

ES-EL300-9
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) 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 2023 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.

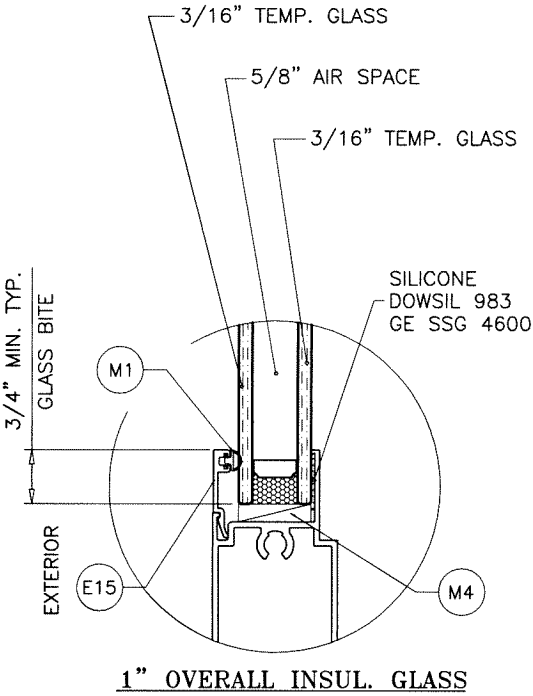
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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 SHEET 2.
- 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.



GLAZING DETAIL

5/8" 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

THESE DOORS ARE NOT RATED FOR IMPACT.

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.

INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

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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
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COMP-ANL\23-23F-ES

ES-EL300-9 ALUMINUM OUTSWING DOOR (N.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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revisions:	no	date	by	description
	A	07.10.23		UPDATED TO 2023 FBC
	B	12.23.25		ADA SILL ADDED
	C	02.10.26		GENERAL REVISION

date: 04-25-23

scale: 3/8" = 1"

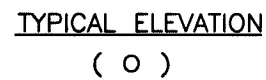
dr. by: TARIQ

chk. by:

drawing no.

23-23F

sheet 1 of 12



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

Technical drawing of a tripartite window assembly. The drawing shows three vertical panels: a fixed panel on the left, a central active panel, and a fixed panel on the right. The central panel is labeled 'ACTIVE' and 'INACTIVE' at the bottom. The left panel is labeled 'H' and 'G' at the top and bottom respectively. The central panel is labeled 'J' and 'B' at the top and bottom respectively. The right panel is labeled 'J' at the top. The drawing includes various dimensions and labels for components and anchors.

Dimensions:

- Frame Width:** 152 5/16"
- Panel Width:** 36 3/16"
- Leaf Width:** 36 3/16"
- Panel Width:** 36 3/16"
- Sidelite Frame Height:** 108"
- Sidelite Panel Height:** 105 9/16"
- D.L. OPG. (STD. RAIL):** 96 9/16"
- D.L. OPG. (HI-RISE RAIL):** 93 1/8"
- Head/Sill Anchors (4) at Stile Ends:** 3" O.C.
- Head/Sill Anchors (4) at Mullion Ends:** 3" O.C.
- Jamb Corners:** 6" MAX.
- Jamb:** 12" MAX.
- Head/Sill:** 12" MAX.
- Head/Sill Corners:** 7 5/8" MAX.
- Sidelite Width:** SEE CHART SHEET 4

Labels:

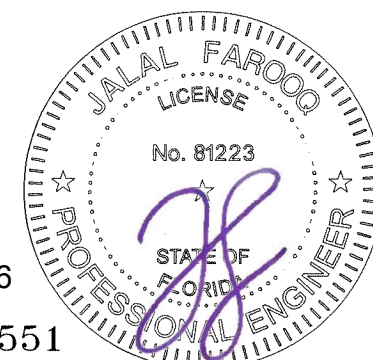
- HEAD/SILL ANCHORS AT STILE ENDS (4) AT 3" O.C.**
- HEAD/SILL ANCHORS (4) AT MULLION ENDS**
- ACTIVE**
- INACTIVE**
- H**
- G**
- J**
- B**
- F**
- A**
- E**

Notes:

- SURFACE APPLIED FALSE MUNTINS MAY BE USED**

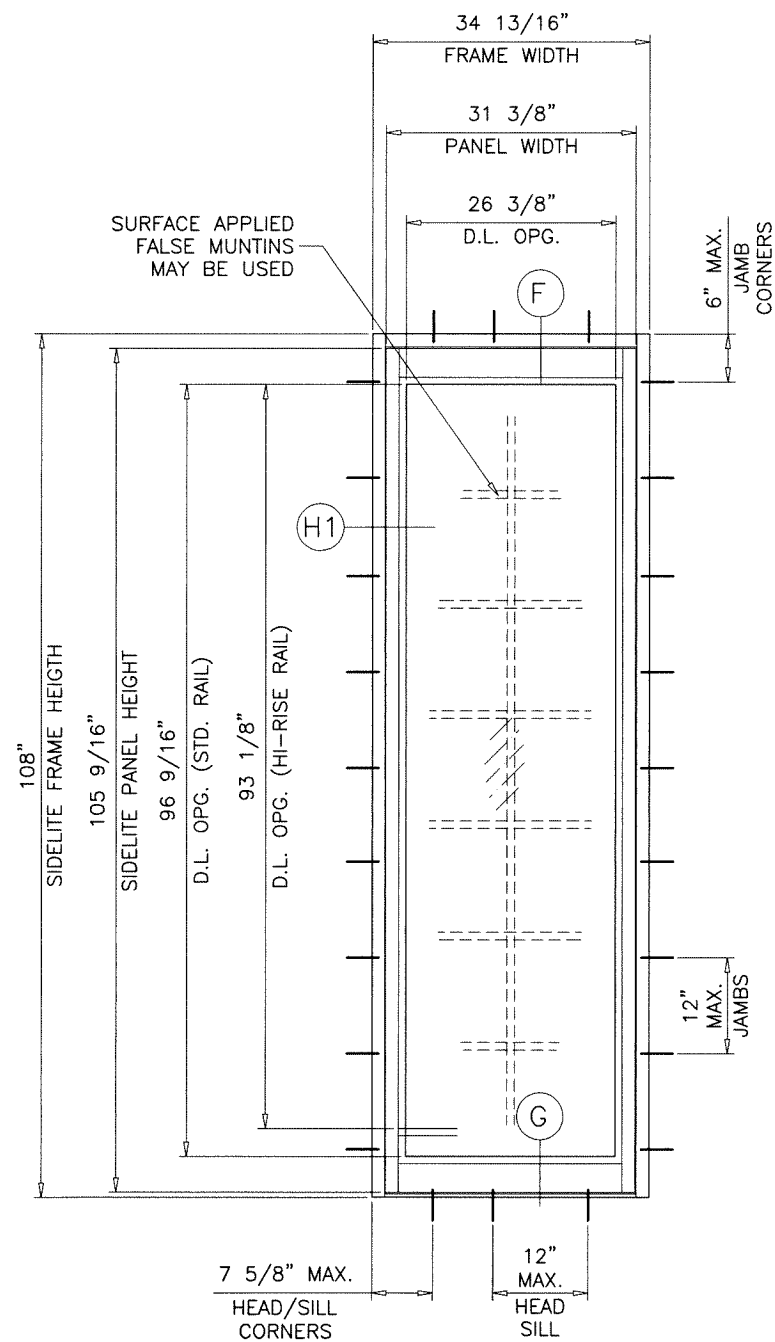
TYPICAL ELEVATION
(O-XX-O)

