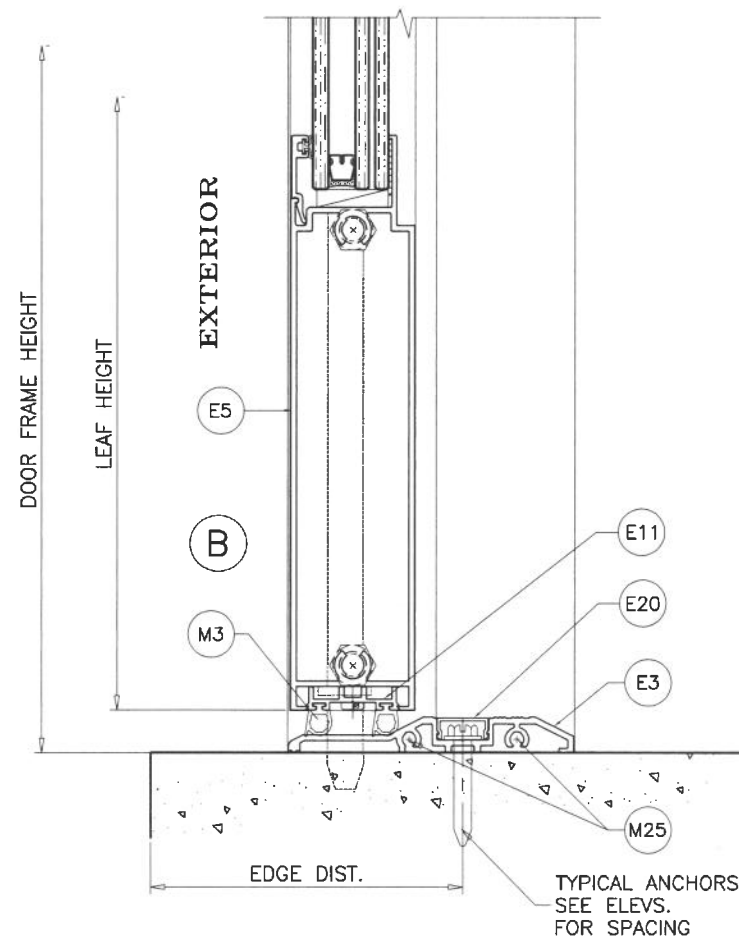
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drawing no.
W16-71
sheet 3.2 of 12



STD. THRESHOLD
APPROVED FOR WATER INFILTRATION RESISTANCE



ADA THRESHOLD
NOT APPROVED FOR WATER INFILTRATION RESISTANCE

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DOOR DETAILS

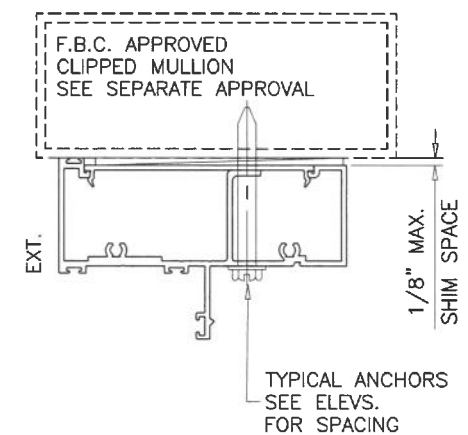
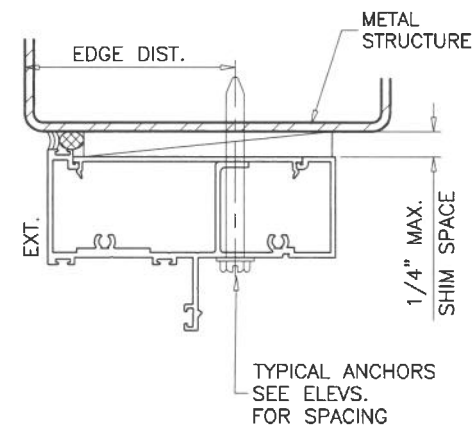
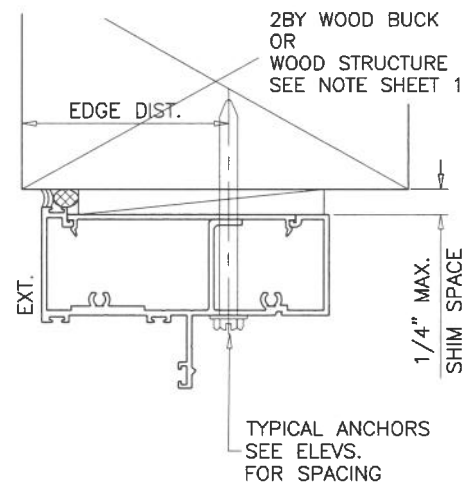
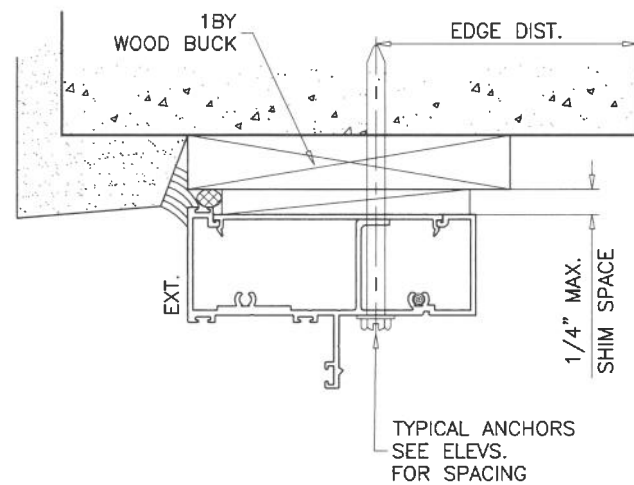


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drawing no. W16-71	
sheet 5 of 12	



WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. 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' ($F_u=164$ KSI, $F_y=148$ KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES

1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS

1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)

1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS

1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 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. ($F_y = 36$ 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.

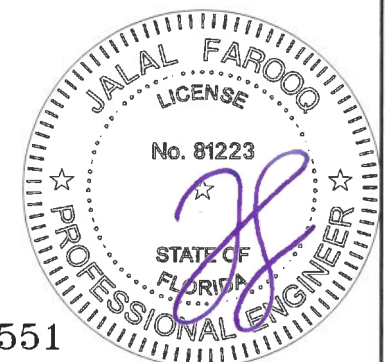
WOOD AT HEAD OR JAMBS SG = 0.55 MIN.

