

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

ES-46T THERMAL
ALUMINUM OUTSWING ENTRANCE DOOR

SINGLE (X) AND DOUBLE (XX) LEAF DOORS W/O TRANSOM SEE SHEETS 2.
SINGLE (O/X) AND DOUBLE (O/XX) LEAF DOORS WITH TRANSOMS SEE SHEET 3.
SINGLE SIDELITE OR SINGLE AND DOUBLE LEAF DOORS WITH SIDELITES SEE
SHEETS 4 & 5.

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

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION
RESISTANCE IS REQUIRED.

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.

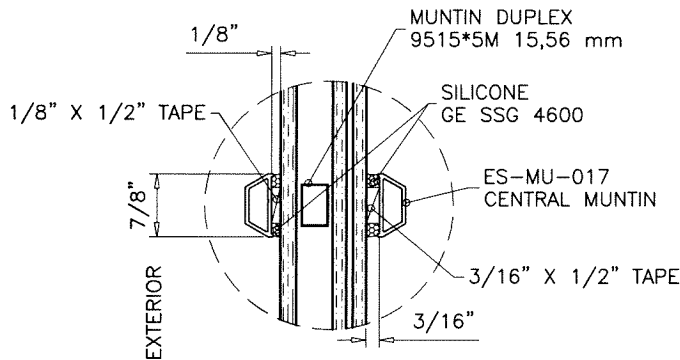
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

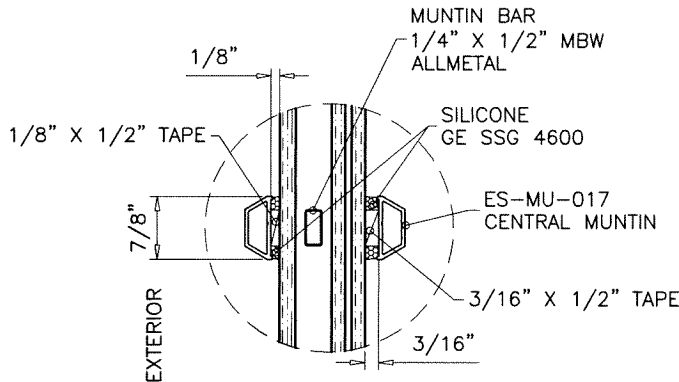
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
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.



ALUMINUM MUNTINS
OPTIONAL
SEE SHEET 1.1 FOR GLAZING DETAILS



ALUMINUM MUNTINS
OPTIONAL
SEE SHEET 1.1 FOR GLAZING DETAILS

Sealed: 03/20/2026

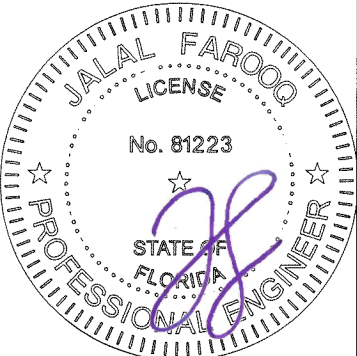
FL #21835

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.

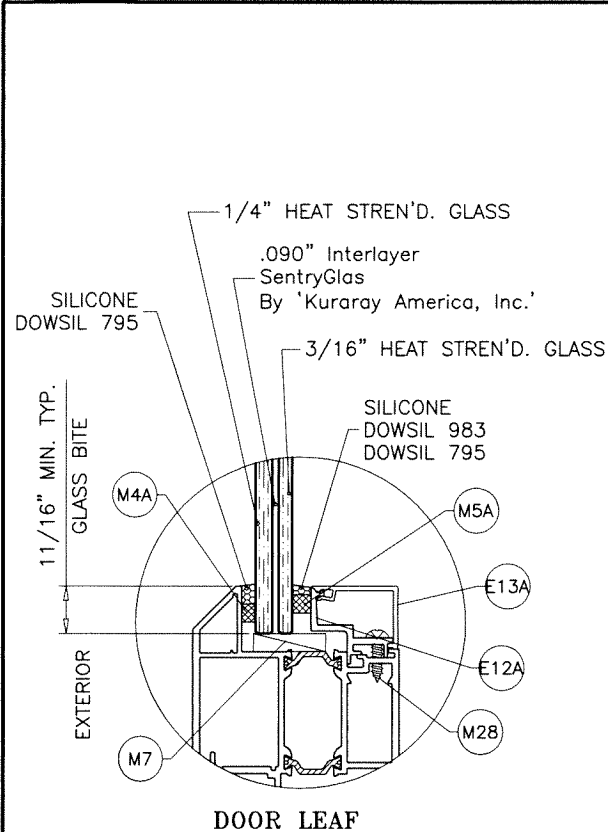
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



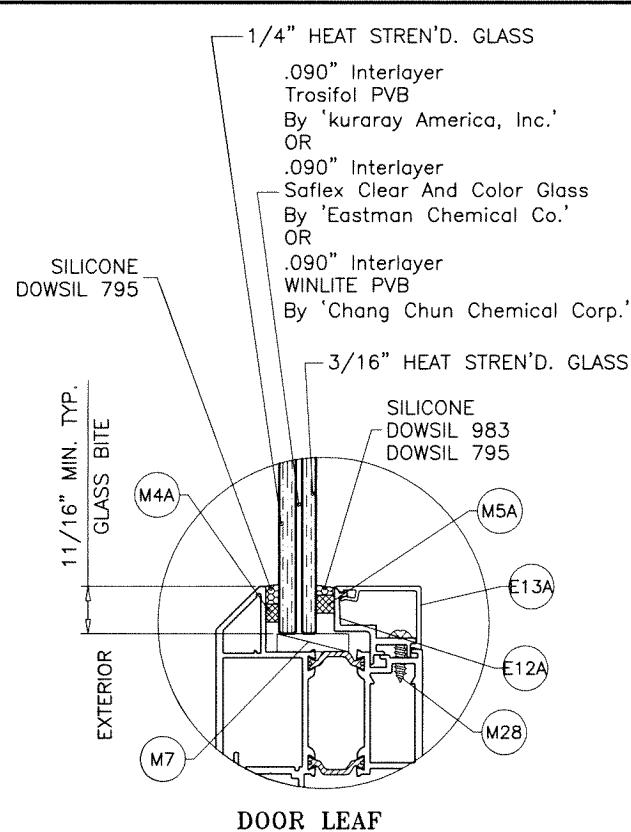
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W17-07ES

ES-46T THERMAL ALUM FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

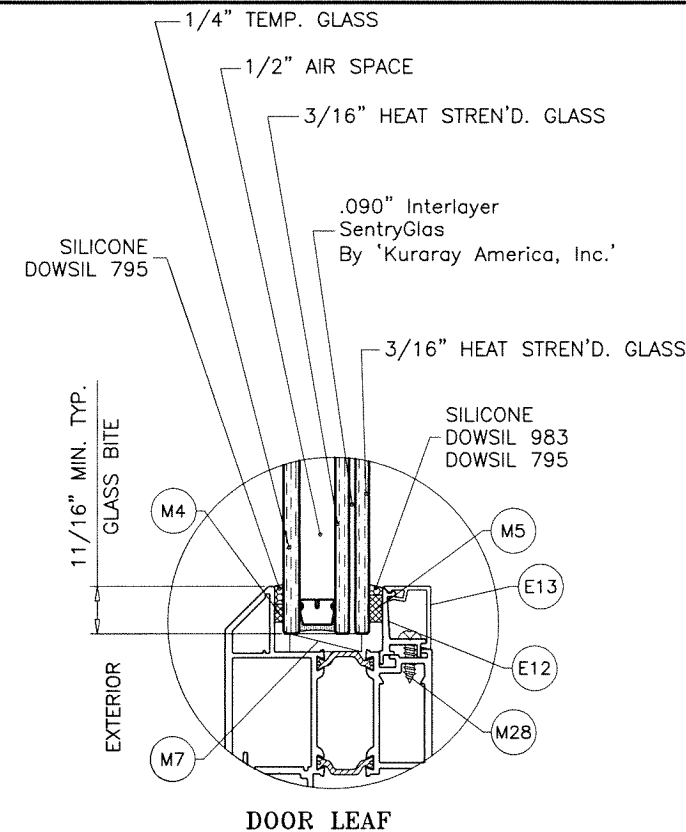
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G	02.03.21				LAM. GLASS OPTION ADDED
H	07.31.23				UPDATED TO 2023 FBC
I	08.10.24				WINLITE INTERLAYER ADDED
J	02.27.26				INSUL. GLASS MUNTIN ADDED
date:		01-02-17			
scale:		3/8" = 1"			
dr. by:		TARIQ			
chk. by:					
drawing no.		W17-07			
sheet		1 of 15			



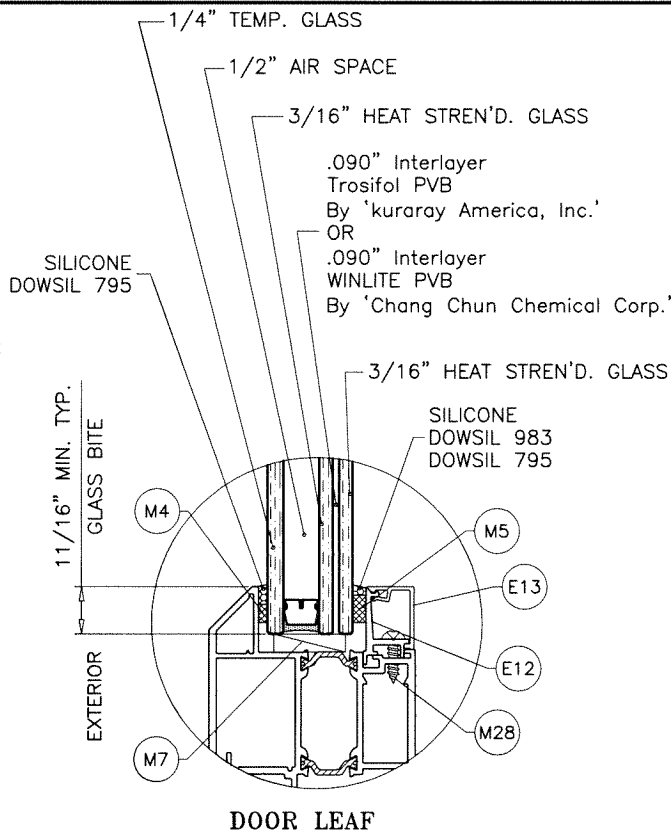
DOOR LEAF



DOOR LEAF



DOOR LEAF



DOOR LEAF

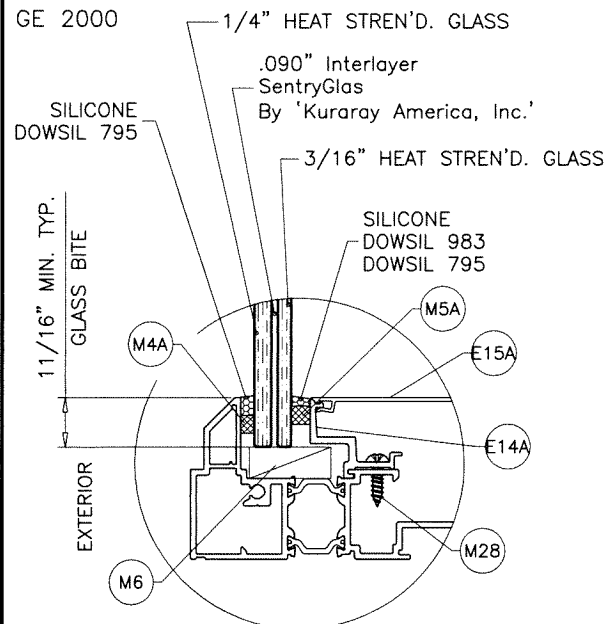
1/2" AIR SPACE CONSISTING OF:

SPACER:

'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.