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



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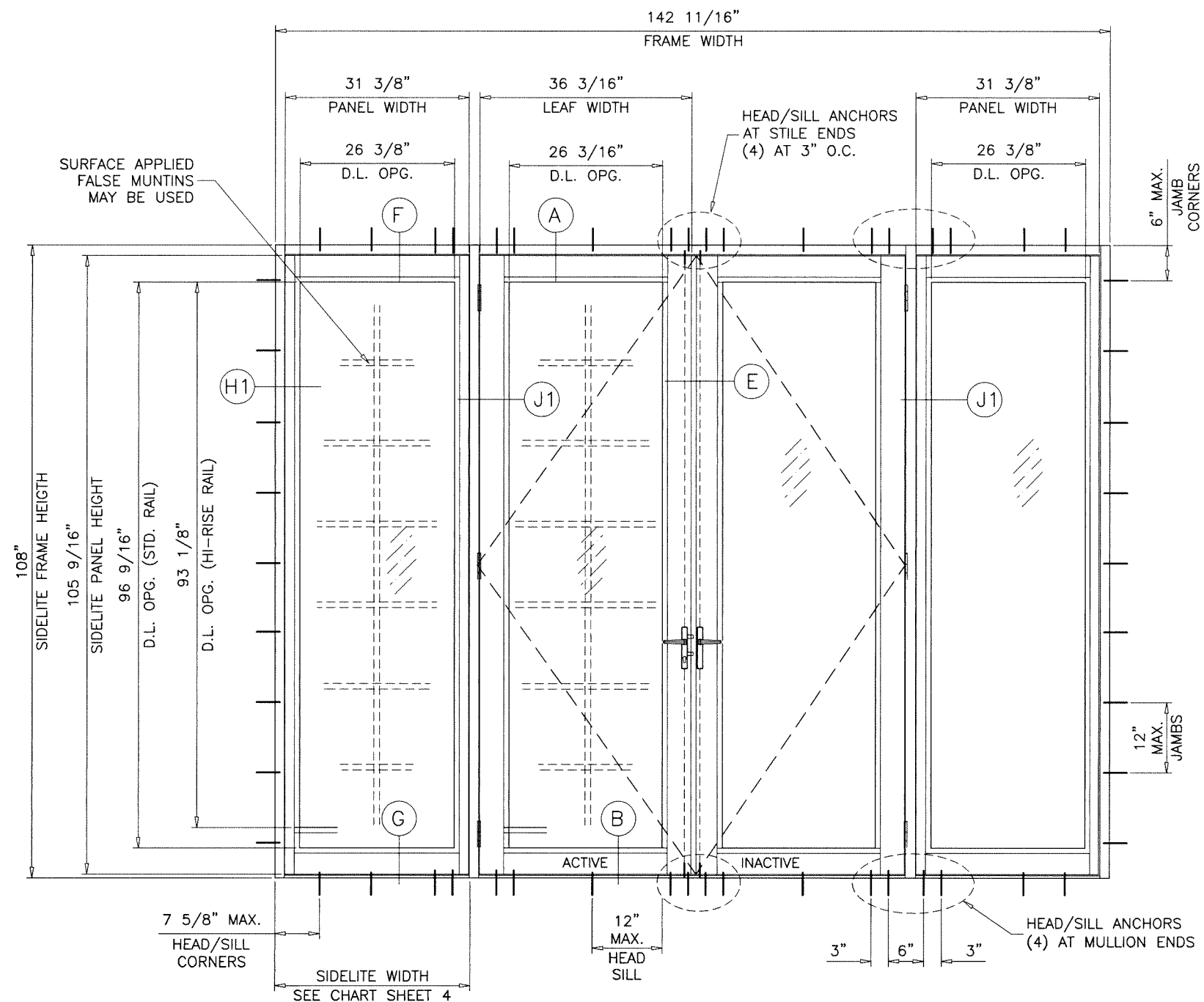
FL #22551



TYPICAL ELEVATION
(O)

SIDELITE LOAD CAPACITY - PSF OR STAND ALONE STATIONARY PANEL (O)						
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)



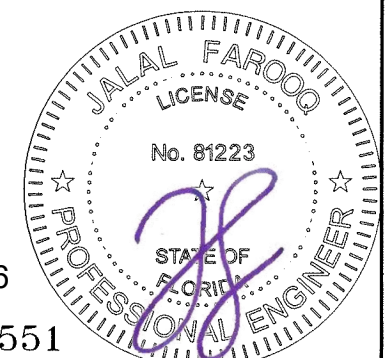
TYPICAL ELEVATION
(O-XX-O)

NOTE:
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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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revisions:
no date by description

date: 04-25-23
scale: 1/2"=1'-0"

dr. by: TARIQ

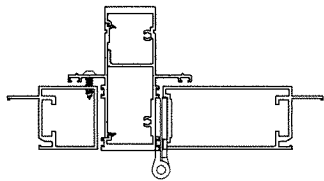
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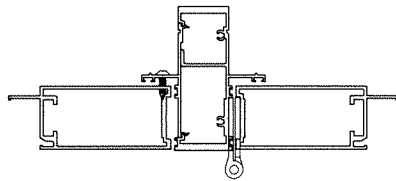
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sheet 3.1 of 12

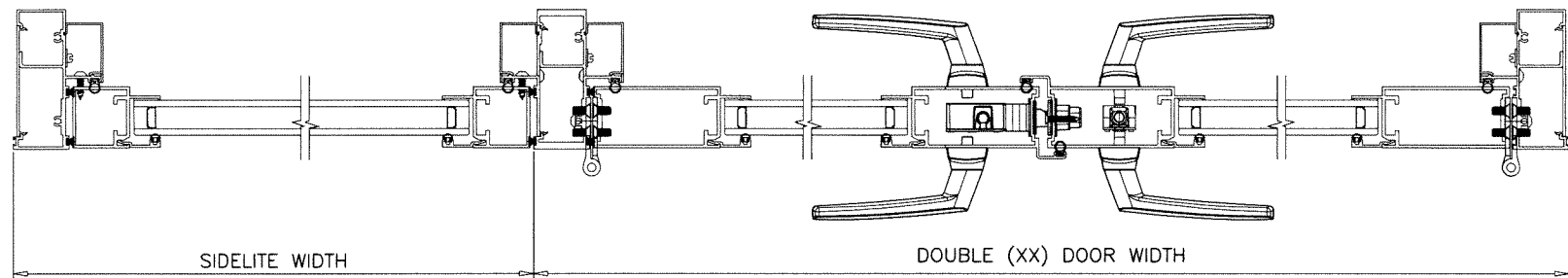
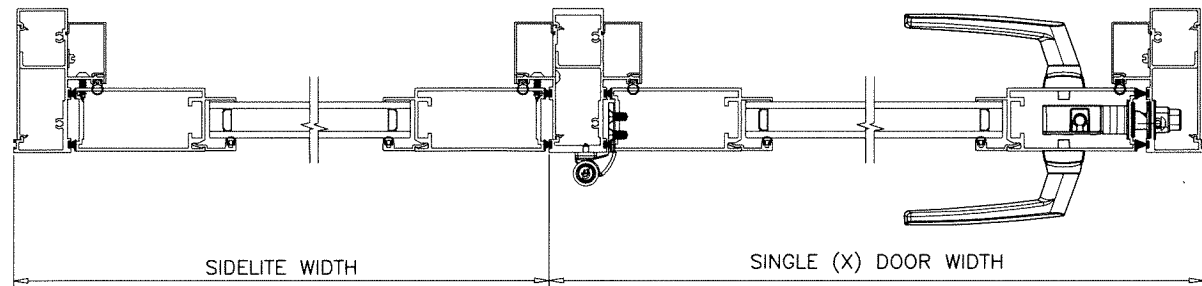
DESIGN LOAD CAPACITY – PSF DOOR TO SIDELITE OR DOOR TO DOOR MULLION			
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	MULL TYPE '1' EXT(+)/INT.(–)	MULL TYPE '2' EXT(+)/INT.(–)
18	84	80.0	80.0
24		80.0	80.0
30		80.0	80.0
33–3/16		80.0	80.0
38		–	80.0
42		–	80.0
18	90	80.0	80.0
24		80.0	80.0
30		80.0	80.0
33–3/16		80.0	80.0
38		–	80.0
42		–	80.0
18	96	80.0	80.0
24		80.0	80.0
30		79.8	80.0
33–3/16		76.2	76.8
38		–	75.0
40–1/2		–	73.0
18	108	68.1	73.2
24		61.5	66.2
30		56.1	60.0
33–3/16		42.9	57.0
38		–	54.0