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

C-90 GROUT FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

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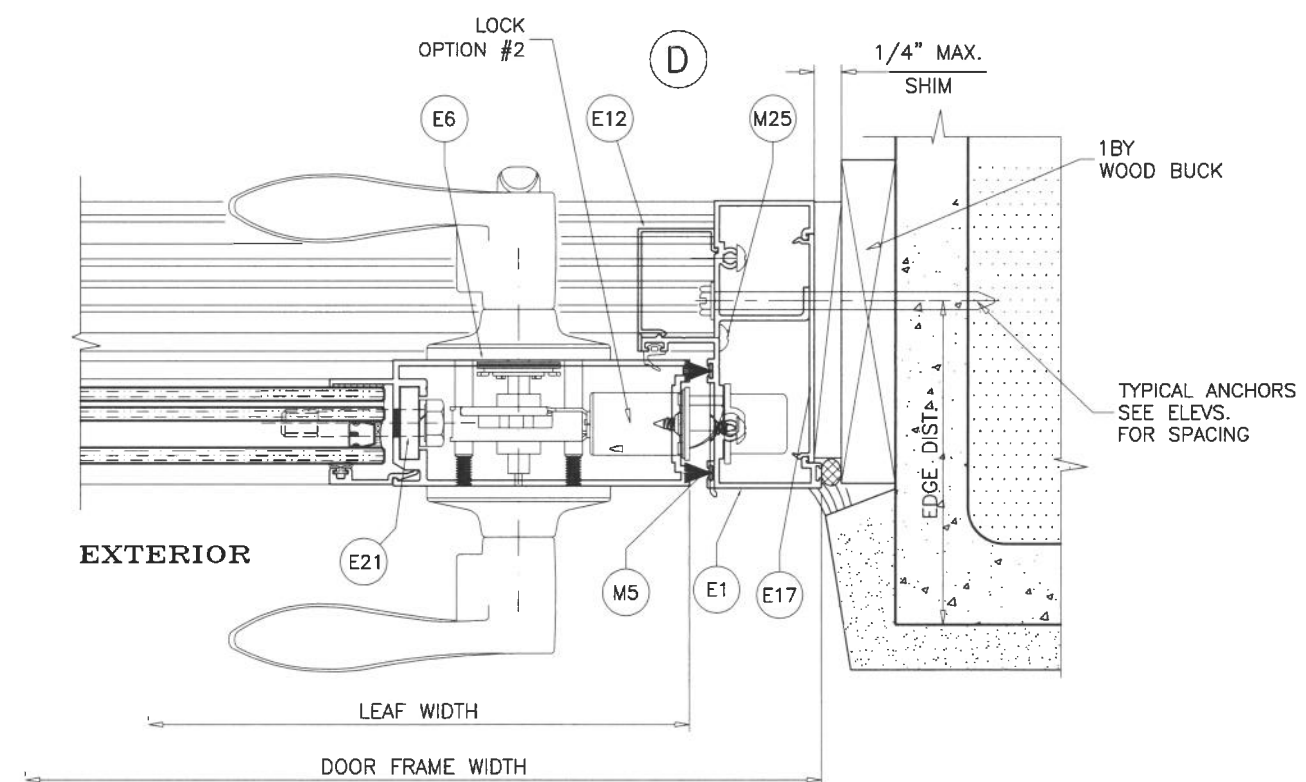
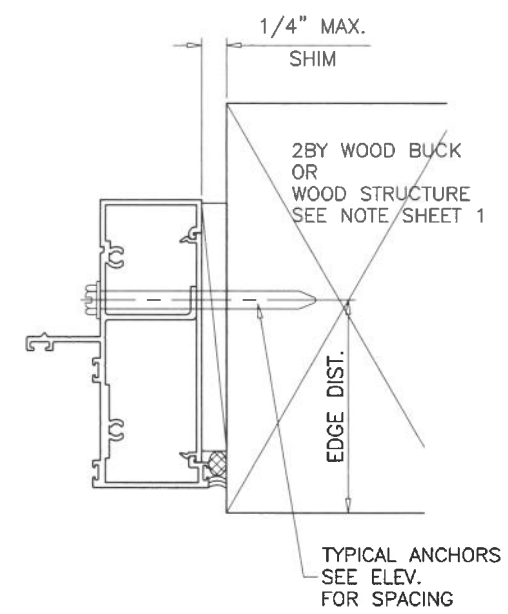
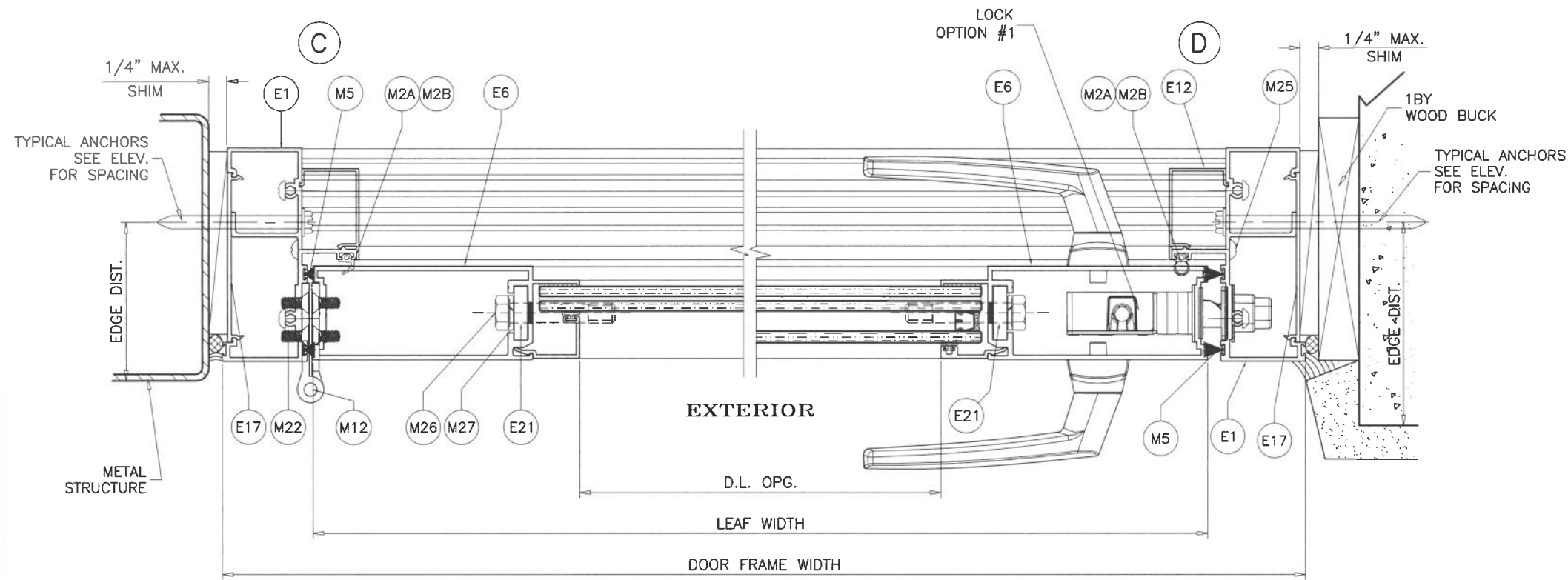
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W16-71