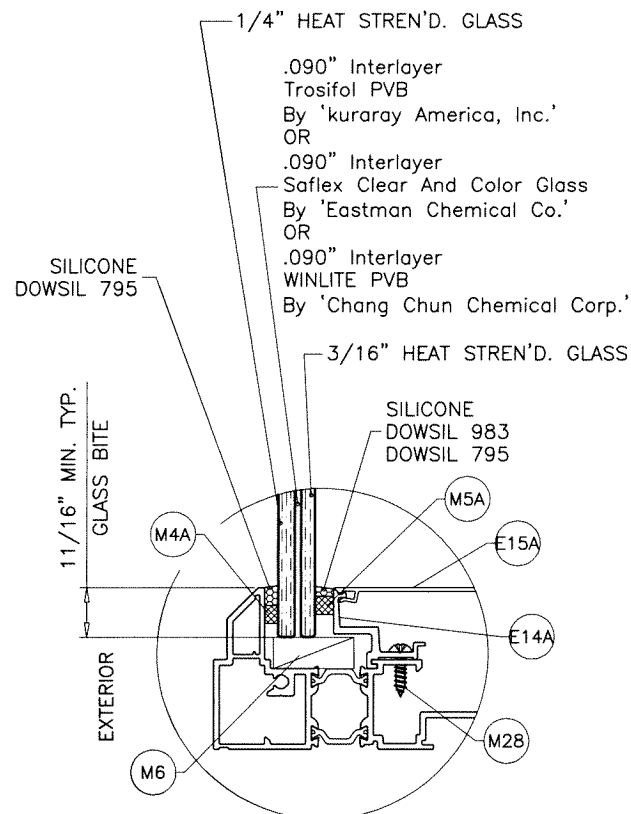
PERIMETER SEALANT:

SILICONE
DOWSIL 791
GE 2000



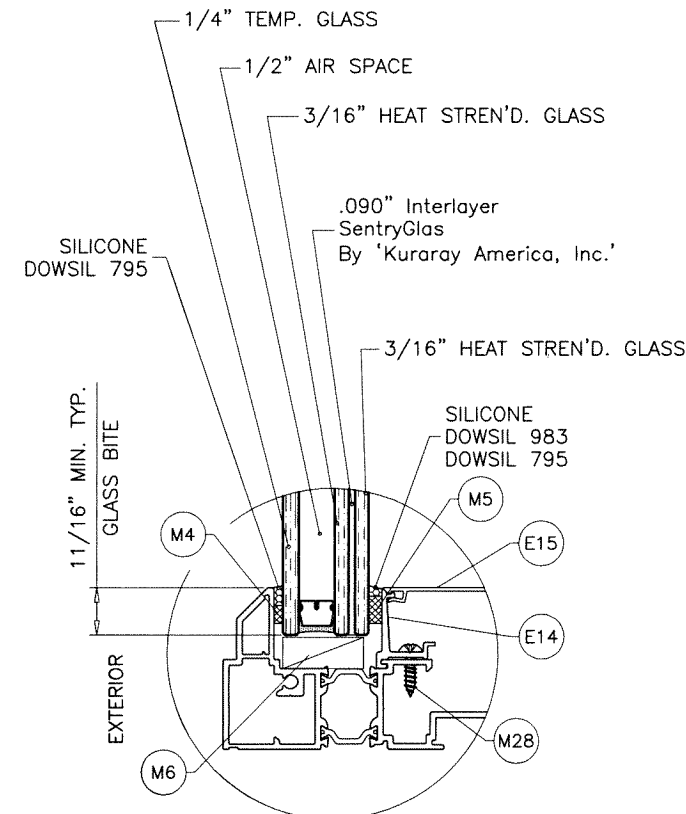
TRANSOM/SIDELITE

GLASS TYPE 'G1'
1/2" OVERALL LAM. GLASS



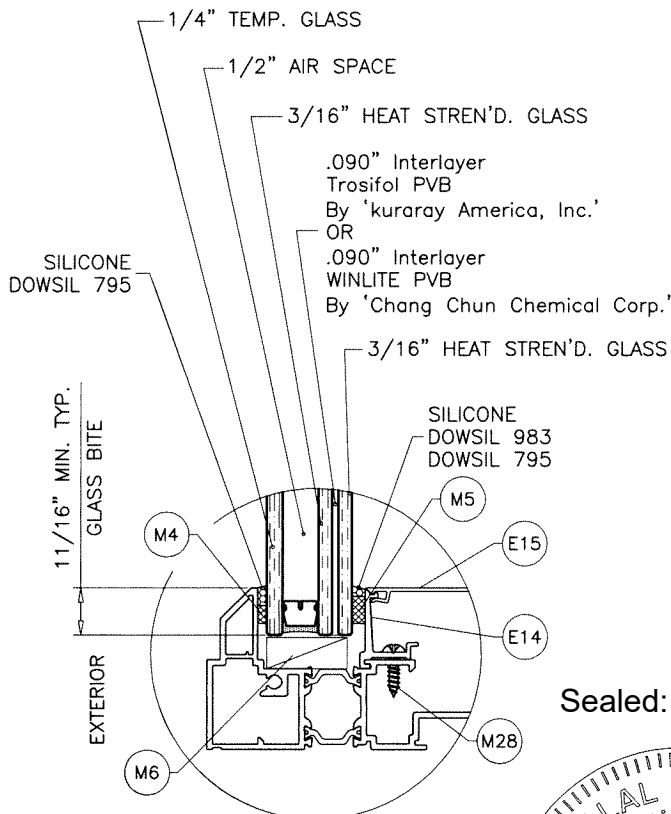
TRANSOM/SIDELITE

GLASS TYPE 'G3'
1/2" OVERALL LAM. GLASS



TRANSOM/SIDELITE

GLASS TYPE 'G1i'
1-3/16" OVERALL INSUL. LAM. GLASS

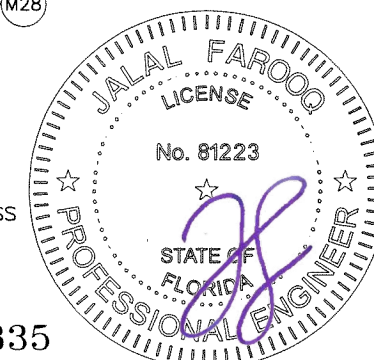


TRANSOM/SIDELITE

GLASS TYPE 'G3i'
1-3/16" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

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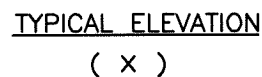
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ES-46T THERMAL ALUM FRENCH DOOR (L.M.I.)

revisions:	no	date	by	description

date: 01-02-17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

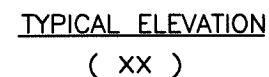
drawing no.
W17-07
sheet 1.1 of 15



DOORS LOAD CAPACITY - PSF SINGLE DOORS (X)			
SINGLE DOOR (X) DIMS.		GLASS TYPES 'G1i' & 'G3','G3i'	
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)
41-3/16"	98"	90.0	100.0

* REQUIRES EXTRA HINGE AT MID HEIGHT

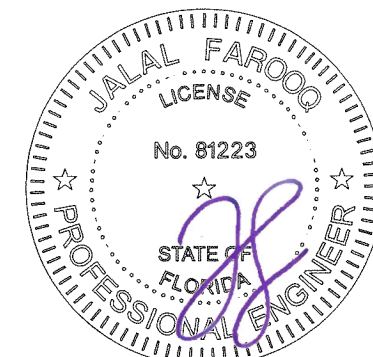
GLASS D.L.O. FORMULAE:
D.L.O. WIDTH = FRAME WIDTH - 9.750" (X DOORS)
= (FRAME WIDTH - 17.125")/2 (XX DOORS)
D.L.O. HEIGHT = FRAME HEIGHT - 9.375"



DOORS LOAD CAPACITY – PSF DOUBLE DOORS (XX)			
DOUBLE DOOR (XX) DIMS.		GLASS TYPE 'G1i'	
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(–)
74"	120"	80.0	80.0
ASTRAGAL STILE DETAIL 'E1'			

DOORS LOAD CAPACITY – PSF DOUBLE DOORS (XX)			
DOUBLE DOOR (XX) DIMS.		GLASS TYPE 'G1'	
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(–)
76–1/2"	120"	80.0	80.0
ASTRAGAL STILE DETAIL 'E1'			

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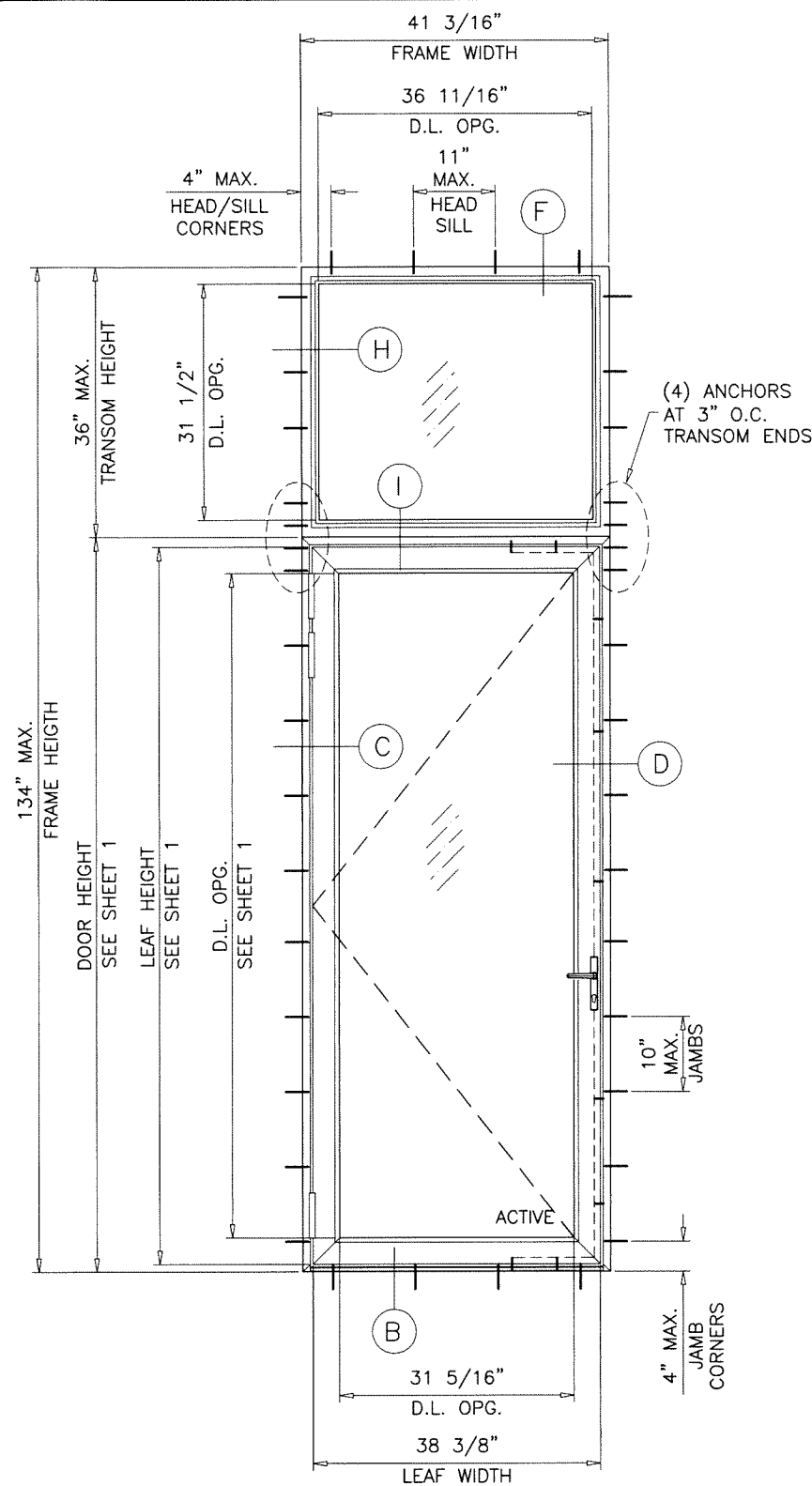
AL-FAROOQ CORPORATION
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(C.A.N. 3538)