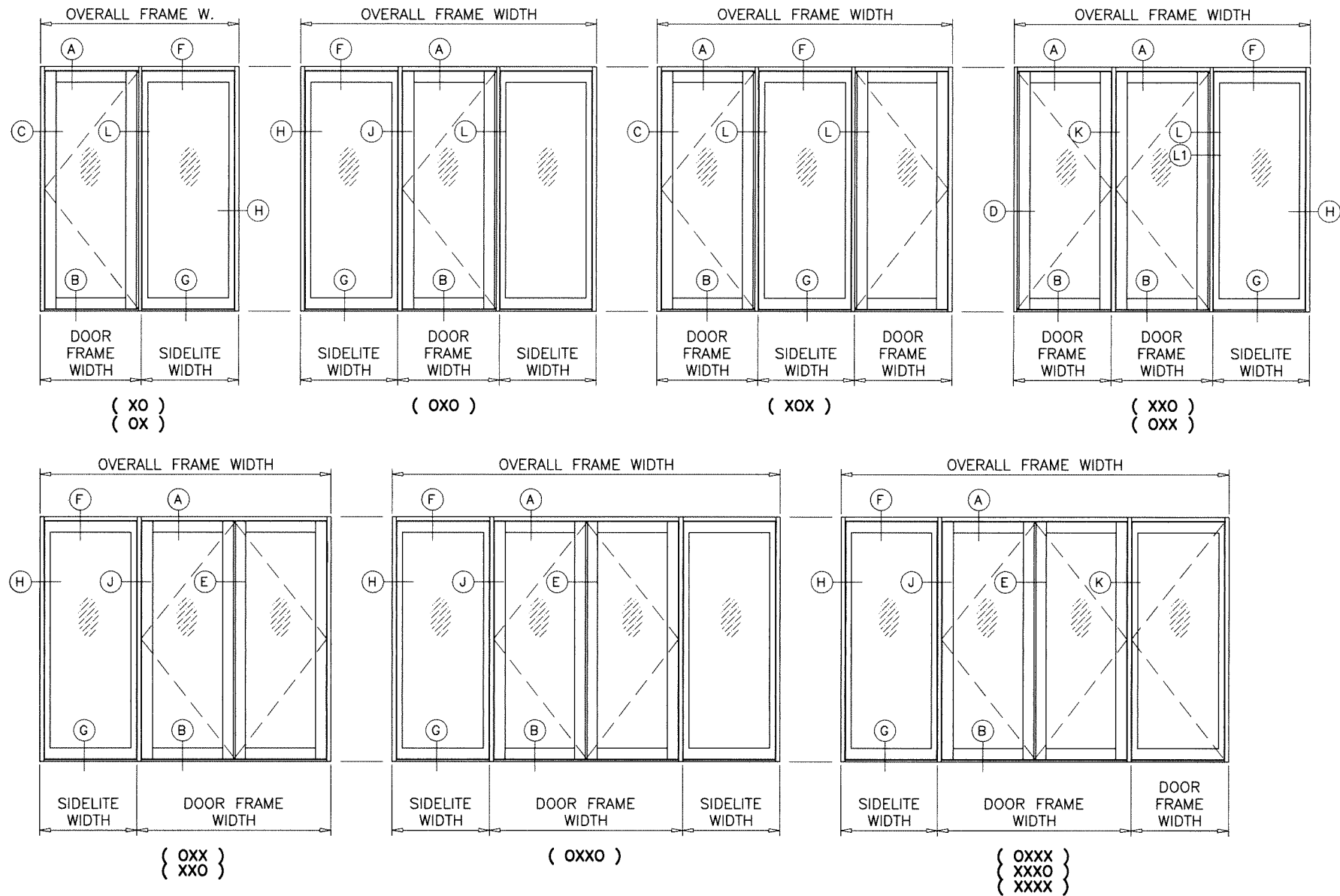
MULL TYPE '1'
DOOR TO SIDELITE MULLION



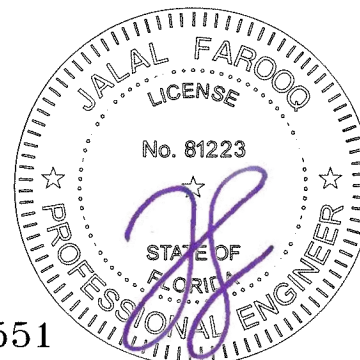
MULL TYPE '2'
DOOR TO SIDELITE MULLION
DOOR TO DOOR MULLION



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



APPROVED CONFIGURATIONS



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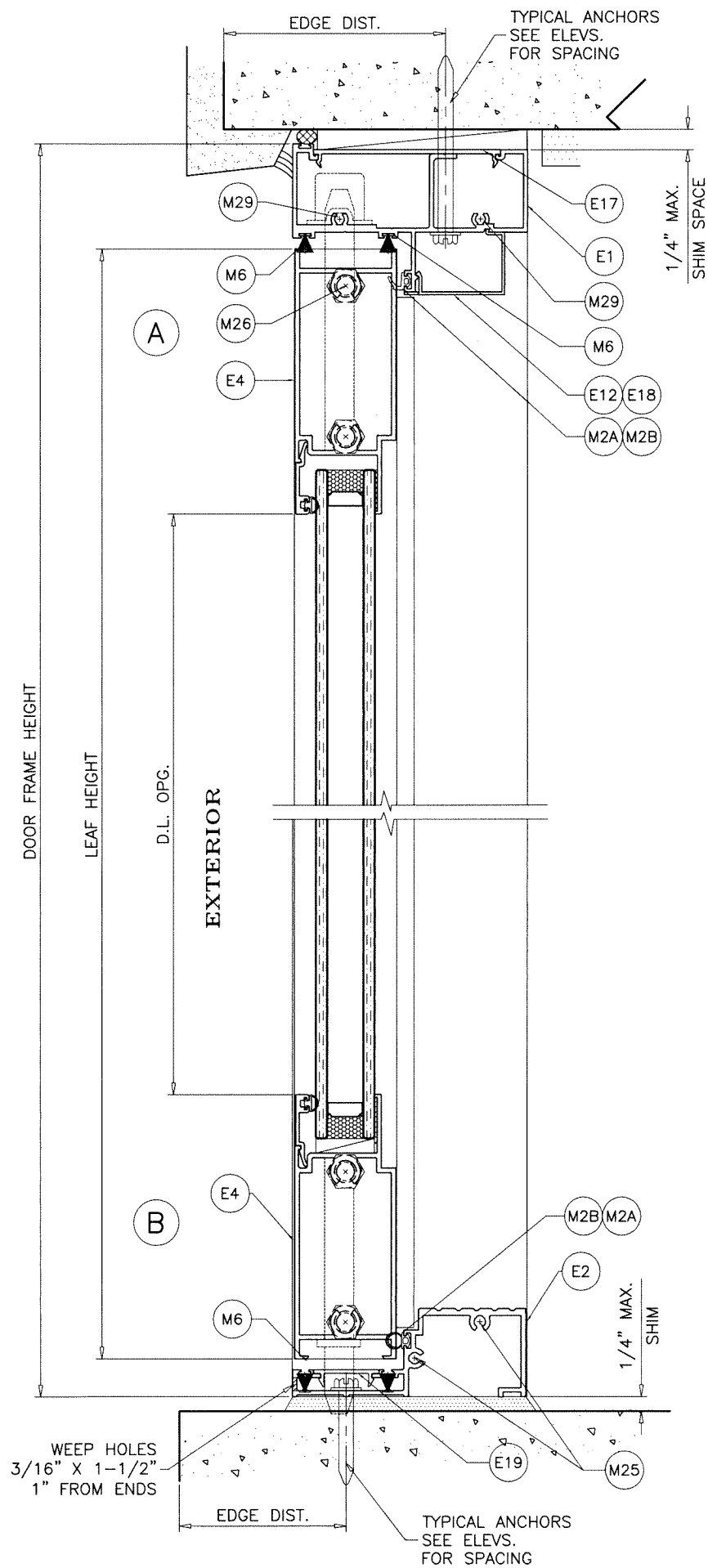
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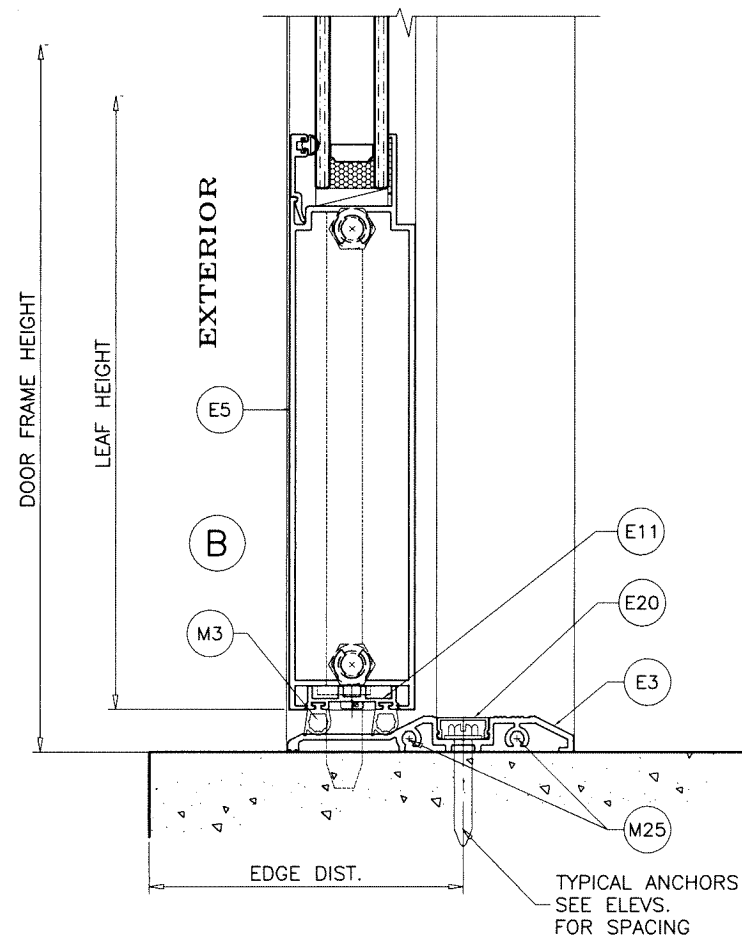
sheet 4 of 12