sheet 6 of 12

COMP-ANL/W16-71ES



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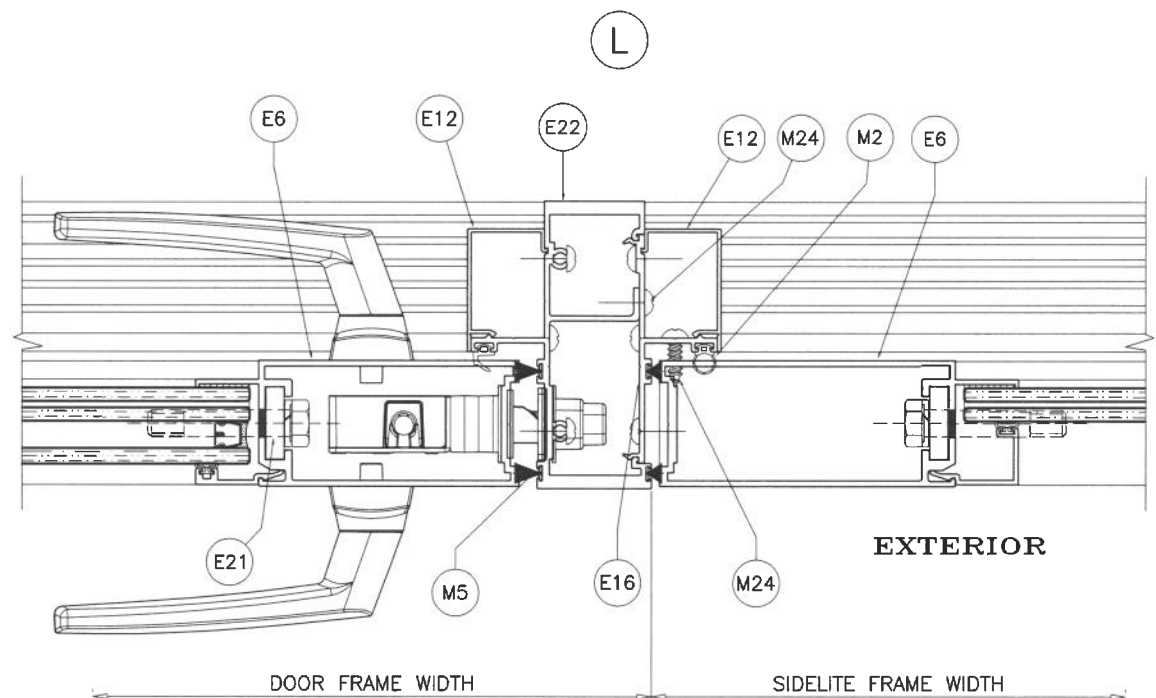
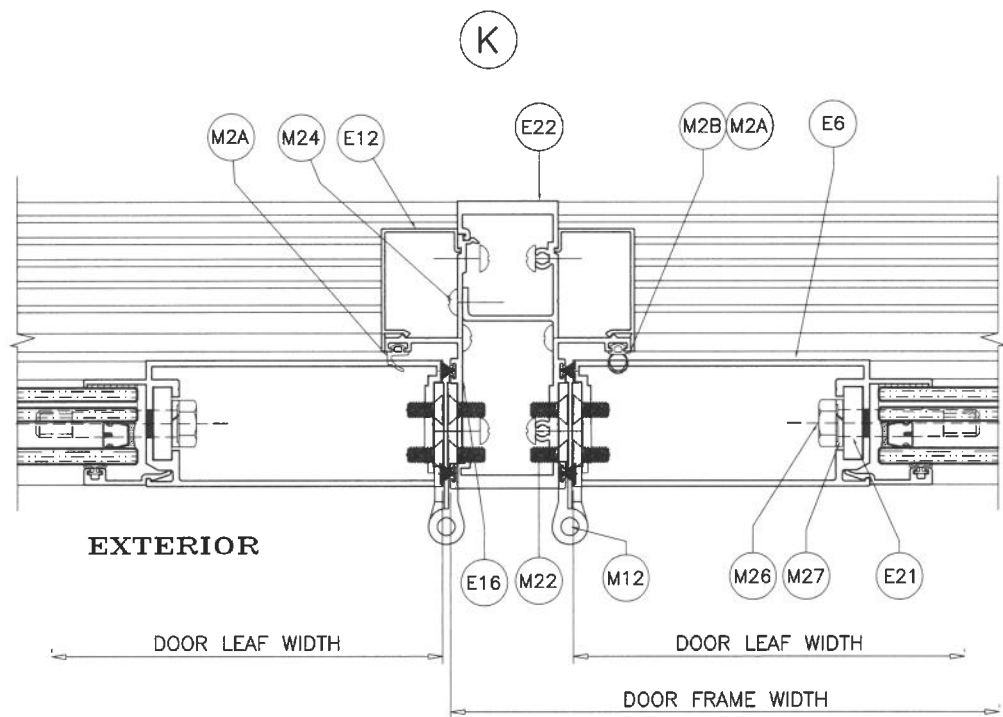
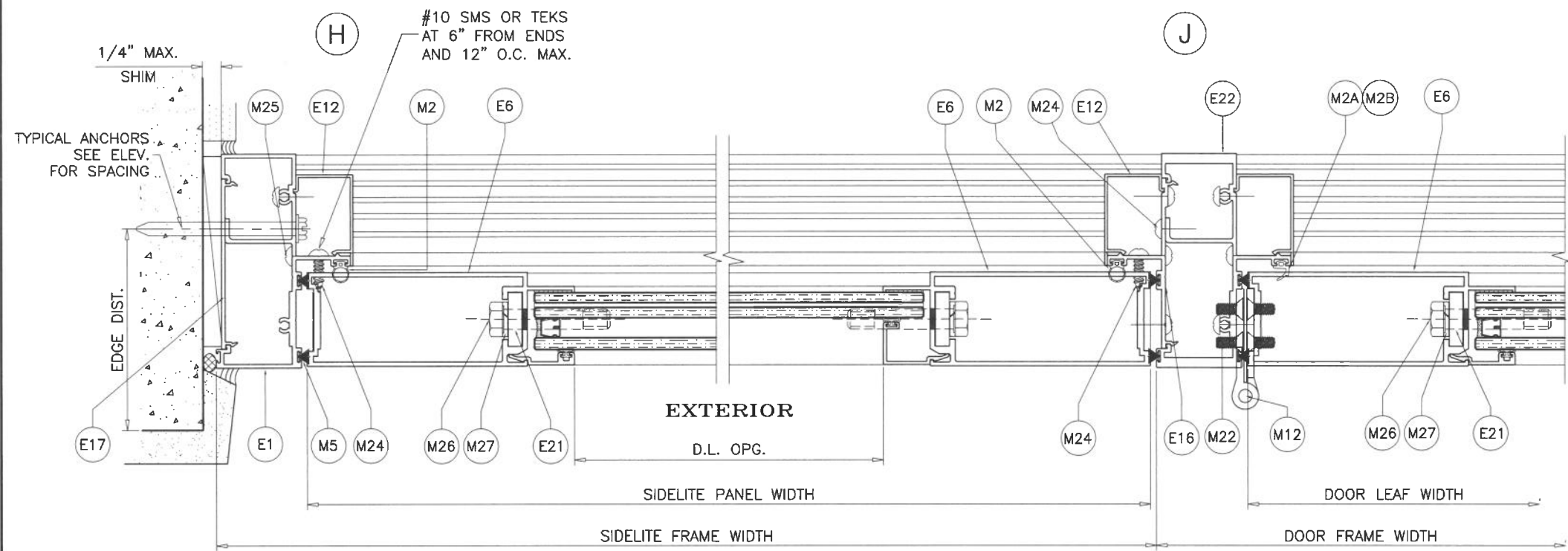
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W16-71
sheet 7 of 12