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COMP-ANL\W17-0/ES

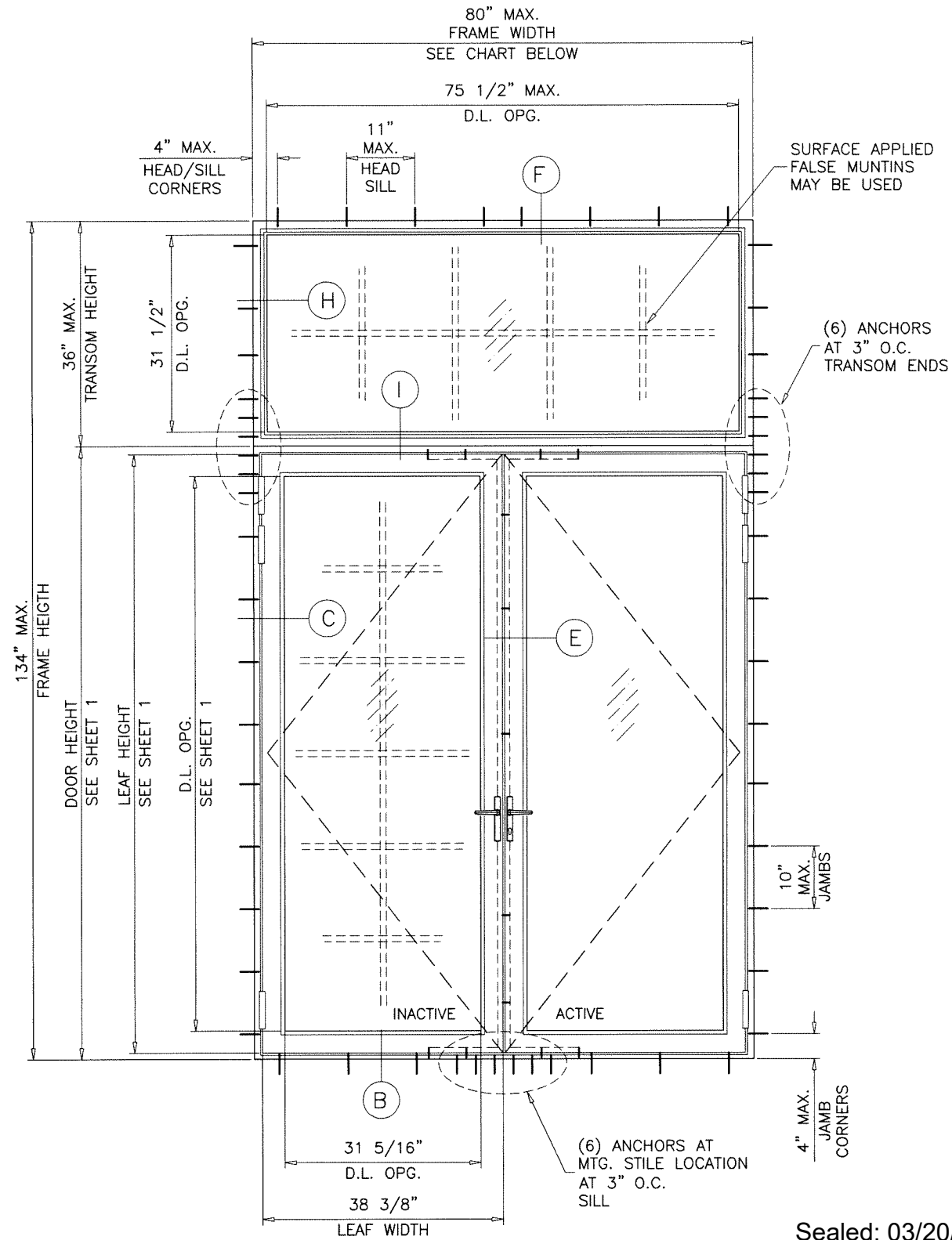
drawing no.		date: 01-02-17		revisions:	
W17-07				no	by description
sheet 2 of 15		scale: 1/2"=1'-0"			
		dr. by: TARIQ			
		chk. by:			



TYPICAL ELEVATION
(O/X)

TRANSOM LOAD CAPACITY - PSF SINGLE DOORS WITH TRANSOM (O/X)			
FRAME (O/X) DIMS.		GLASS TYPES 'G1i' & 'G3i'	
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)
41-3/16"	134"	90.0	100.0

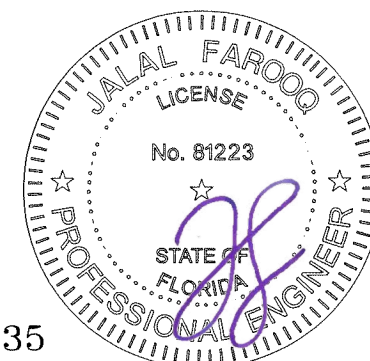
NOTE:
FOR TRANSOM CAPACITY SEE CHARTS ABOVE.
FOR DOOR CAPACITIES SEE SHEET 2.
LOWER VALUES FROM TRNSOM CHARTS OR
DOOR CAPACITY CHART WILL APPLY.



TYPICAL ELEVATION
(O/XX)

TRANSOM LOAD CAPACITY - PSF DOUBLE DOORS WITH TRANSOM (O/XX)			
FRAME (O/XX) DIMS.		GLASS TYPES 'G1i' & 'G3i'	
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)
66"	134"	90.0	100.0
72"		79.8	79.8
80"		57.5	57.5

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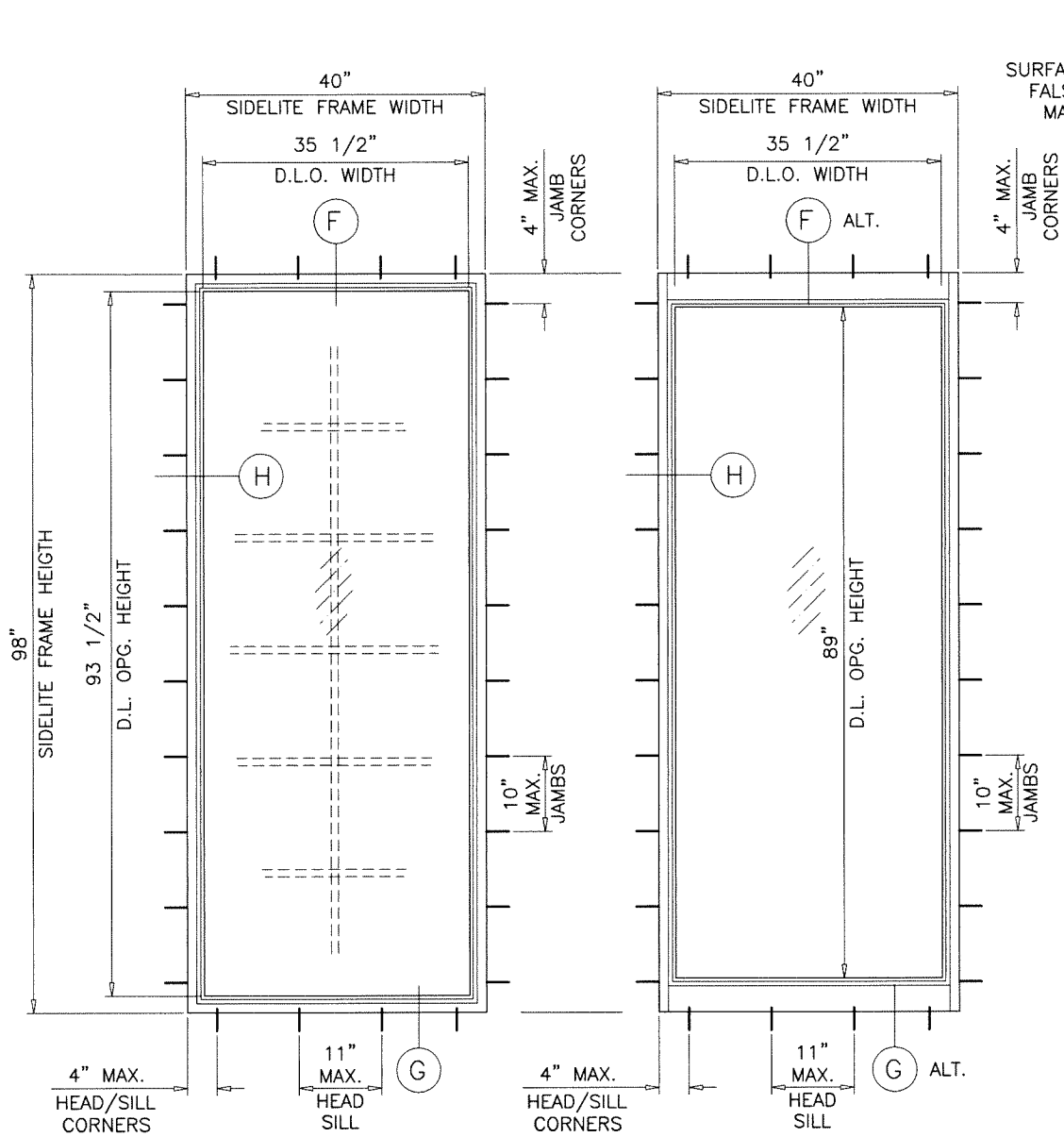
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no	date	by	description

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chk. by:

drawing no.
W17-07

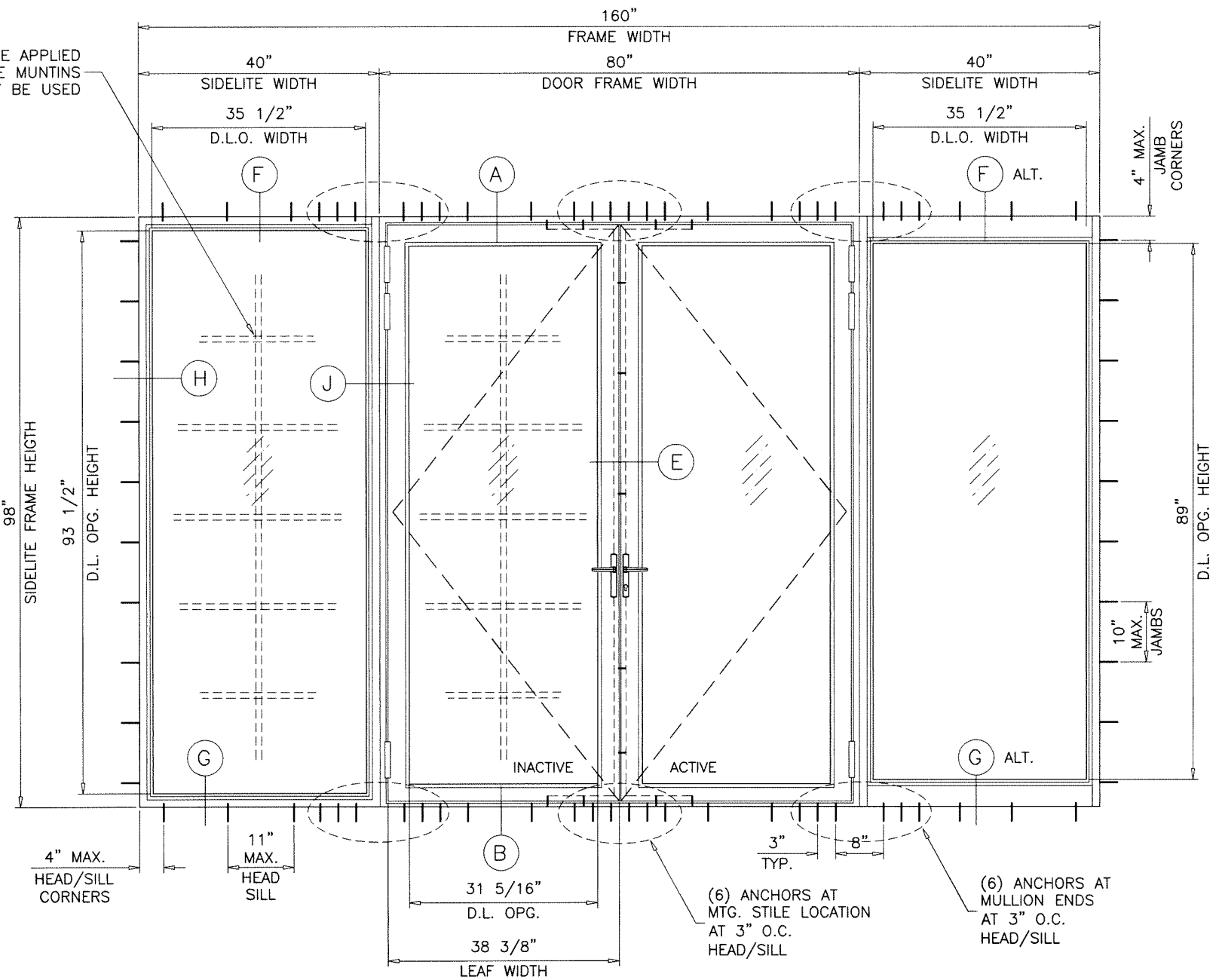
sheet 3 of 15



TYPICAL ELEVATION
(O)

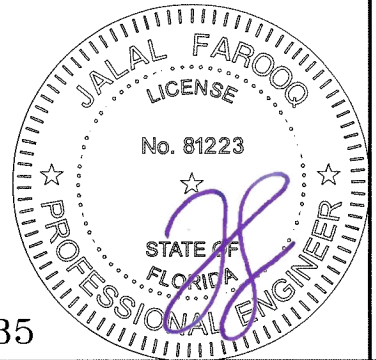
SIDELITE LOAD CAPACITY - PSF STATIONARY PANEL (O)			
SIDELITE (O) DIMS.		THRESHOLD TYPE	
		STD. SILL	
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)
40"	98"	90.0	100.0

D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT - 4.50"
D.L.O. WIDTH (SIDE LITE) = FRAME WIDTH - 4.50"



TYPICAL ELEVATION
(O-XX-O)

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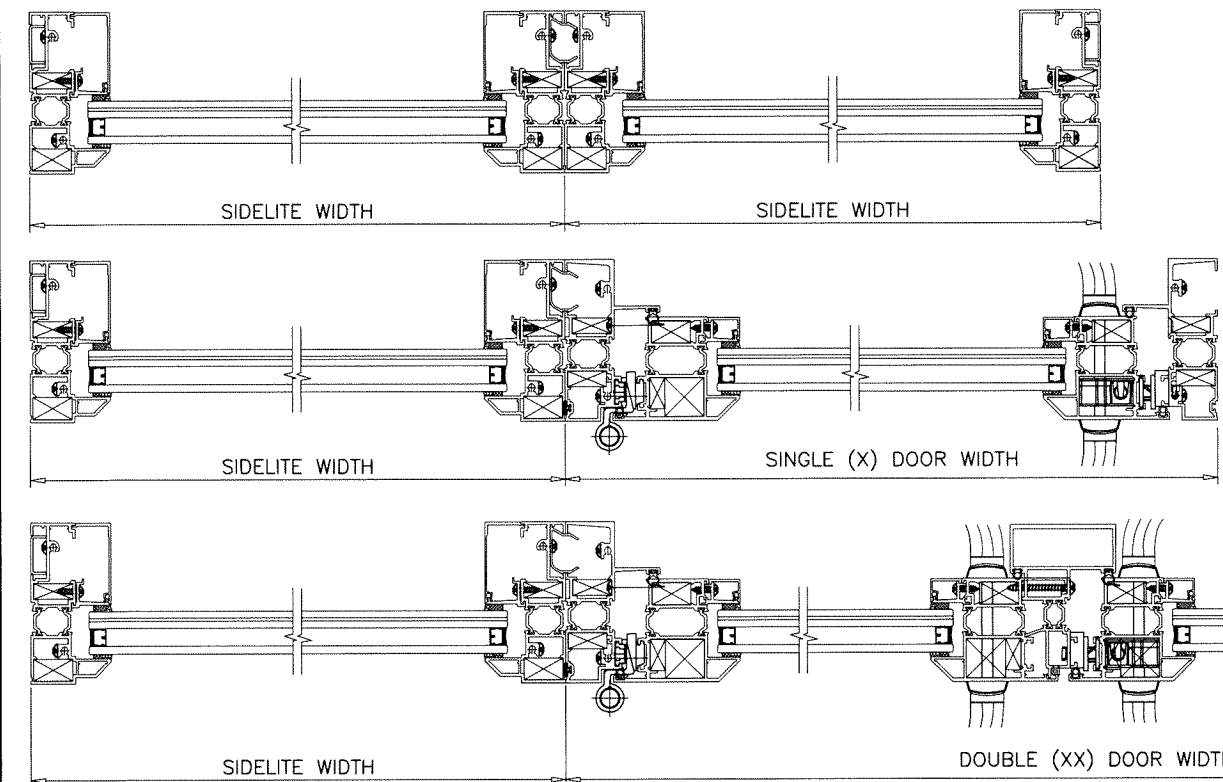
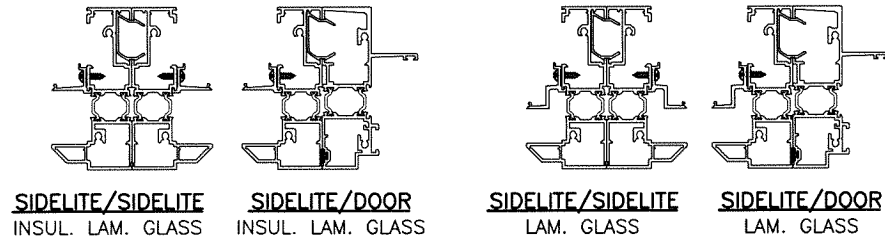
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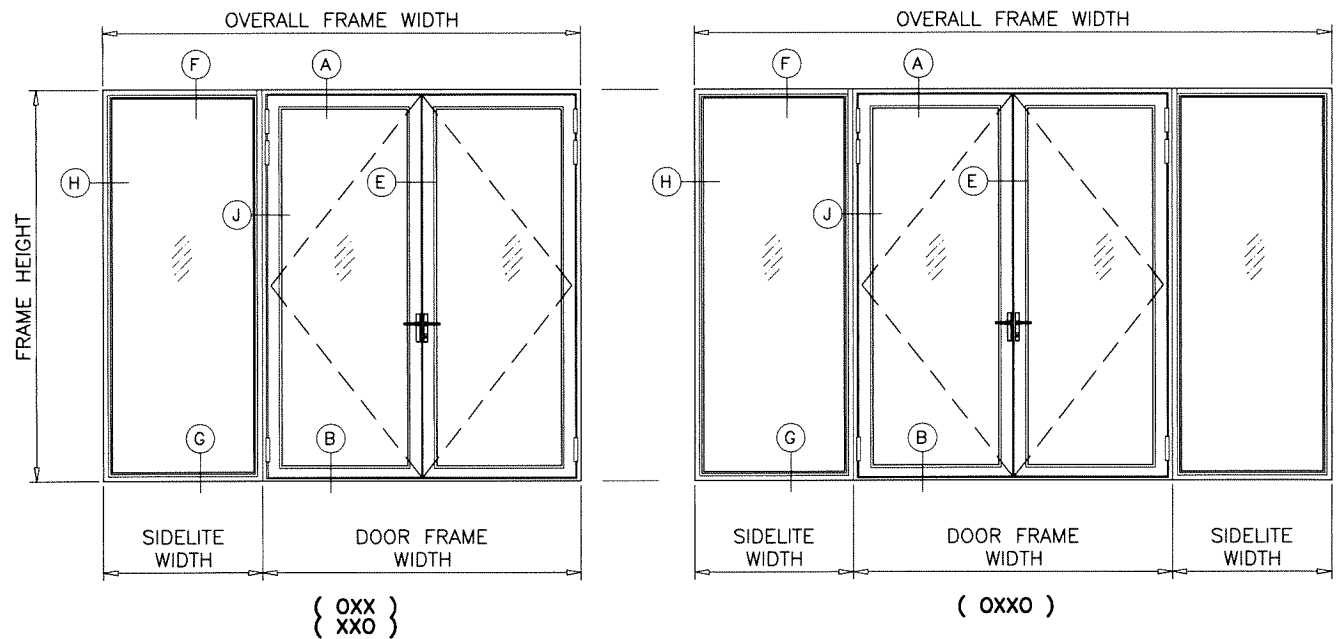
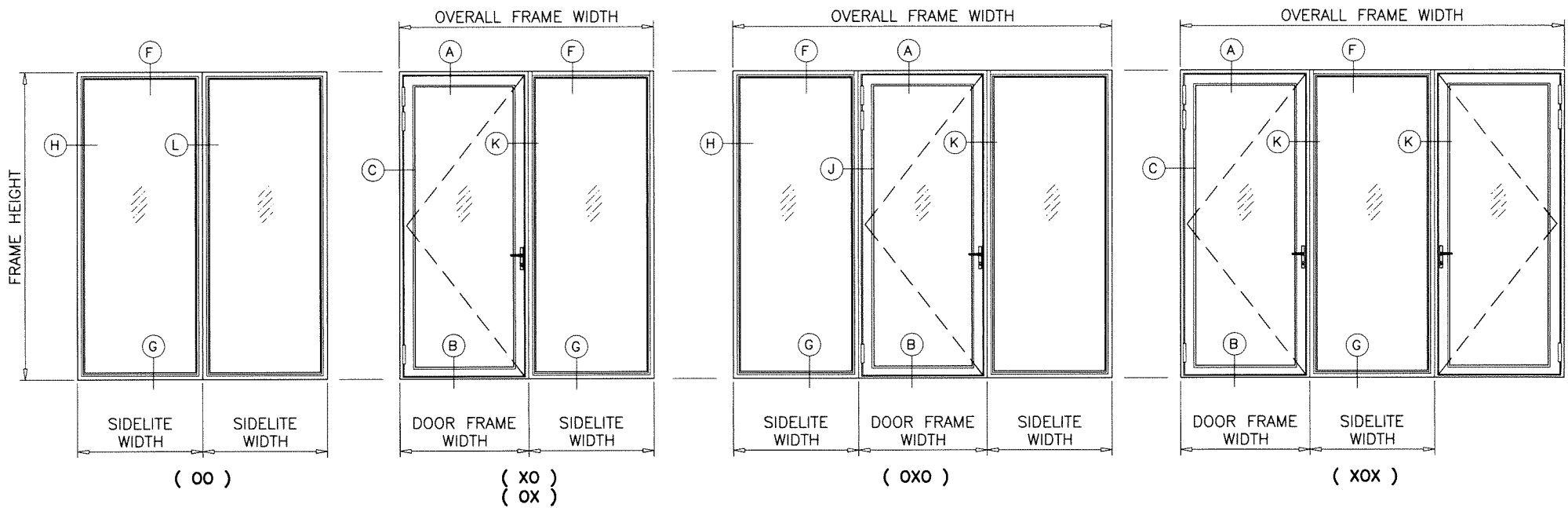
sheet 4 of 15

FL #21835

DESIGN LOAD CAPACITY - PSF SIDELITE TO SIDELITE OR DOOR TO SIDELITE					
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	INSUL. LAM. MULLION		LAM. GLASS MULLION	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
18	84	90.0	100.0	90.0	100.0
24		90.0	100.0	90.0	100.0
30		90.0	100.0	90.0	100.0
36		90.0	100.0	90.0	100.0
40		90.0	100.0	90.0	100.0
42		85.7	95.2	90.0	98.6
18	90	90.0	100.0	90.0	100.0
24		90.0	100.0	90.0	100.0
30		90.0	100.0	90.0	100.0
36		90.0	100.0	90.0	100.0
40		90.0	100.0	90.0	96.0
42		85.7	95.2	90.0	92.0
18	98	90.0	100.0	90.0	100.0
24		90.0	100.0	90.0	100.0
30		90.0	100.0	90.0	98.0
36		90.0	100.0	90.0	95.0
40		90.0	100.0	90.0	90.0

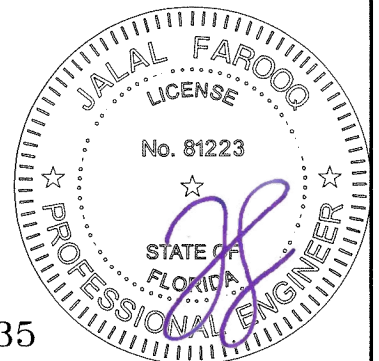


NOTE:
FOR DOORS CAPACITY SEE SHEET 2
FOR SIDELITE CAPACITIES SEE SHEET 4.
FOR SIDELITE MULLION CAPACITY SEE CHART ABOVE
LOWER VALUES FROM DOORS, SIDELITE OR
DOOR/SIDELITE MULLION CHART WILL APPLY TO
ENTIRE SYSTEM.