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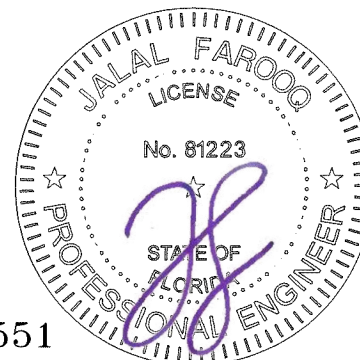
STD. THRESHOLD
APPROVED FOR WATER INFILTRATION RESISTANCE



ADA THRESHOLD
NOT APPROVED FOR WATER INFILTRATION RESISTANCE

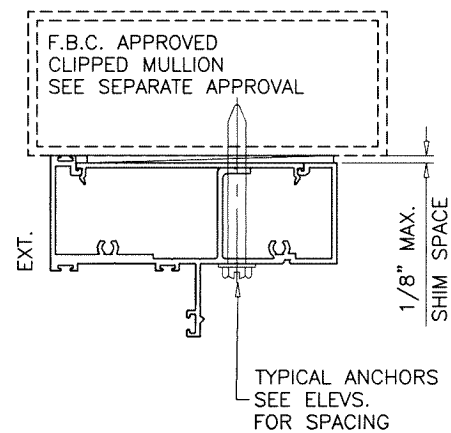
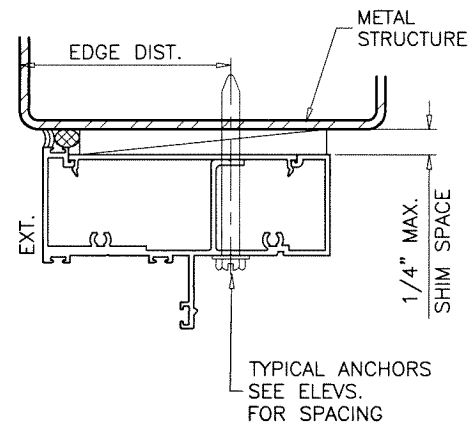
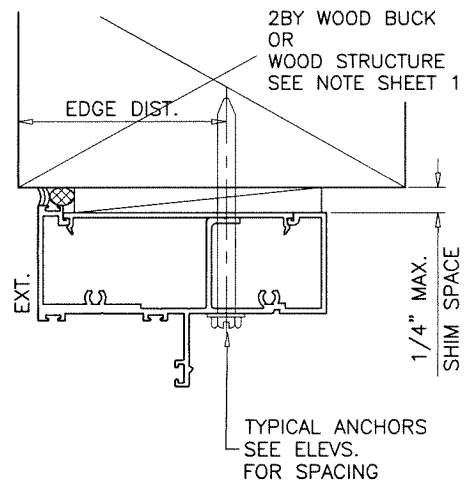
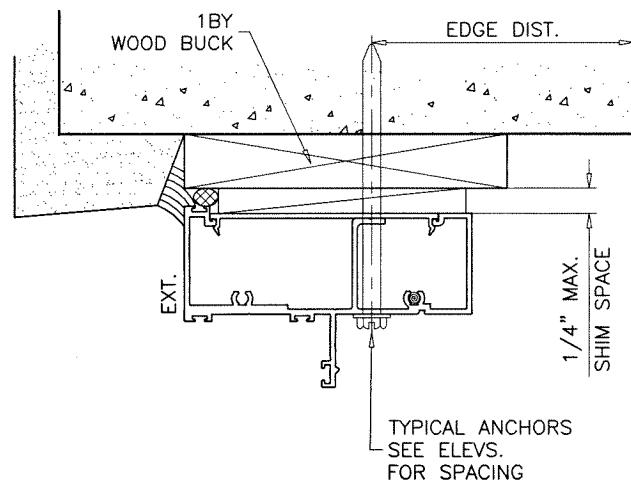
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DOOR DETAILS