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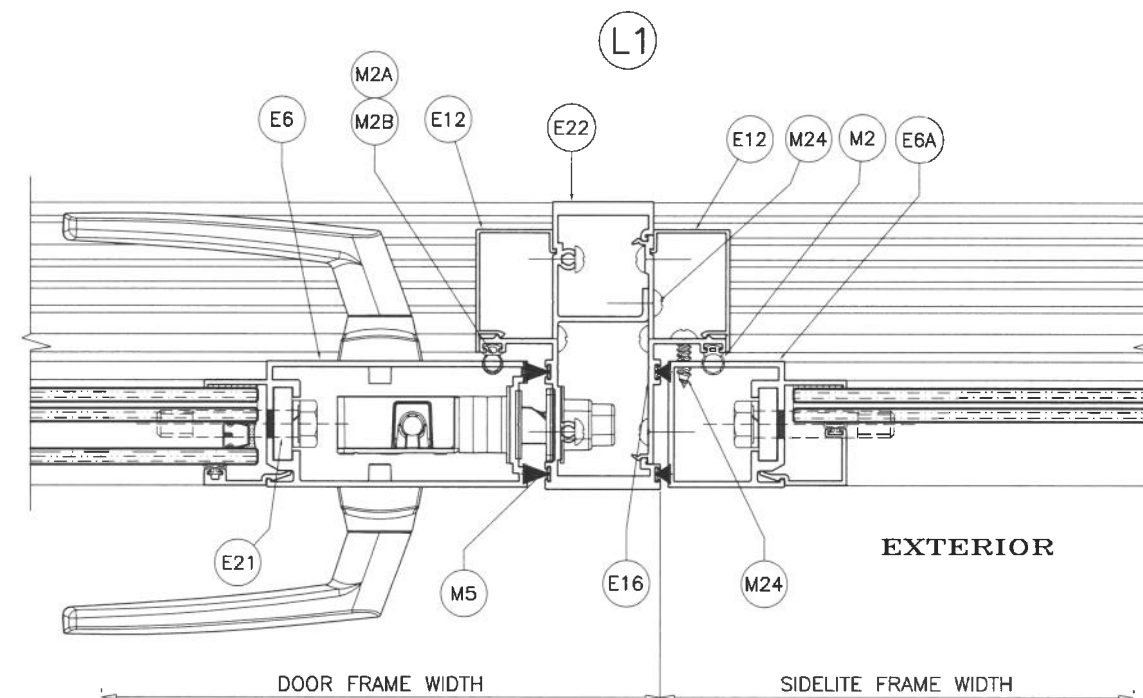
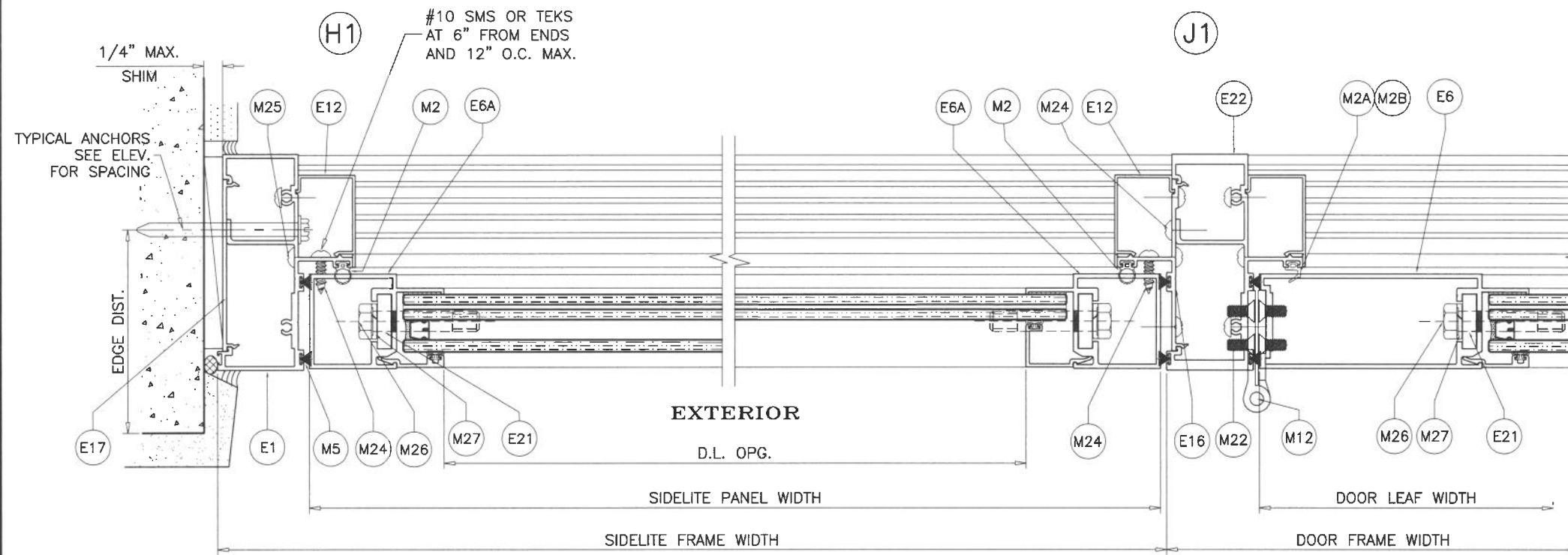
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sheet 9 of 12



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W16-71
sheet 9.1 of 12

LOCK OPTIONS:

OPTION #1:

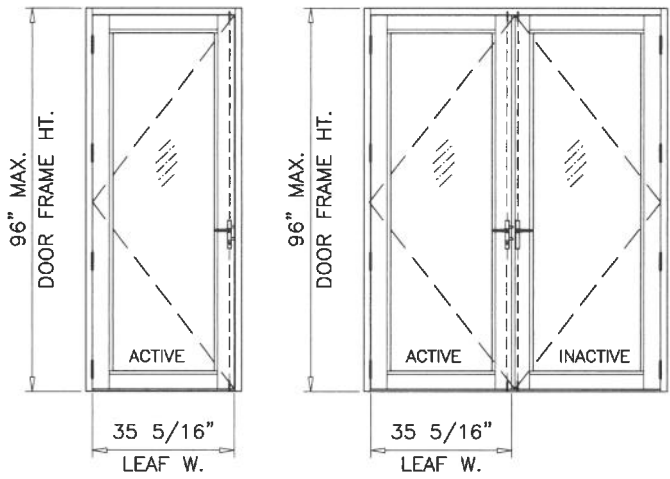
MAX. FRAME HEIGHT = 96 IN.
MAX. LEAF WIDTH = 36-3/16 IN.
MAX. DESIGN LOAD = ±80 PSF

ACTIVE LEAF:

3 POINT LEVER COMPRESSION LOCK BY 'INTERLOCK USA'
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
LEVER TYPE HANDLE AT 43-5/8" FROM BOTTOM
ACTIVATES SHOOT BOLTS ENGAGING 3/4" MIN. AT HEAD AND SILL
FASTENED WITH
(2) #10 X 3/4" FH SMS

INACTIVE LEAF:

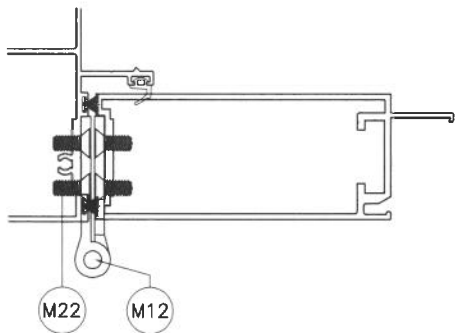
TWIN BOLT LOCK BY 'INTERLOCK USA'
LEVER TYPE HANDLE AT 43-5/8" FROM BOTTOM
ACTIVATES SHOOT BOLTS ENGAGING 3/4" MIN. AT HEAD AND SILL
FASTENED WITH
(2) #10 X 3/4" FH SMS



HINGE OPTIONS:

OPTION #1:

4-1/2" LONG FLUSH MOUNT STEEL BUTT HINGES BY 'HAGER'
FASTENED WITH 12-24 X 1/2" FH MACHINE SCREWS
FOUR PER HASP(LEAF).
TOP AND BOTTOM HINGES AT 7-7/8" FROM EACH END
(1) HINGE REQD. AT MIDSPAN FOR 82" HIGH DOORS WITH
STANDARD THRESHOLD ONLY.
ALL OTHER DOORS TO HAVE INTERMEDIATE HINGES AT 26-3/8" O.C. MAX.



OPTION #2:

MAX. FRAME HEIGHT = 108 IN.
MAX. LEAF WIDTH = 36-3/16 IN.
MAX. DESIGN LOAD = ±80 PSF

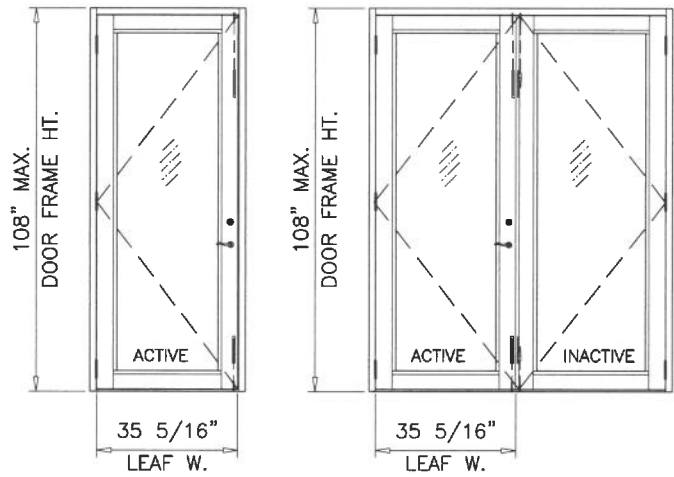
ACTIVE LEAF:

SURFACE MOUNT DEAD BOLT LOCK BY 'YALE'
AT 45" FROM BOTTOM, KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
FASTENED TO ACTIVE LEAF LOCK STILE WITH
(2) 1/4-28 X 2-1/2" OH MS
LEVER TYPE METALLIC HANDLE AT 37" FROM BOTTOM, FASTENED TO ACTIVE LEAF LOCK STILE
WITH (2) #8-32 X 1-3/4" PH MS.

CONCEALED FLUSH BOLTS FB-1202 BY 'SULLIVAN & ASSOCIATES'
1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE
LOCATED AT 12" FROM TOP AND BOTTOM
LOCK FASTENED TO STILE WITH (2) #8-32 X 1/2" FH MS

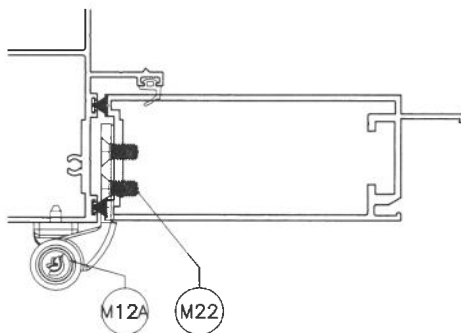
INACTIVE LEAF:

CONCEALED FLUSH BOLTS FB-1202 BY 'SULLIVAN & ASSOCIATES'
1/2" X 2" THROW BOLTS ENGAGING FRAME AT HEAD AND SILL
MANUALLY OPERATED LEVERS MOUNTED ON INSIDE FACE
OF LEAF STILE LOCATED AT 12" FROM TOP AND BOTTOM
LOCK FASTENED TO STILE WITH (2) #8-32 X 1/2" FH MS



OPTION #2:

STAINLESS STEEL ATHENA HINGES BY 'SECURISTYLE'
FASTENED WITH 12-24 X 1/2" FH MACHINE SCREWS
FOUR PER HASP(LEAF).
TOP HINGES AT 9" FROM TOP
BOTTOM HINGES AT 7-1/2" FROM BOTTOM
(1) HINGE AT MIDSPAN



Sealed: 7/10/2026



FL #22551

afc

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(C.A.N. 3538)