APPROVED CONFIGURATIONS

Sealed: 03/20/2026

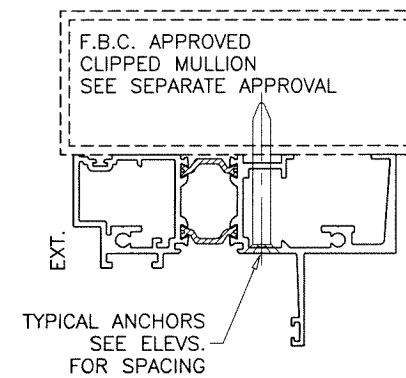
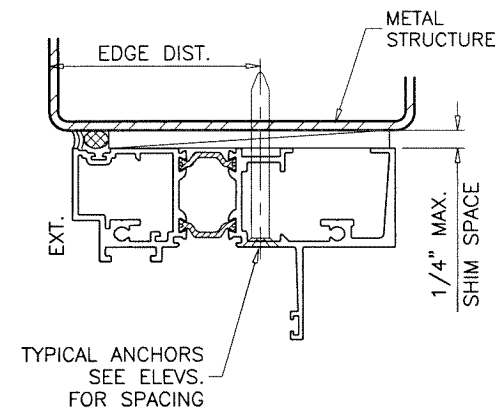
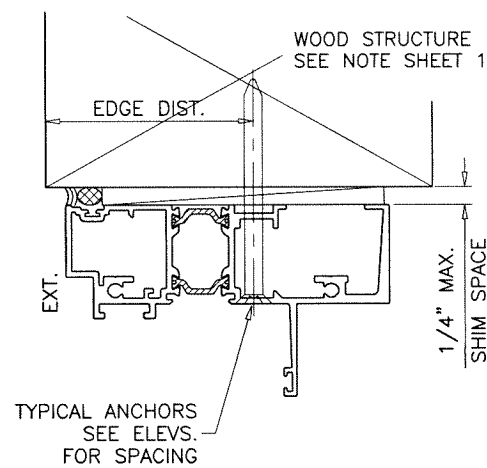
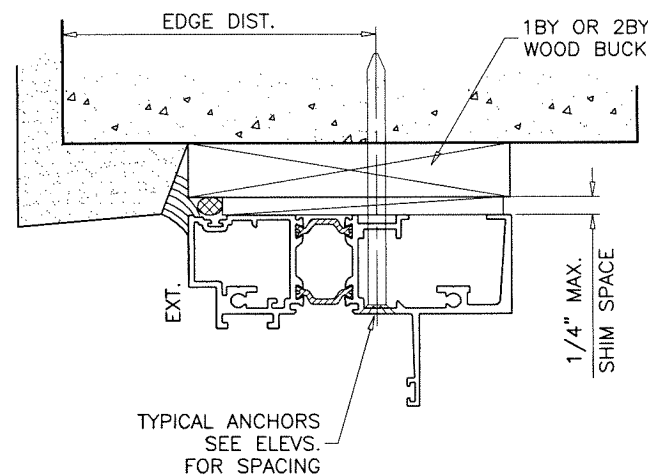


FL #21835

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AL-FAROOQ CORPORATION
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revisions:
no. date by description
1 01-02-17 1/2"=1'-0" TARIQ
dr. by: TARIQ
chk. by:
drawing no. **W17-07**
sheet 5 of 15



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

#14 DIA. CRETE-FLEX SS4 BY 'DEWALT' ($F_u=190$ KSI, $F_y=127$ KSI)

1/4" DIA. ULTRACON SS4 410 BY 'DEWALT' ($F_u=190$ KSI, $F_y=164$ KSI)

1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)

INTO WOOD STRUCTURES

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

THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS

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

1-3/8" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS

2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

1/4" DIA. DRIL-FLEX SELF DRILLING SCREWS BY 'DEWALT' (GRADE 5 CRS)

INTO METAL STRUCTURES (HEAD/JAMBS)

(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS

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)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS

(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS

ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.) (NO SHIMS)

STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.) (NO SHIMS)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

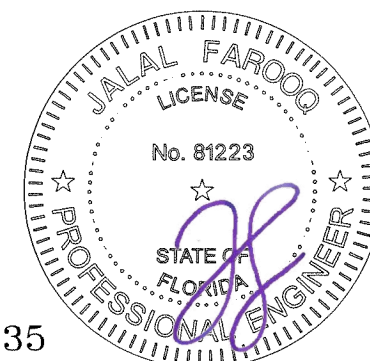
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.

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

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

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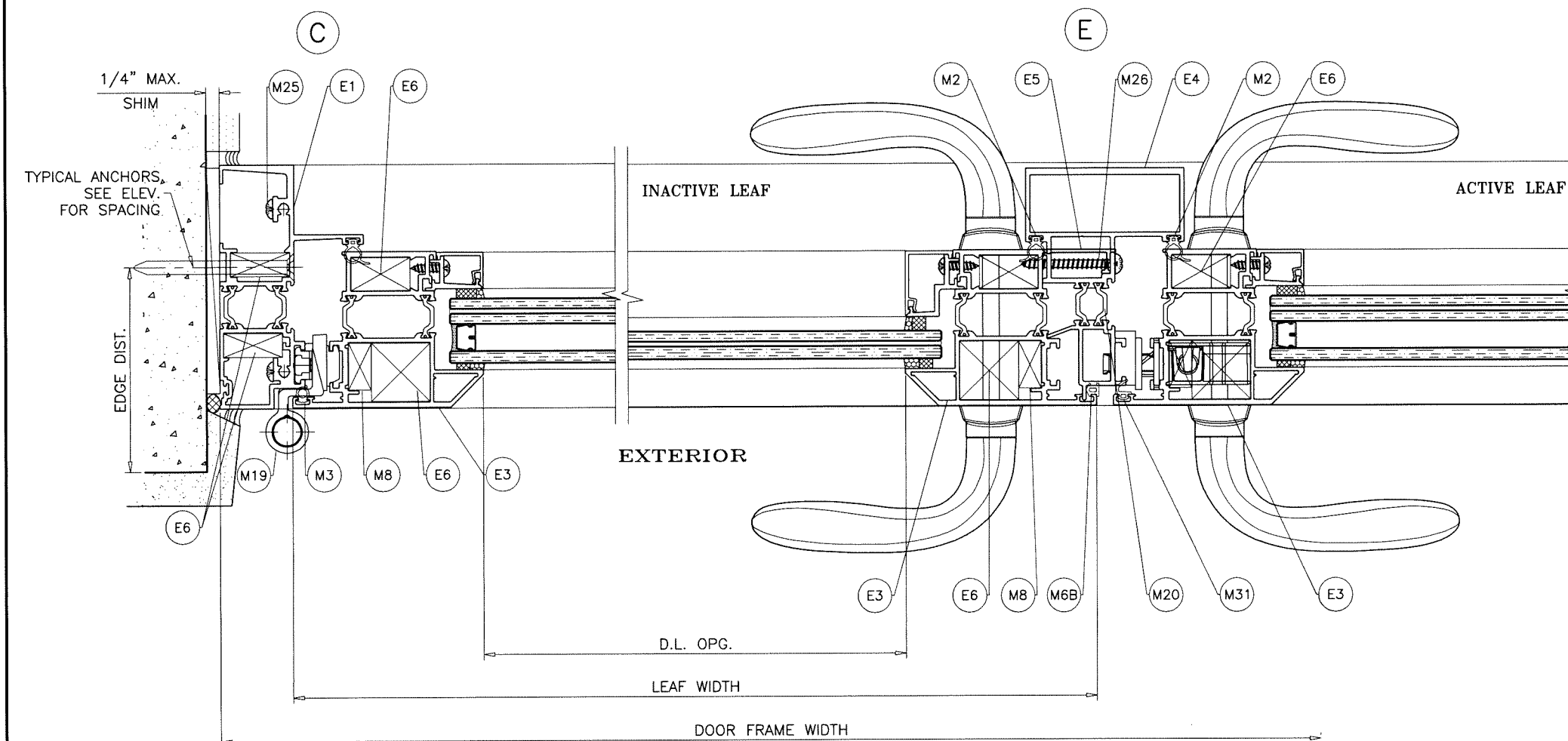
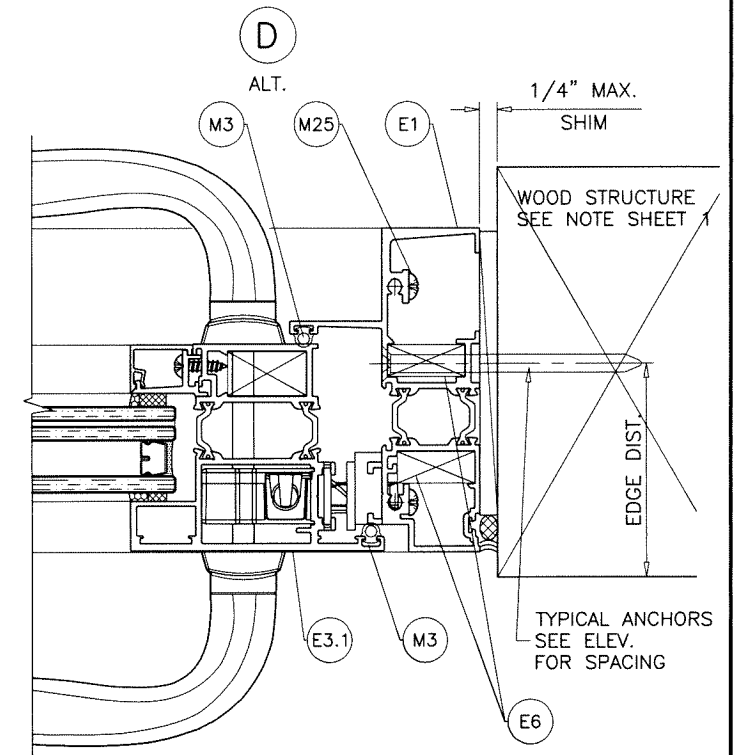
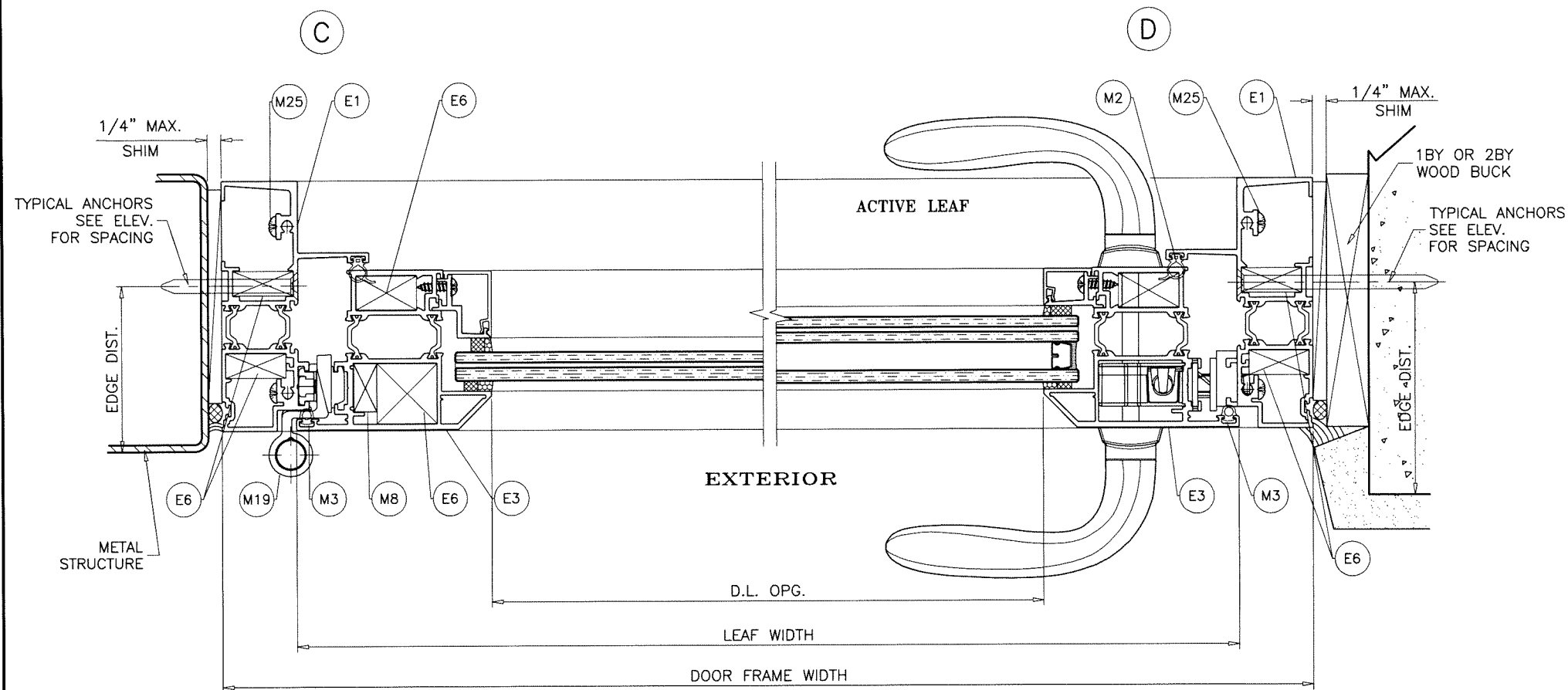
DOOR DETAILS