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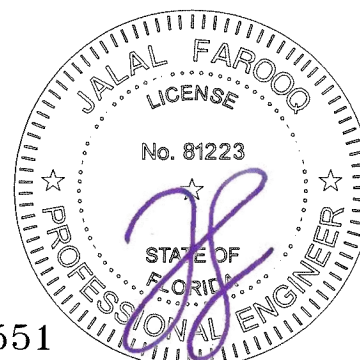
WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WINDOWS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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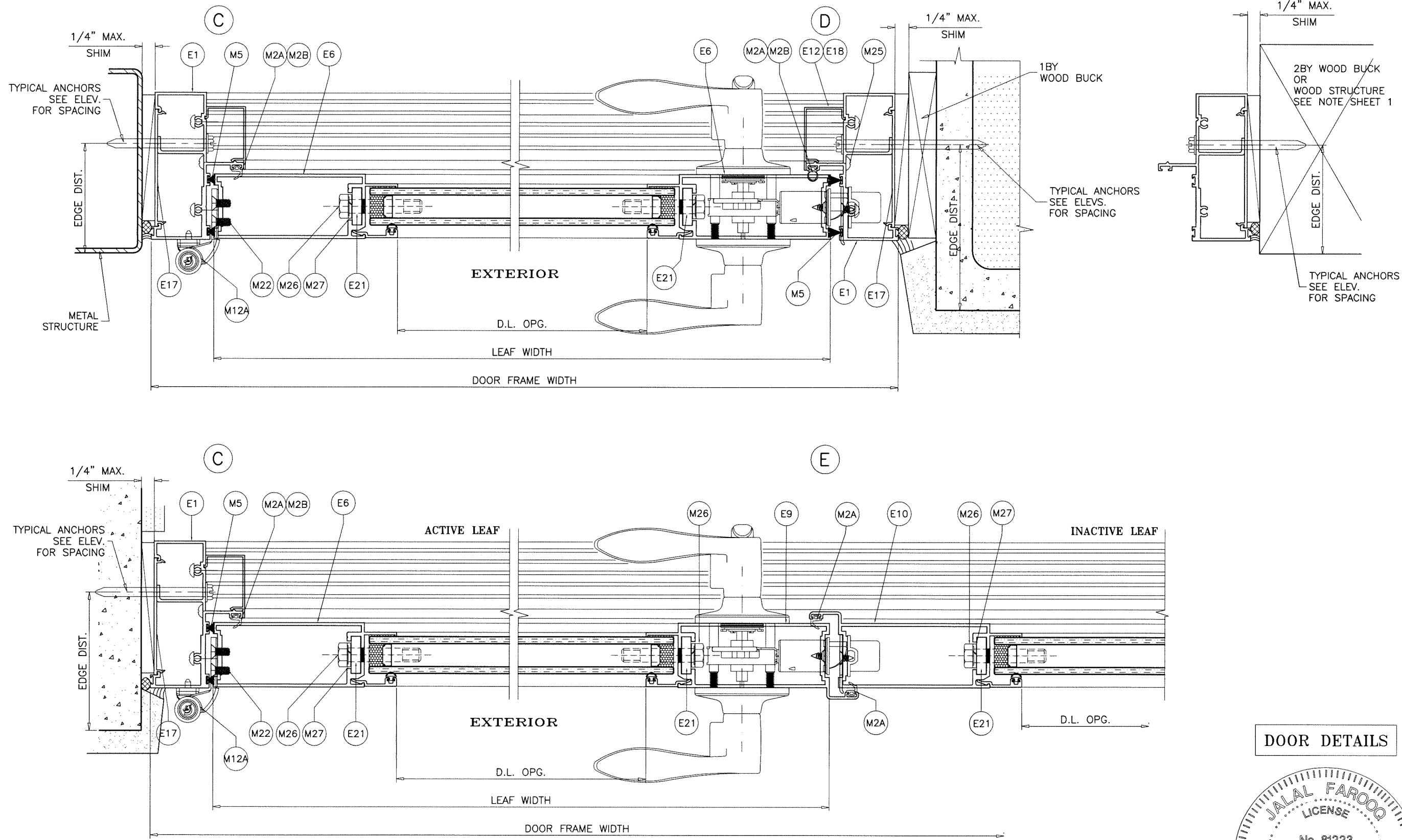
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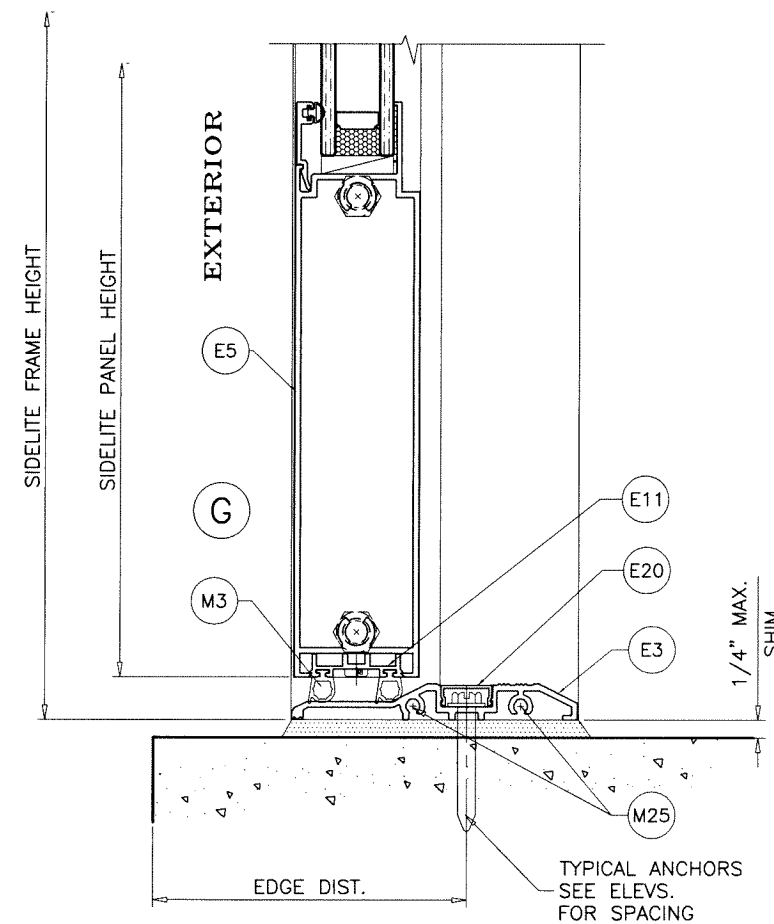
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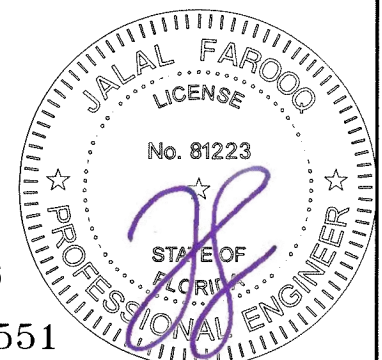
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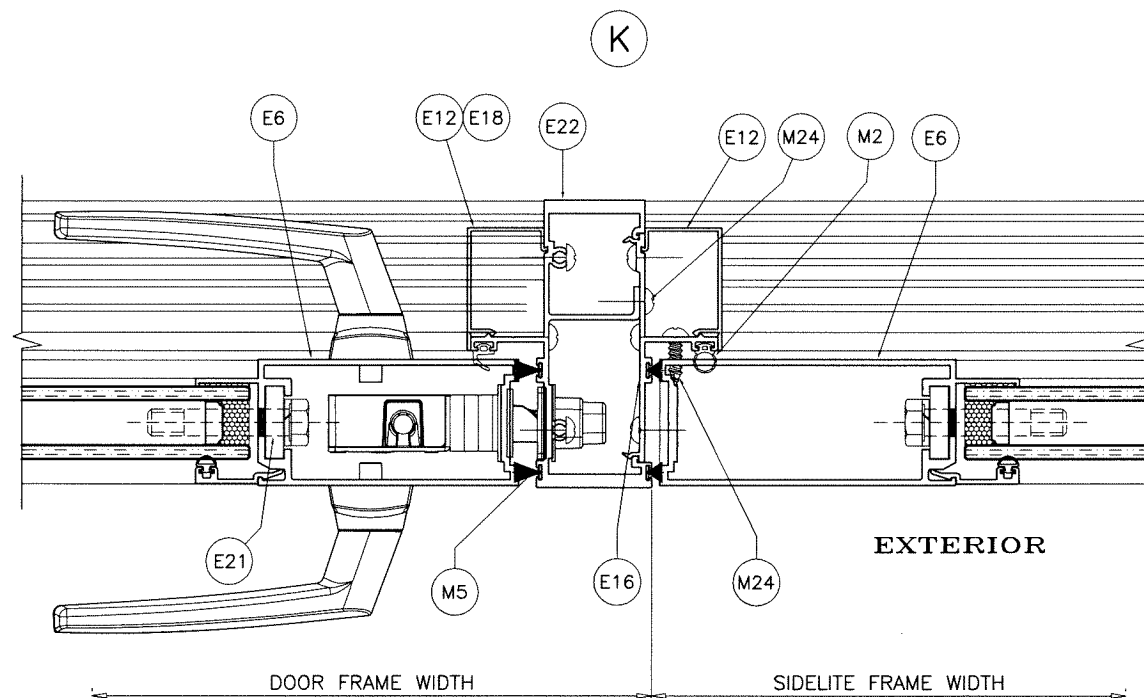