ES-EL300 ALUMINUM OUTSWING DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions: no date by description

date: 11-20-16

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.
W16-71

sheet 10 of 12

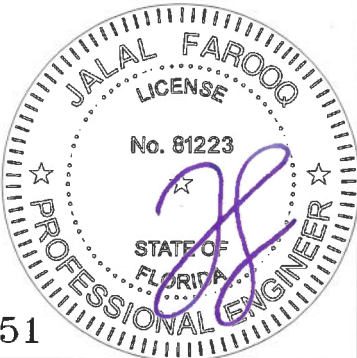
COMP-ANL\W16-71ES

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL300-001A	3	FRAME HEAD/JAMB	6063-T6	-
E2	ES-EL300-002	1	FRAME SILL (STD.)	6063-T6	-
E3	ES-EL300-003	1	FRAME SILL (ADA)	6063-T6	-
E4	ES-EL300-004	2/ LEAF	TOP AND BOTTOM RAIL	6063-T6	-
E5	ES-EL300-005	1/ LEAF	HI-RISE BOTTOM RAIL	6063-T6	-
E6	ES-EL300-020	1/ LEAF	JAMB STILE	6063-T6	-
E6A	ES-EL300-008	2/ PANEL	SIDELITE JAMB STILE	6063-T6	-
E9	ES-EL300-021	1	ASTRAGAL STILE (ACTIVE)	6063-T6	-
E10	ES-EL300-022	1	ASTRAGAL STILE (INACTIVE)	6063-T6	-
E11	ES-EL300-011	1	ADA SILL W'STRIP ADAPTER	6063-T6	-
E12	ES-EL300-012	1	FRAME COVER	6063-T5	-
E13	ES-EL300-013	4/ LEAF	GLASS STOP (LAM. GLASS)	6063-T5	-
E14	ES-EL300-014	4/ LEAF	GLASS STOP (LAM. GLASS)	6063-T5	-
E15	ES-EL300-015	4/ LEAF	GLASS STOP (INSUL. LAM. GLASS)	6063-T5	-
E16	ES-EL300-016	AS REQD.	SNAP IN FILLER	6063-T6	-
E17	ES-EL300-017	AS REQD.	EXTERIOR TRIM	6063-T6	-
E18	ES-EL300-018	AS REQD.	FRAME COVER	6063-T5	-
E19	ES-EL300-019	1	COVER STD. SILL	6063-T6	-
E20	ES-6011	1	COVER ADA SILL	6063-T6	-
E21	ACC-PL-020	1	BACK UP PLATE	6063-T6	-
E22	ES-EL300-026	1	MULLION	6063-T6	-
M1	ES-5008A	AS REQD.	GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A
M1A	ES-EL100-G02A S	AS REQD.	GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A
M2	ES-P251-G05A	AS REQD.	SIDELITE GASKET	SILICONE	DUROMETER 70±5 SHORE A
M2A	ES-EL300-G01	AS REQD.	DOOR LEAF GASKET	SILICONE	DUROMETER 65±5 SHORE A
M2B	ES-PSD5030T-G03	AS REQD.	DOOR LEAF GASKET	EPDM	DUROMETER 60±5 SHORE A
M3	ES-45T-G09	AS REQD.	ADA SILL GASKET	EPDM	DUROMETER 70±5 SHORE A
M4	ES-21-B04A	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
M5	W23221NG	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M6	W23221NK	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M7	W23381NK	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M12	-	4/ LEAF	HINGE ASSEMBLY	-	HAGER
M12A	DH01-6005	4/ LEAF	ATHENA HINGE	-	-
M22	#12-24 X 1/2"	-	HINGE FASTENERS	ST/ST	FH SMS
M23	#8 X 1/2"	-	W'STRIP ADAPTER FASTENERS	ST/ST	PH SMS
M24	#10 X 3/4"	-	FIX. PANEL FASTENERS, AT 6" FROM ENDS & 12" O.C.	ST/ST	PH SMS
M25	#12 X 1-3/4"	-	FRAME ASSEMBLY FASTENERS	ST/ST	PH SMS
M26	3/8-16 X 2"	-	LEAF/PANEL ASSEMBLY FASTENERS	ST/ST	HEX CAP FULL THREAD 18-8
M27	-	-	3/8" WASHER	ST/ST	HEX CAP FULL THREAD 18-8
M29	#10 X 1-3/4"	AS REQD.	HEAD ASSEMBLY FASTENERS	ST/ST	PH SMS

SEALANTS:

ALL FRAME AND LEAF JOINTS AND SEAMS SEALED
WITH DOWSIL 791 SILICONE.