FL #21835

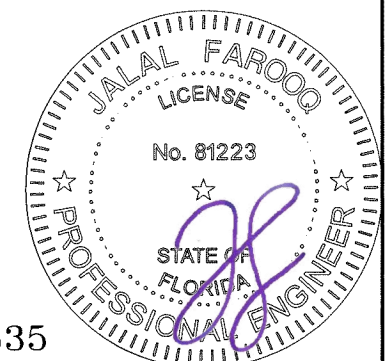
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.N. 3538)		ES-46T THERMAL ALUM FRENCH DOOR (L.M.I.)	
		E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
date: 01-02-17 scale: 3/8" = 1" dr. by: TARIQ chk. by:	revisions: no. date by description	drawing no. W17-07 sheet 7 of 15	

COMP-ANL\W17-07ES



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DOOR DETAILS



FL #21835

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ES-46T THERMAL ALUM FRENCH DOOR (L.M.I.)

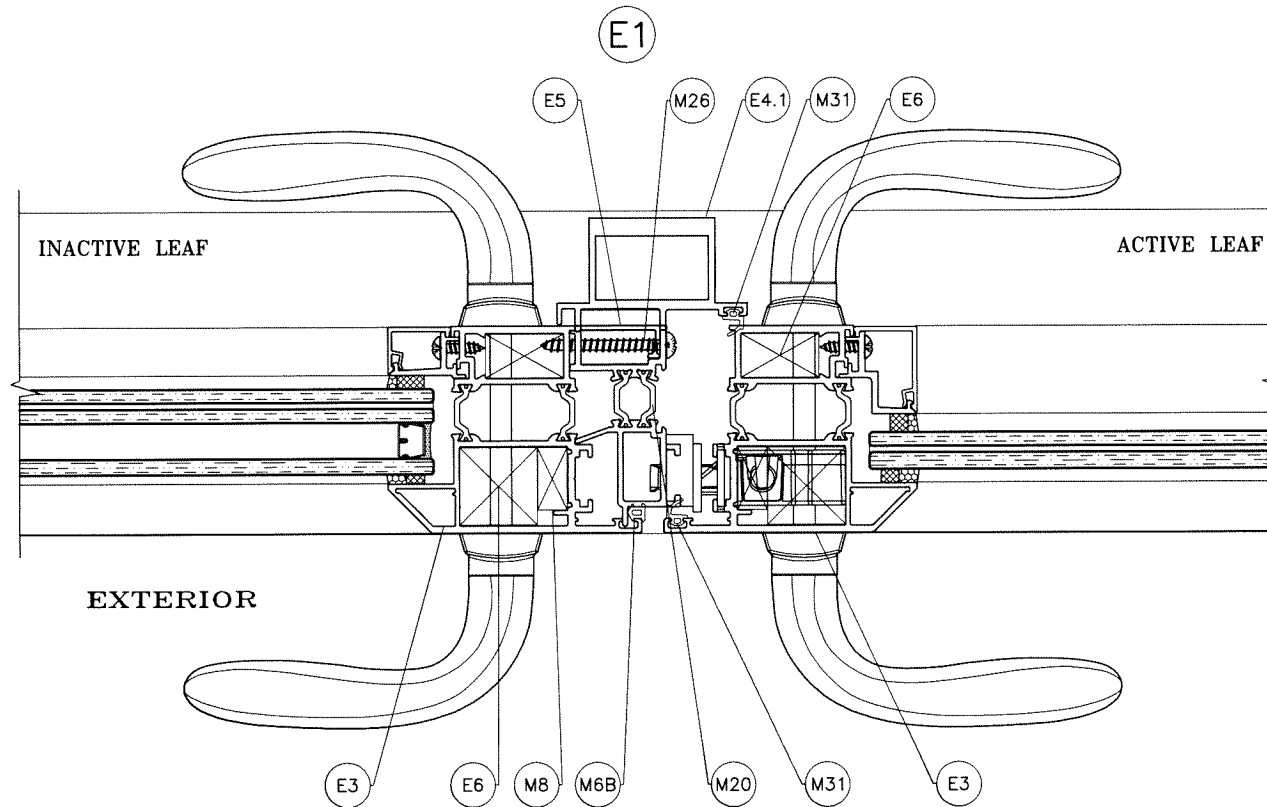
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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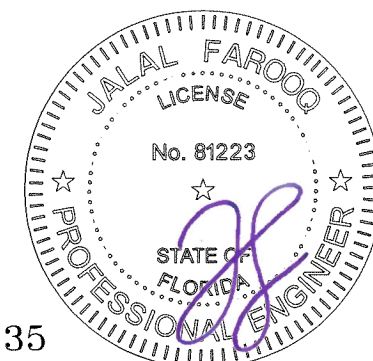
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W17-07

sheet 8 of 15



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DOOR DETAILS



FL #21835

AL-FAROOQ CORPORATION
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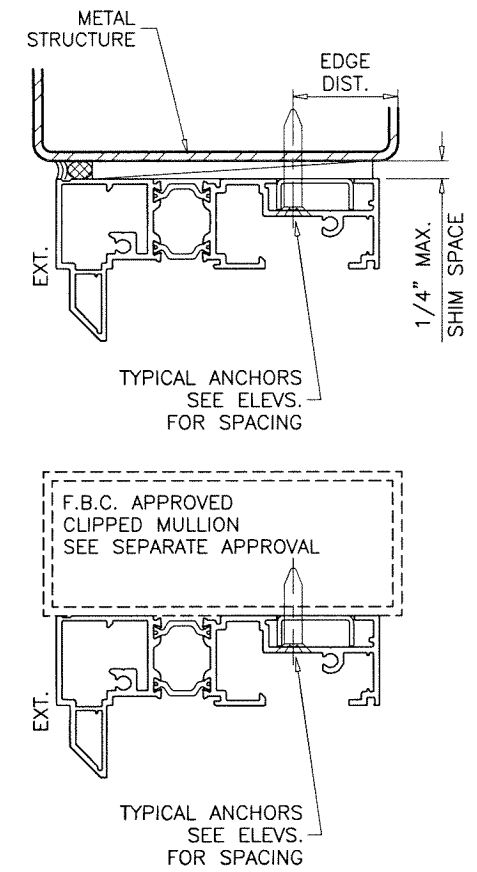
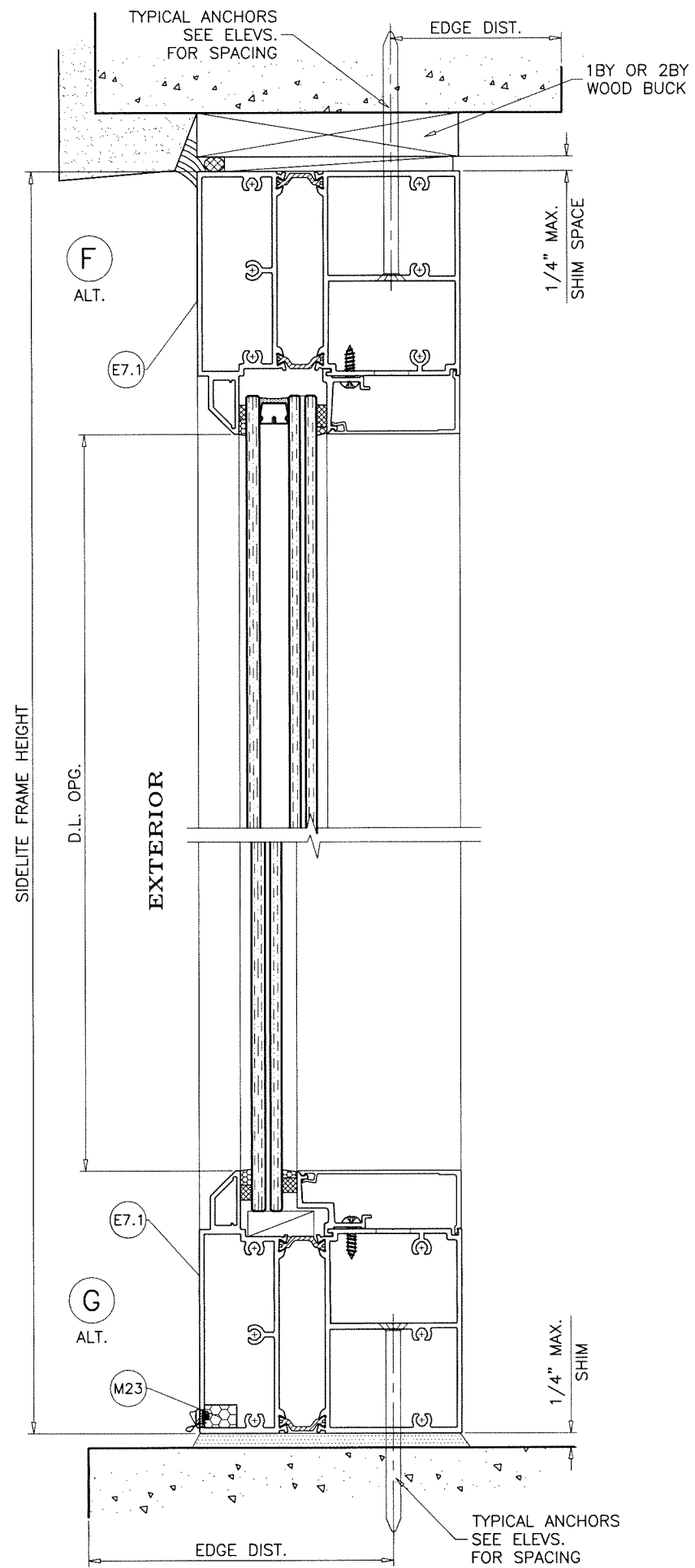
ES-46T THERMAL ALUM FRENCH DOOR (L.M.I.)