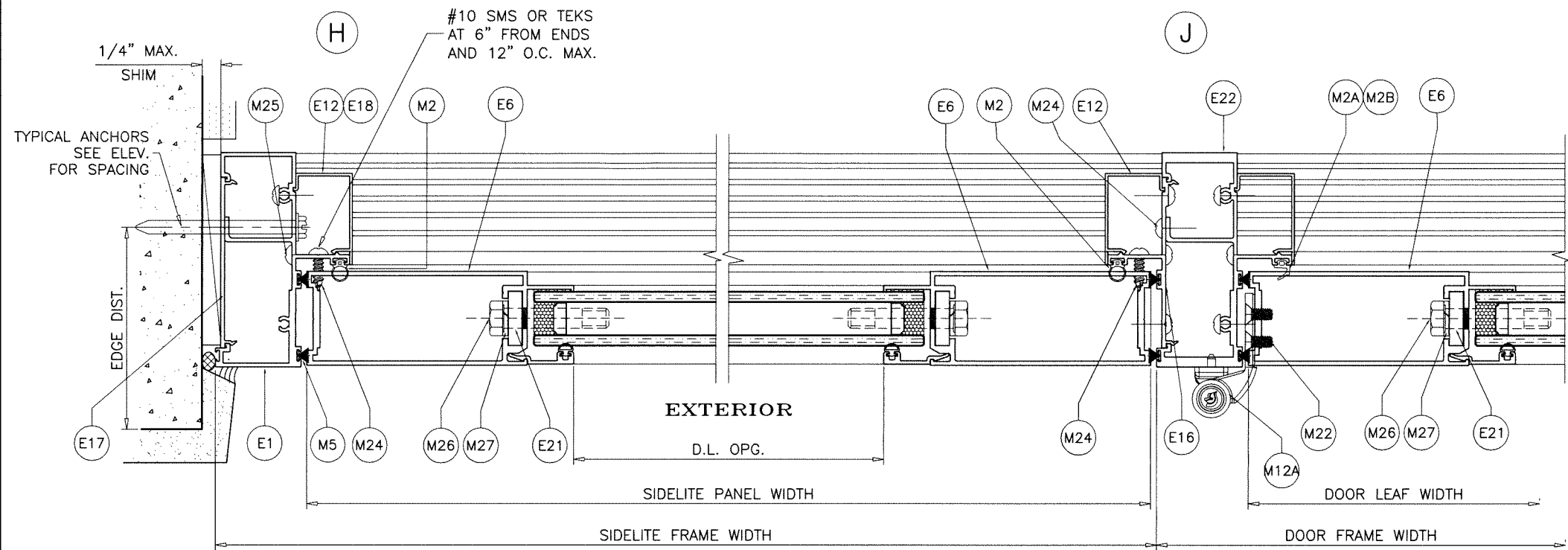
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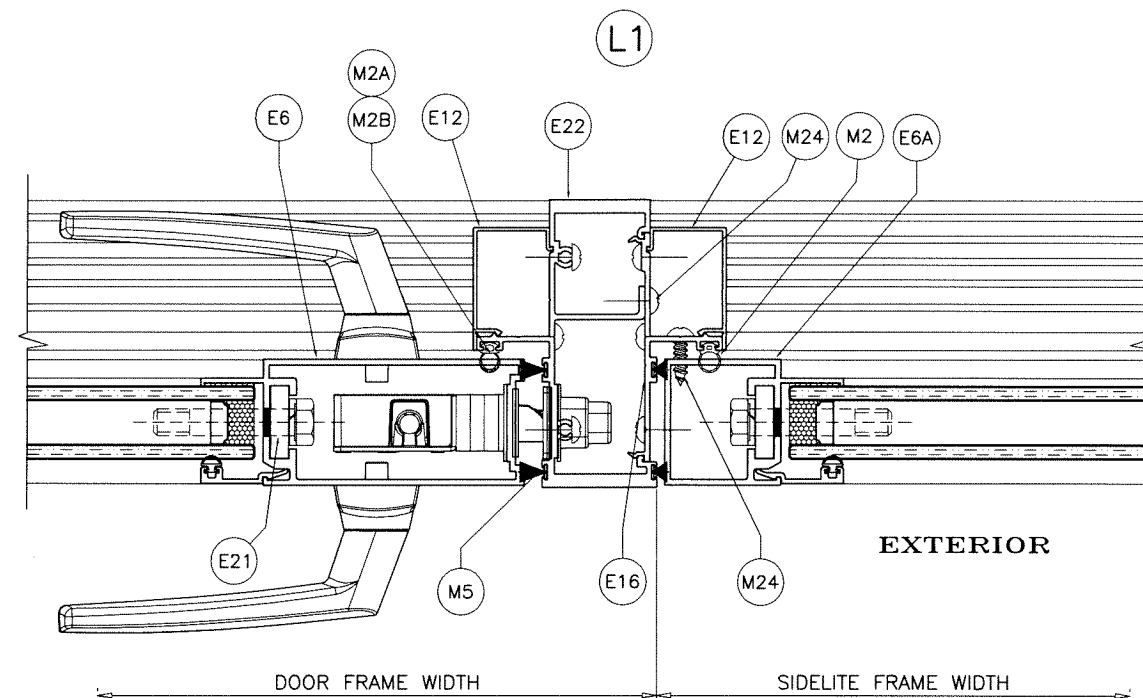
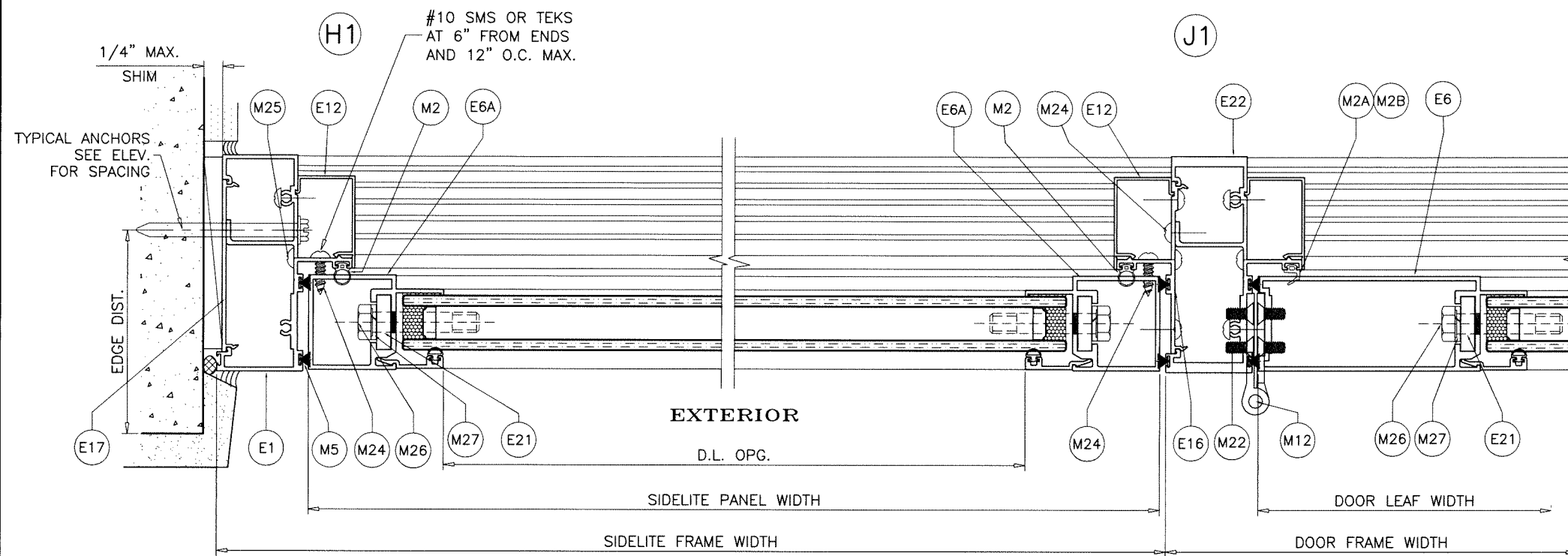
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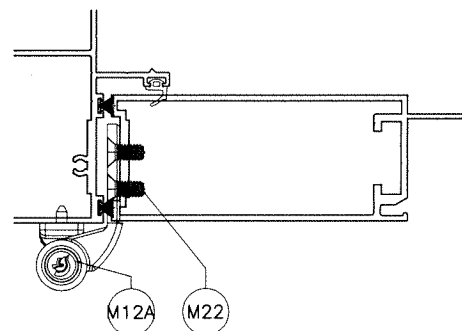
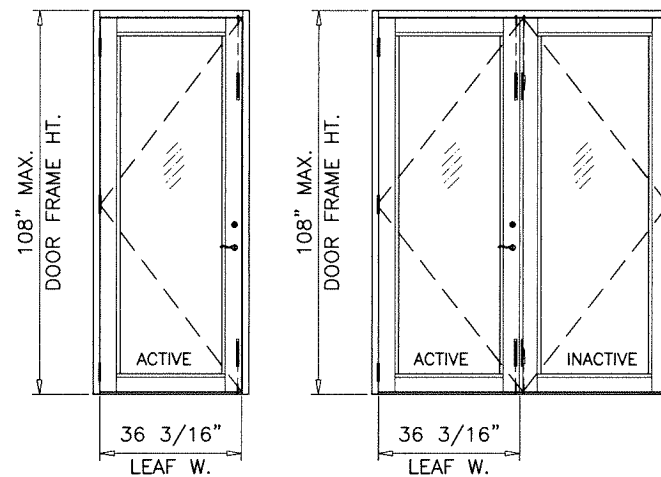
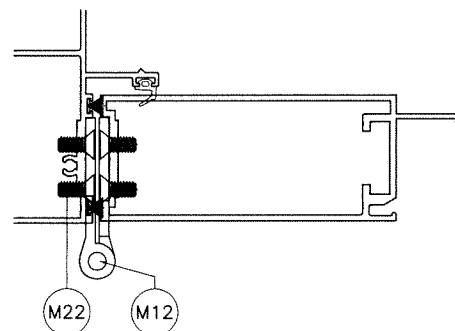
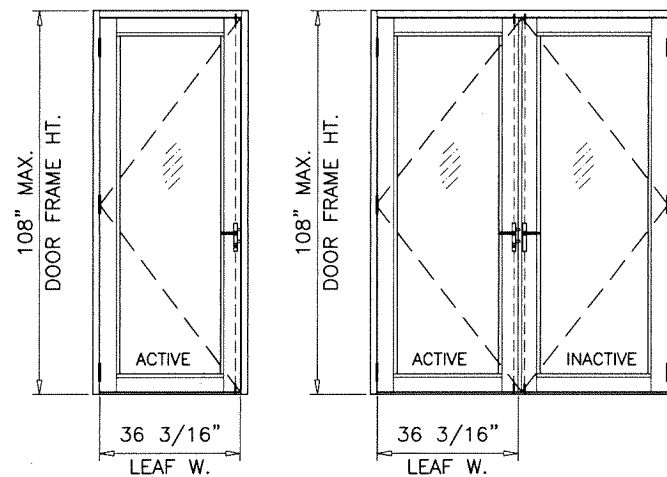
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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dr. by: TARIQ
chk. by:

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drawing no.
23-23F
sheet 9.1 of 12



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	-
E15	ES-EL300-015	4/ LEAF	GLASS STOP (INSUL. 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
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	-	3/ LEAF	HINGE ASSEMBLY	-	HAGER
M12A	DH01-6005	3/ LEAF	ATHENA HINGE	-	-
M22	#12-24 X 1/2"	-	HINGE FASTENERS	ST/ST	FH 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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FL #22551



AL-FAROOQ CORPORATION
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ES-EL300-9 ALUMINUM OUTSWING DOOR (N.I.)

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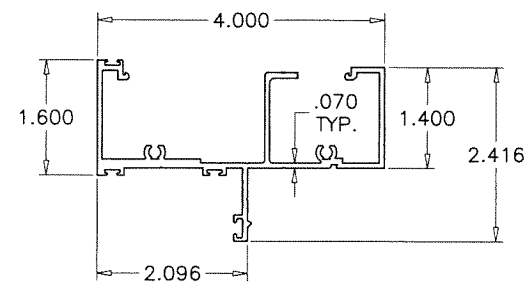
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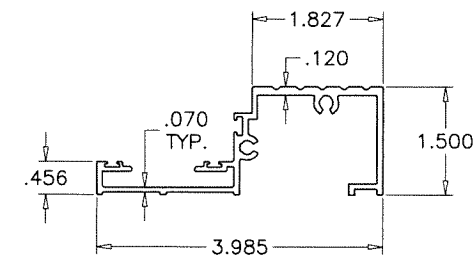
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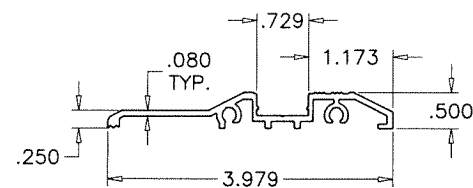
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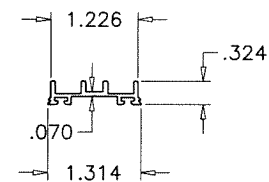
E1 FRAME HEAD/JAMB



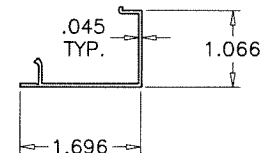
E2 FRAME SILL (STD.)



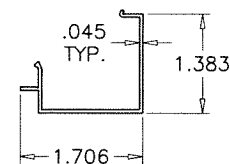
E3 FRAME SILL (ADA)



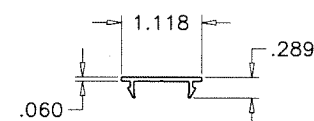
(E11) ADA W'STRIP ADAPTER



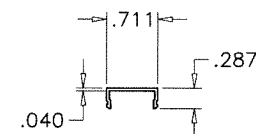
E12 FRAME COVER



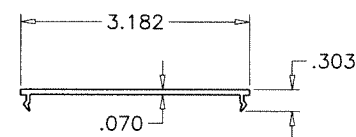
(E18) FRAME COVER



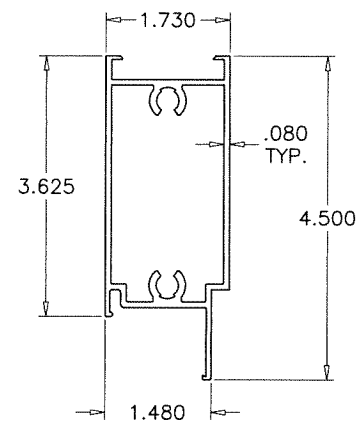
(E19) COVER STD. SILL



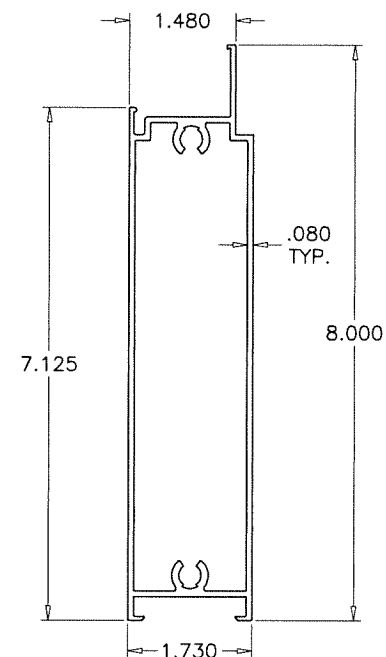
(E20) COVER ADA SILL



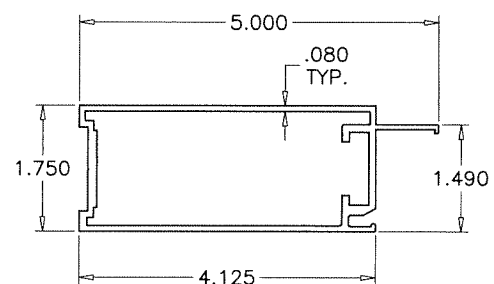
E17 EXTERIOR TRIM



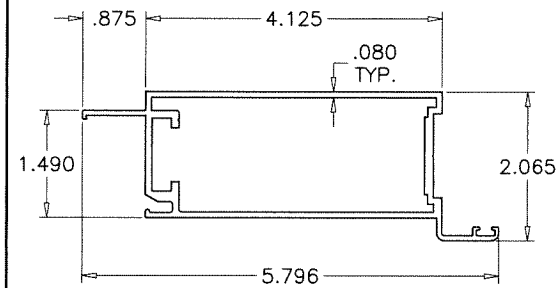
E4 TOP AND BOTTOM RAIL



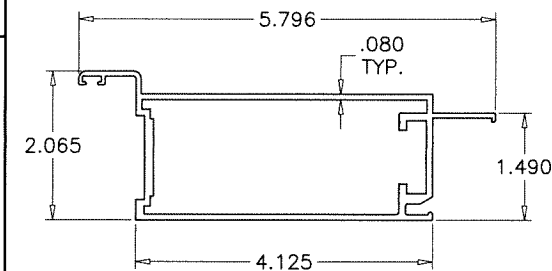
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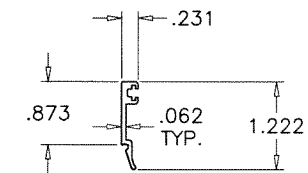
E6 JAMB STILE



E9 ASTRAGAL STILE (ACTIVE)

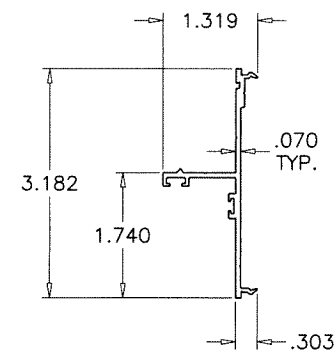


(E10) ASTRAGAL STILE (INACTIVE)

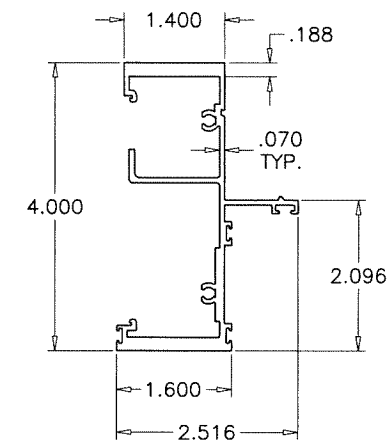


(E15)

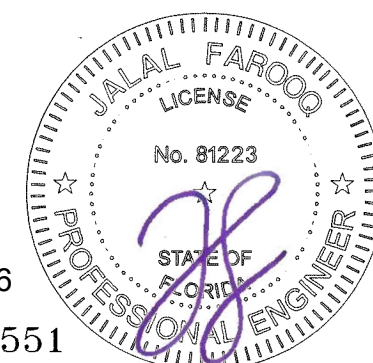
GLASS STOP (INSUL. GLASS)



(E16) SNAP IN FILLER



(E22) MULLION



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FL #22551

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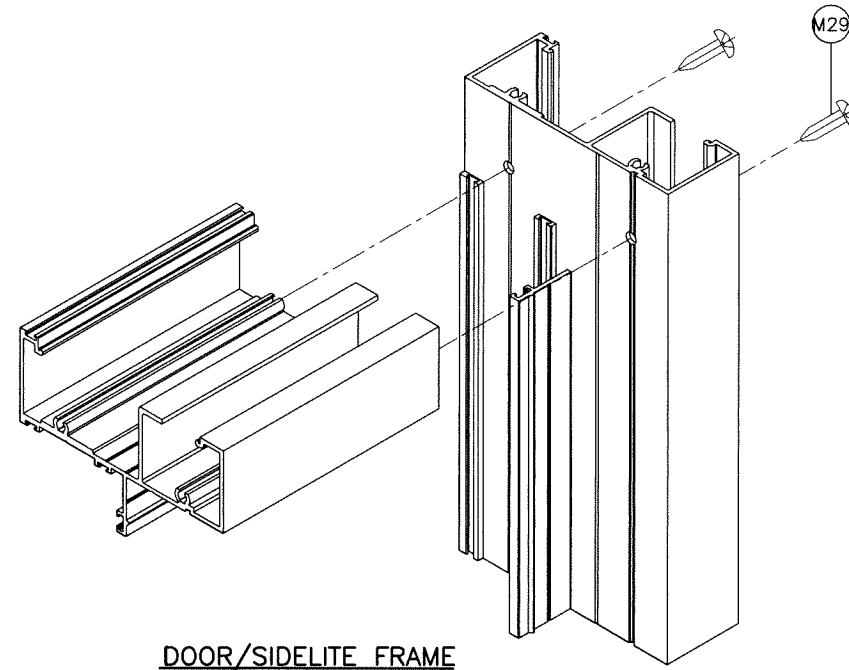
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chk. by:

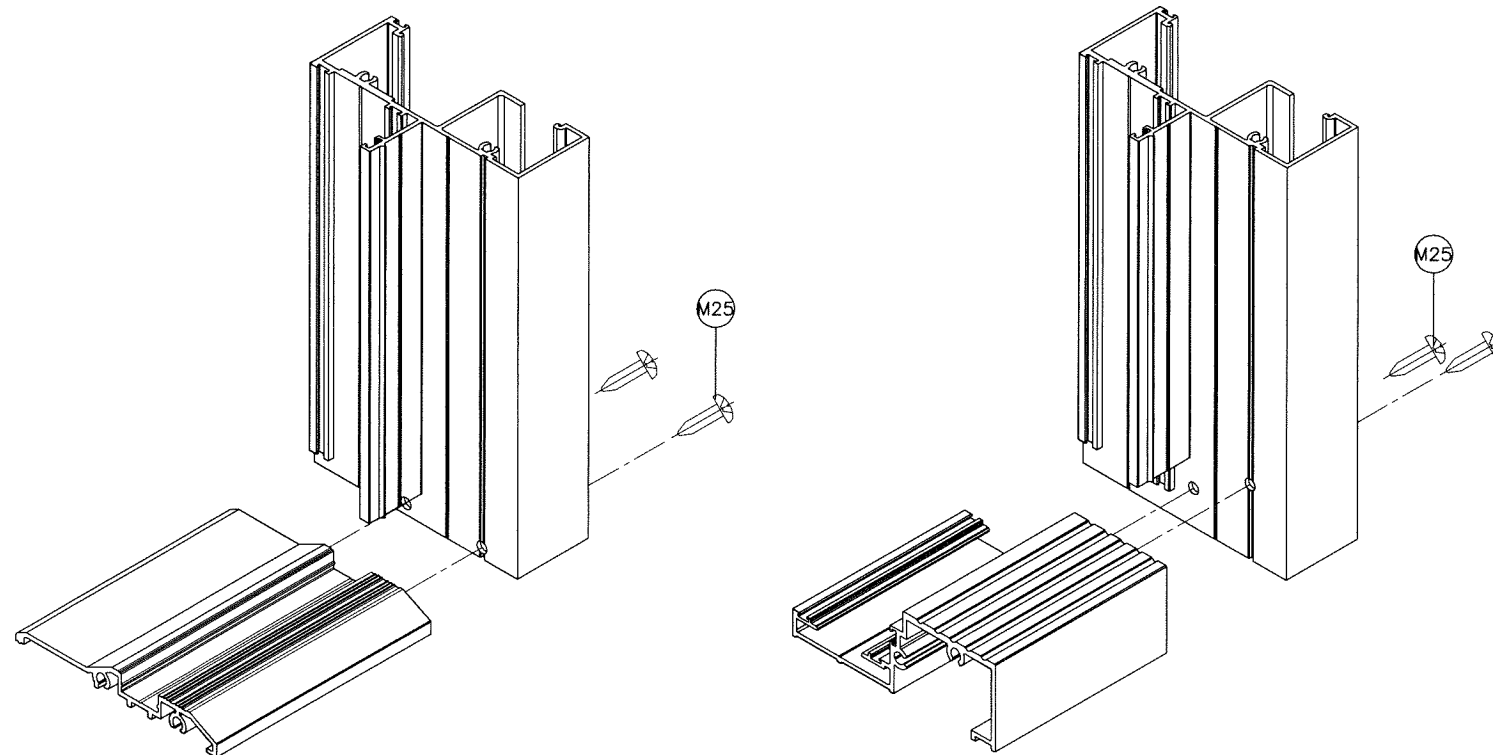
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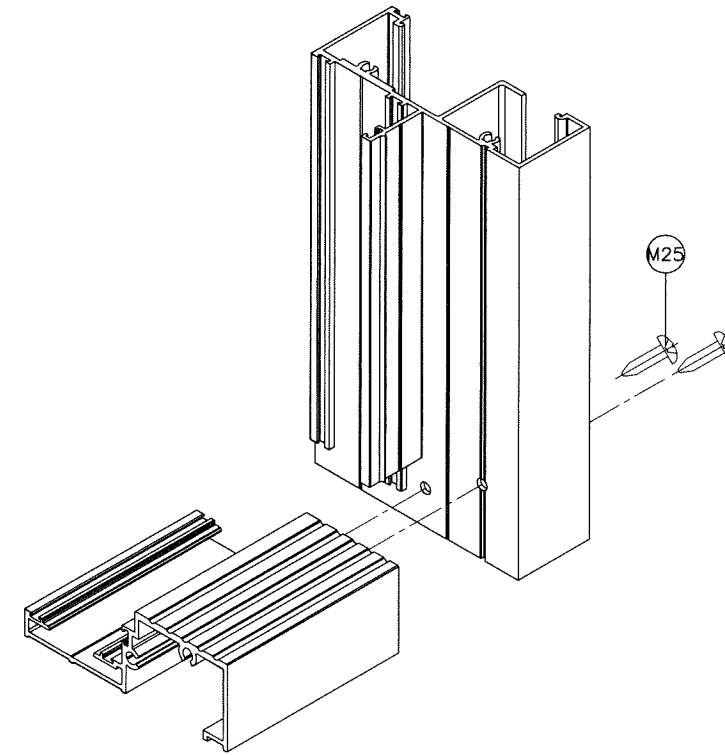
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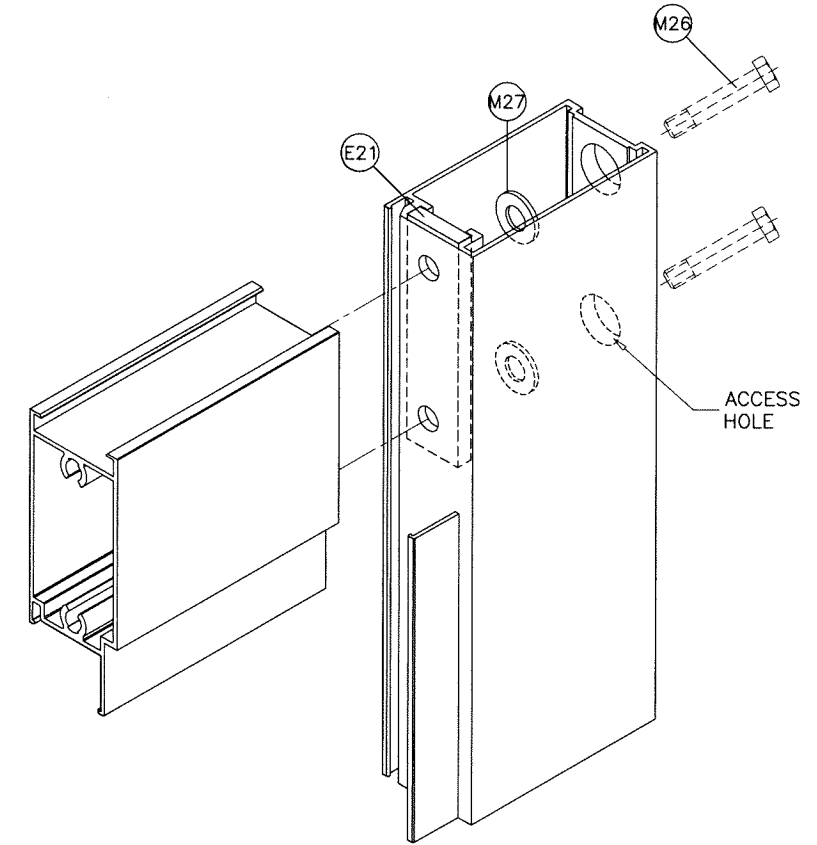
DOOR/SIDELITE FRAME
TOP CORNER



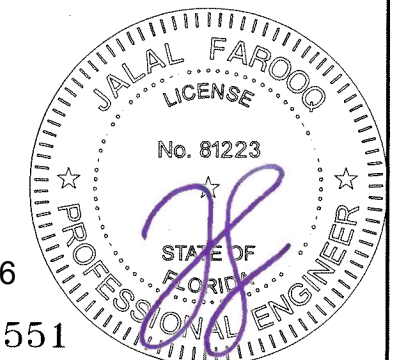
DOOR FRAME
BOTTOM CORNER



DOOR/SIDELITE FRAME
BOTTOM CORNER



DOOR LEAF CORNER
SIDELITE PANEL CORNER



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ES-EL300-9 ALUMINUM OUTSWING DOOR (N.I.)

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