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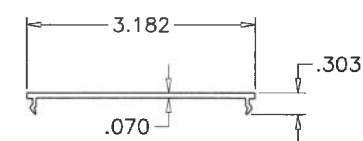
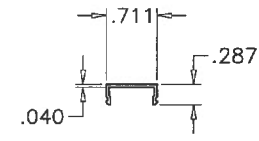
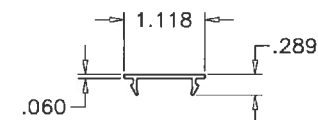
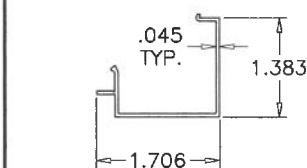
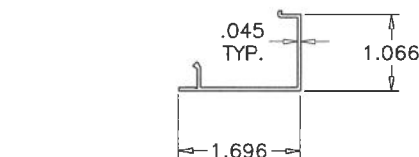
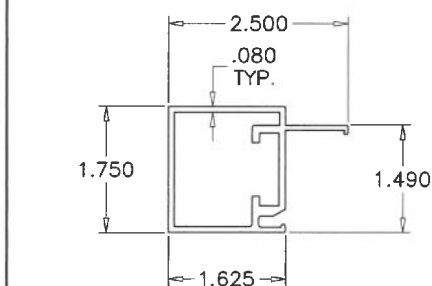
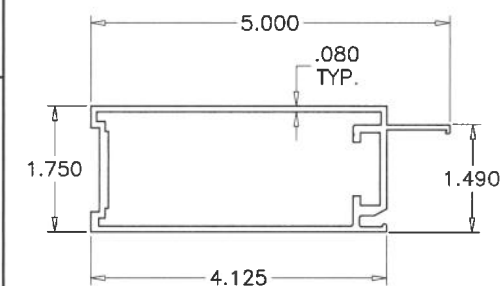
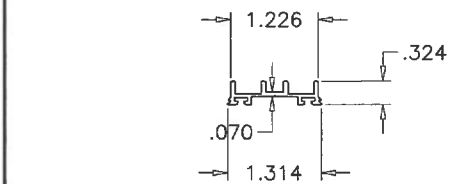
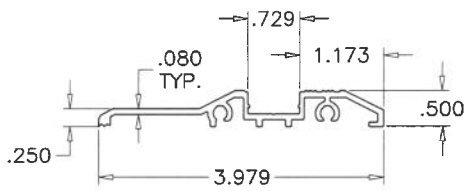
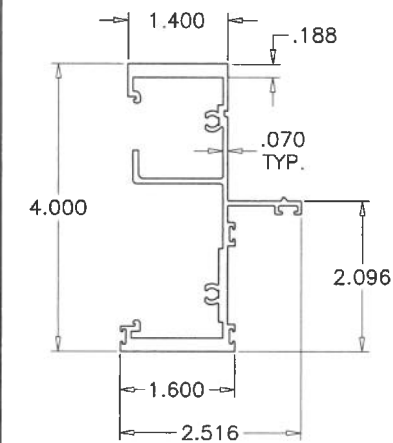
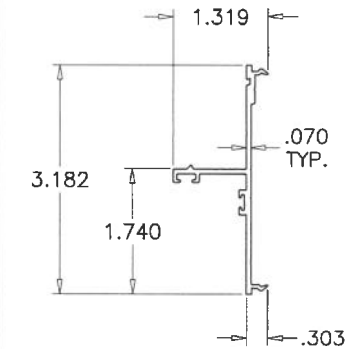
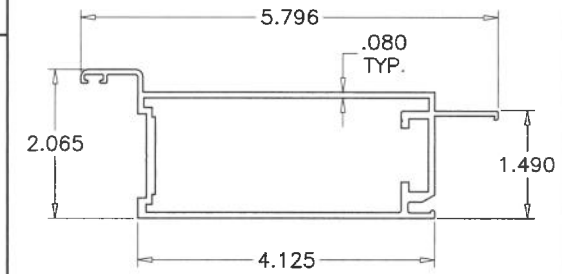
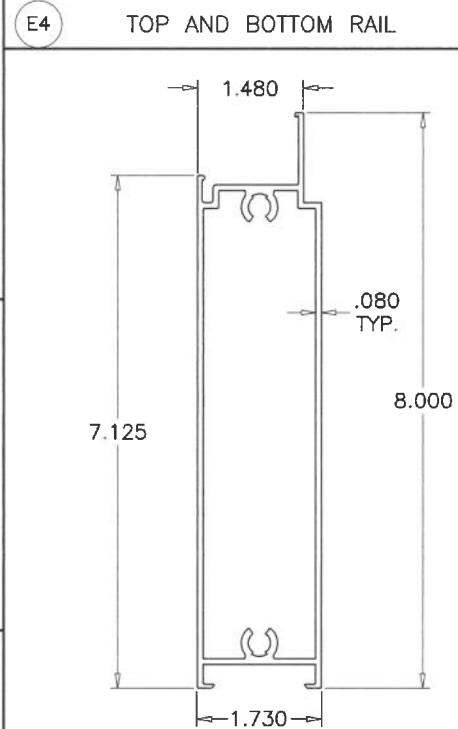
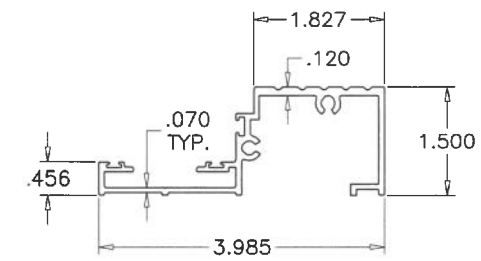
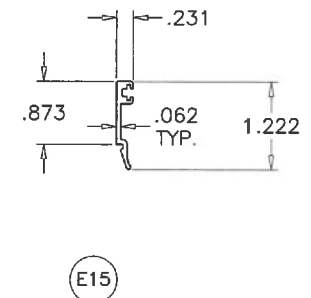
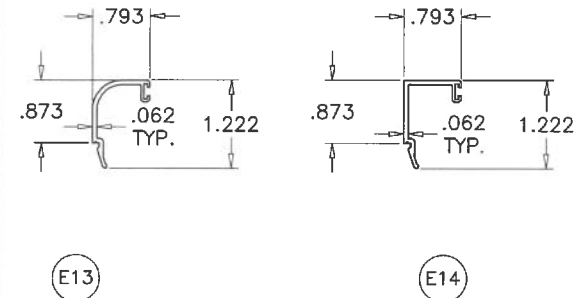
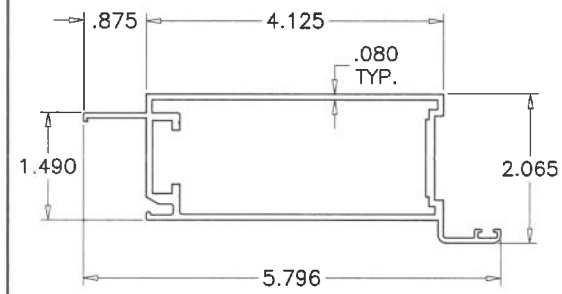
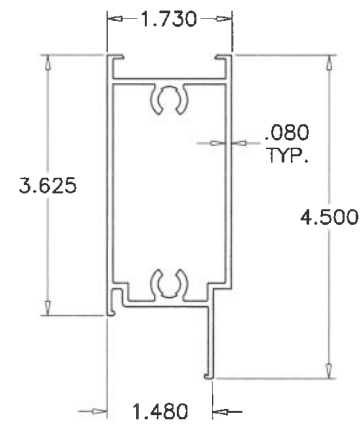
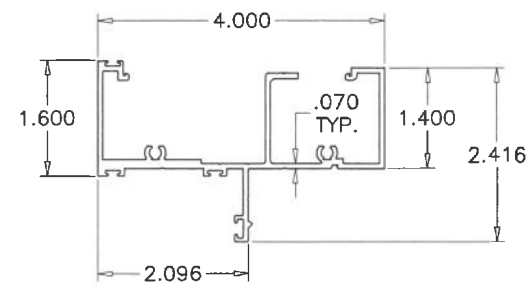
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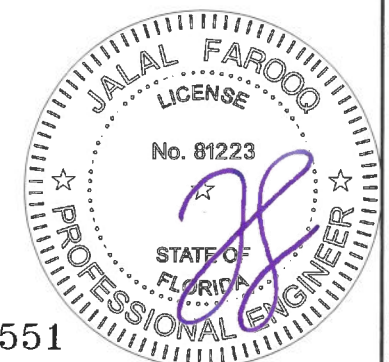
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sheet 10.1 of 12