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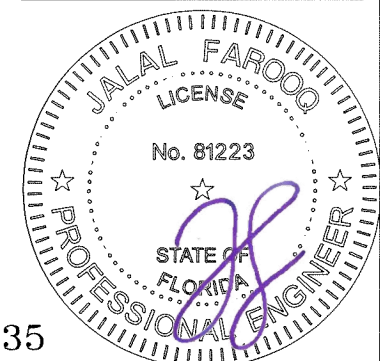
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SIDELITE DETAILS



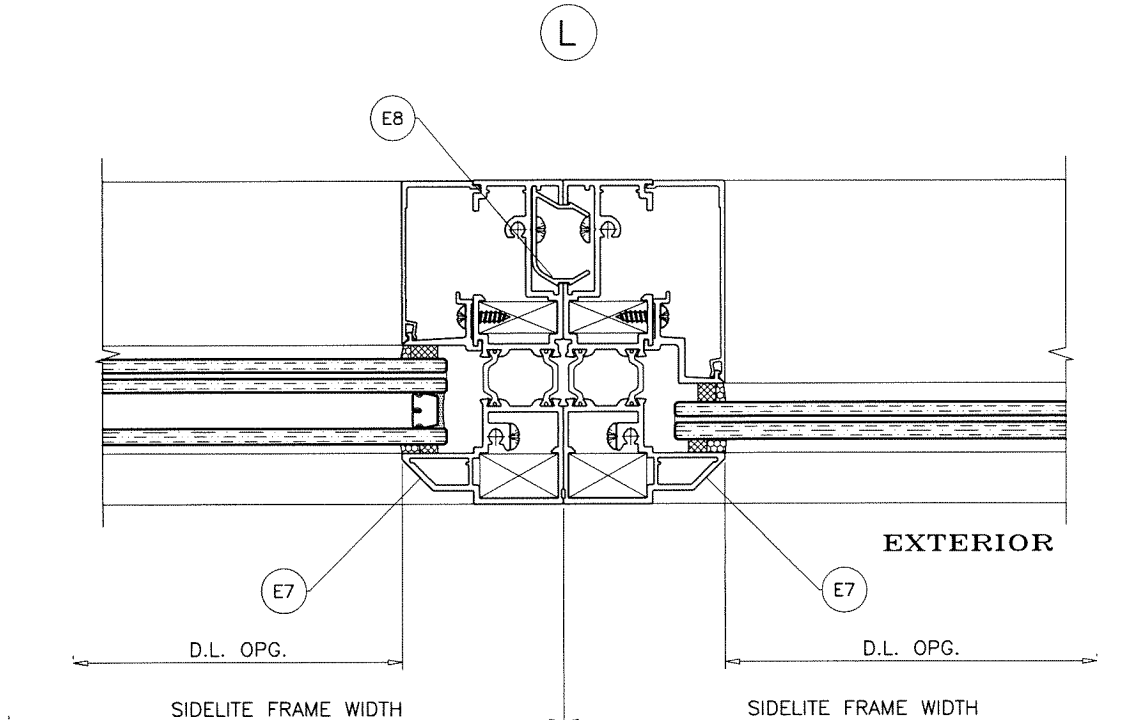
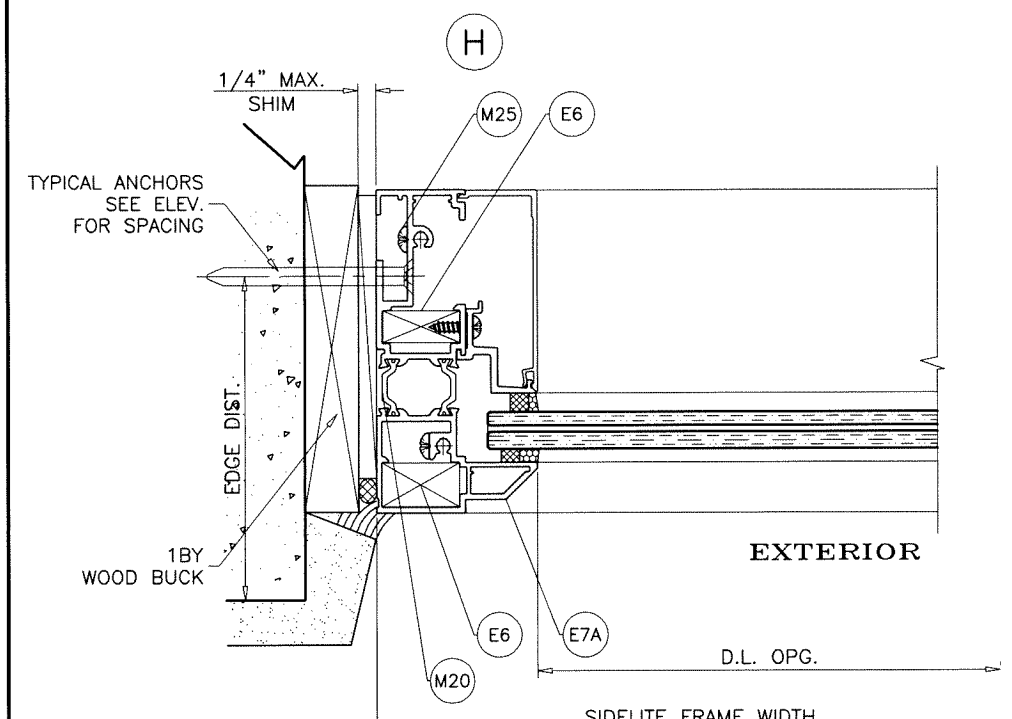
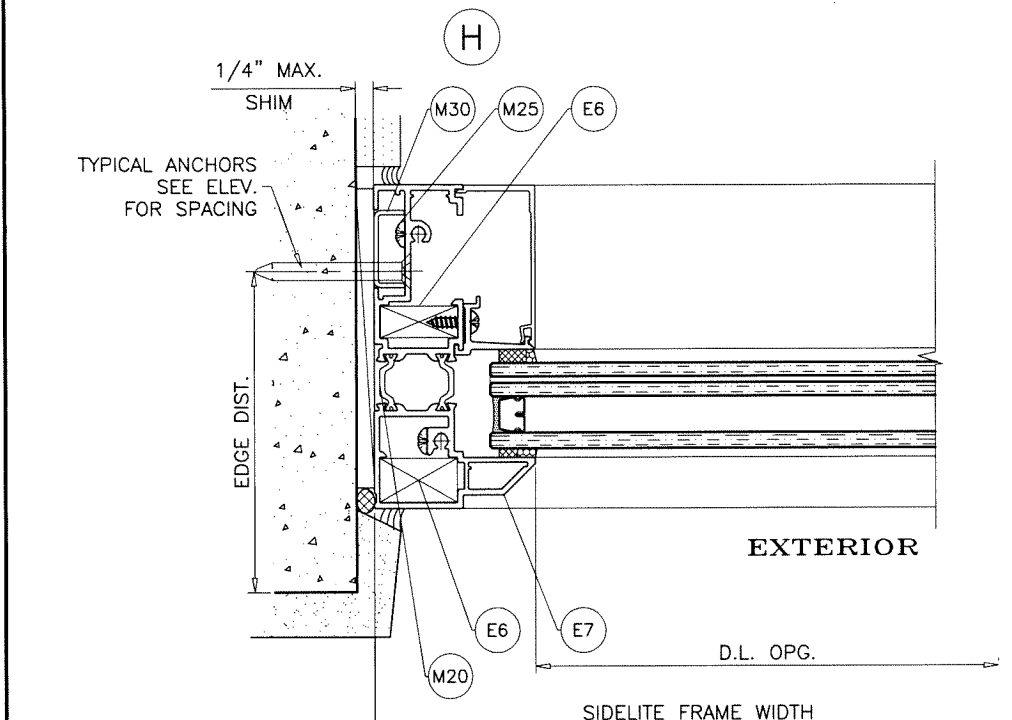
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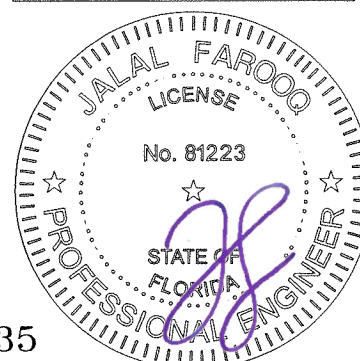
FAX. (305) 638-5158