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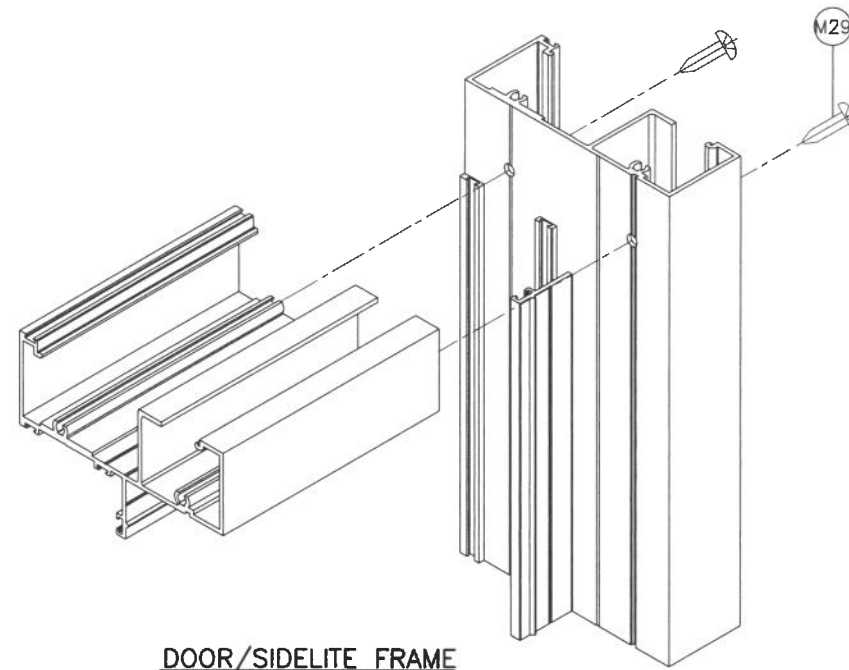
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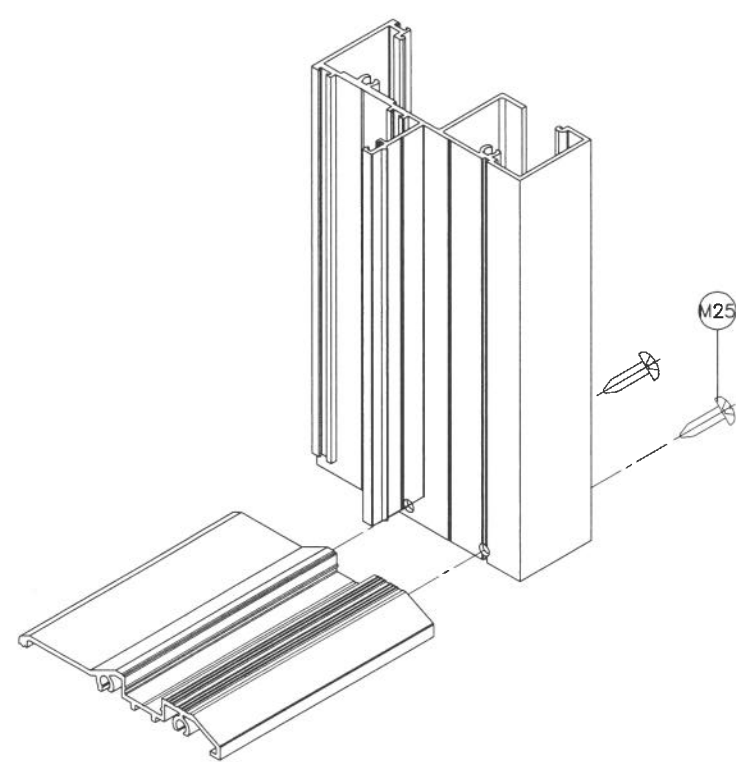
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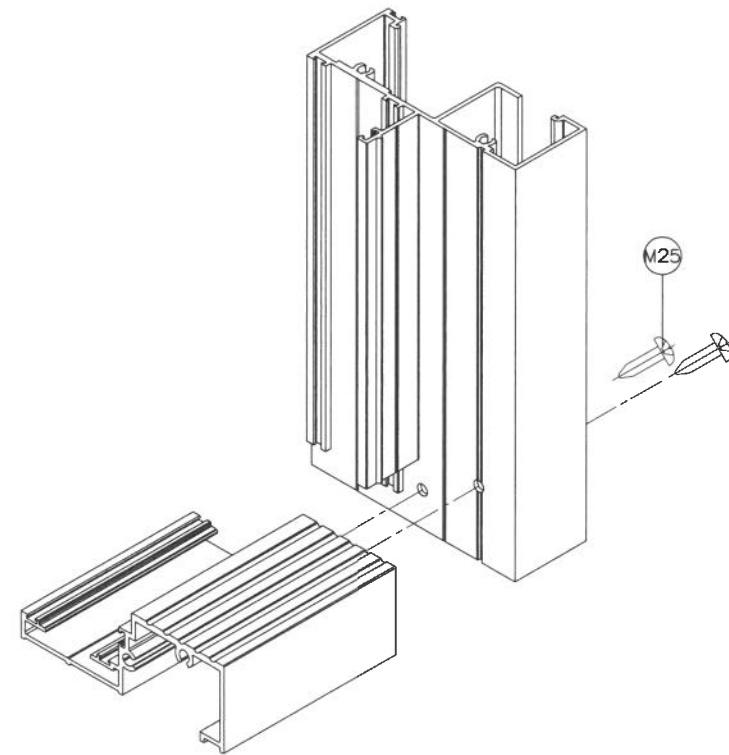
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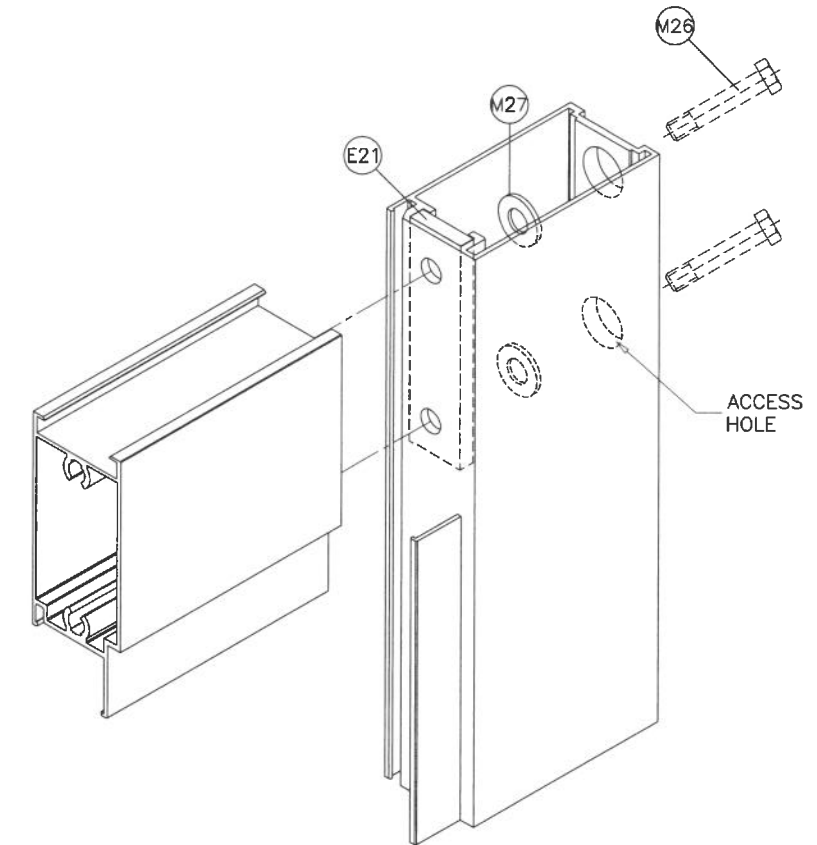
DOOR/SIDELITE FRAME
TOP CORNER



DOOR FRAME
BOTTOM CORNER



DOOR/SIDELITE FRAME
BOTTOM CORNER



DOOR LEAF CORNER
SIDELITE PANEL CORNER



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