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SIDELITE DETAILS



FL #21835

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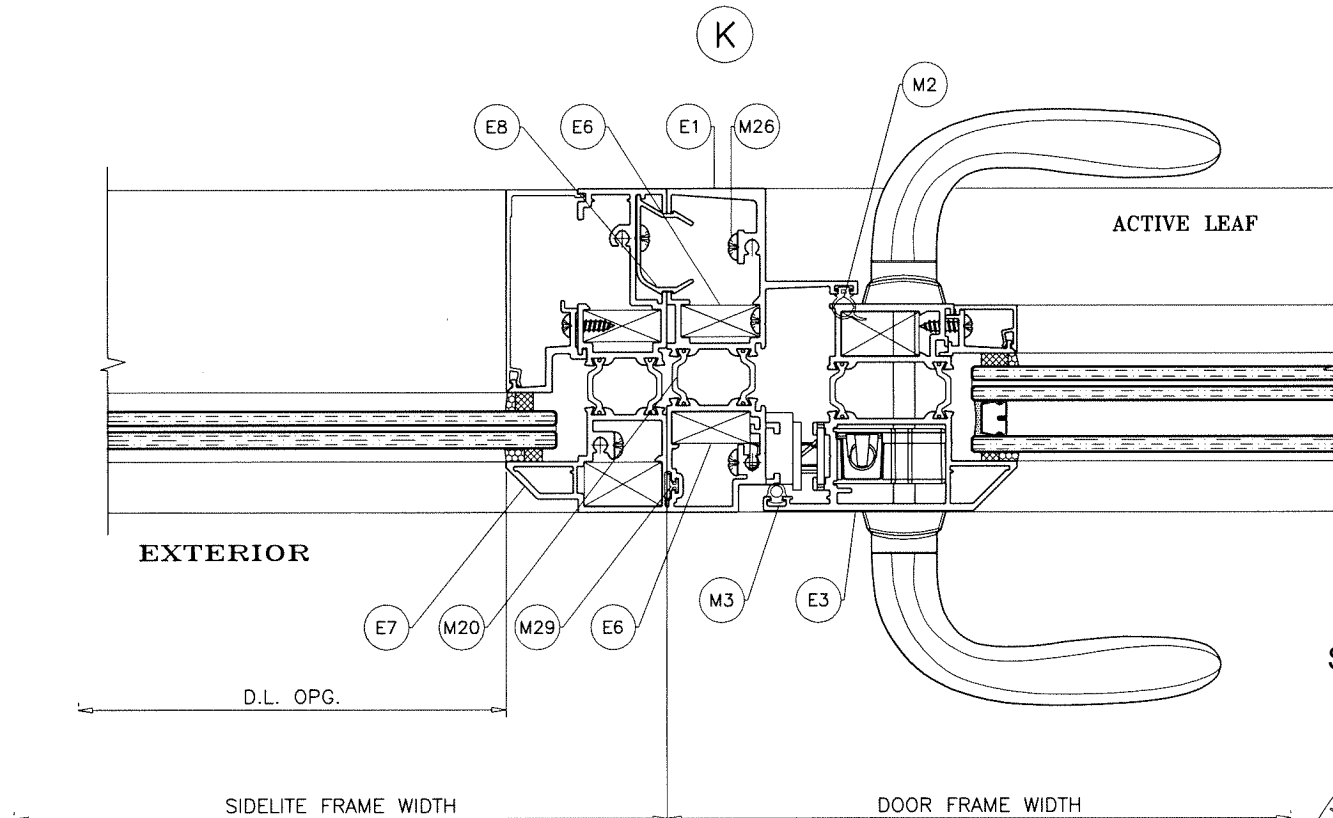
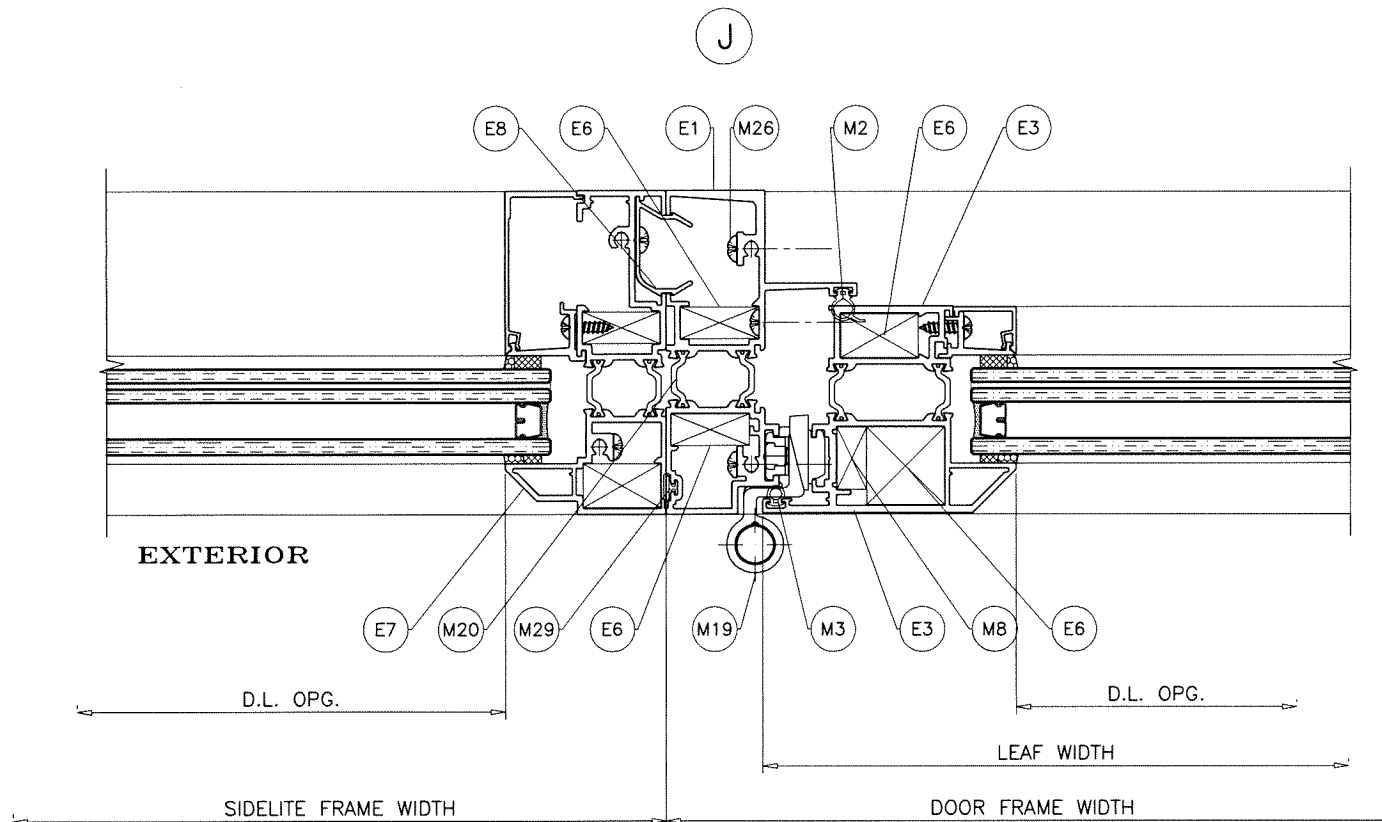
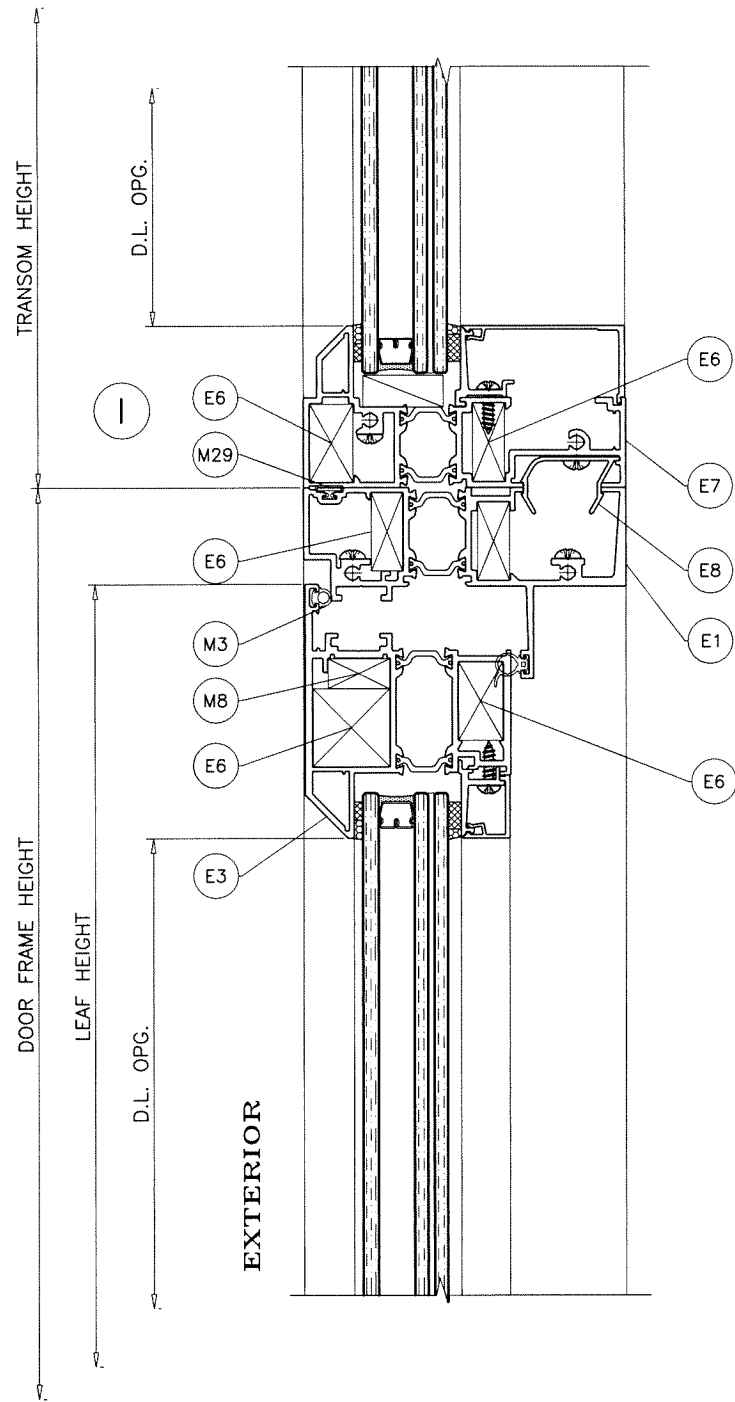
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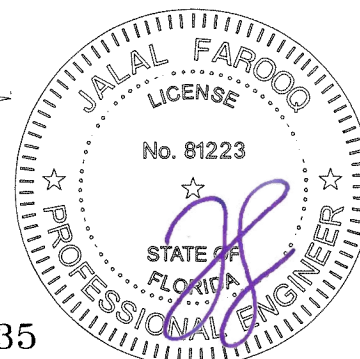
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drawing no.
W17-07
sheet 9.1 of 15



TRANSOM DETAIL
SIDELITE WITH DOOR DETAIL

FL #21835



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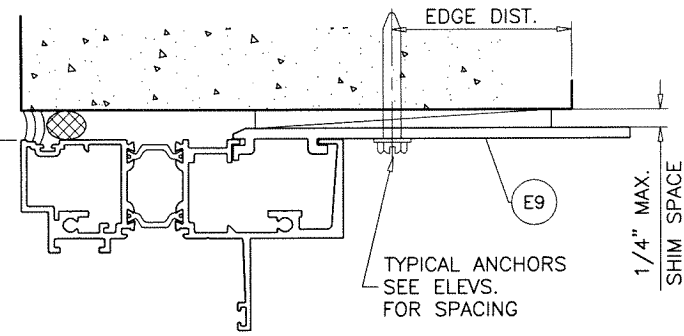
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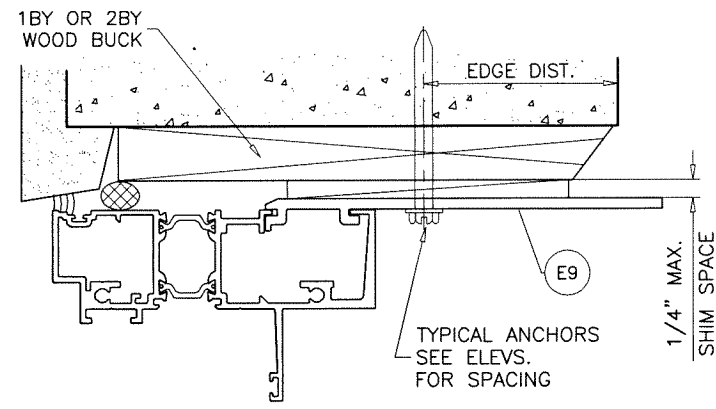
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drawing no.
W17-07
sheet 10 of 15

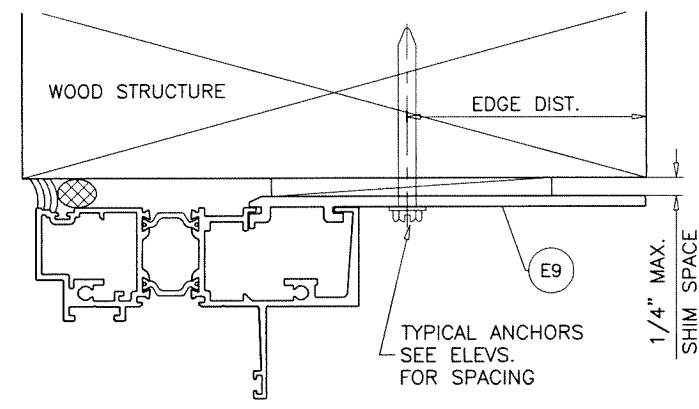
DOOR FRAME HEIGHT



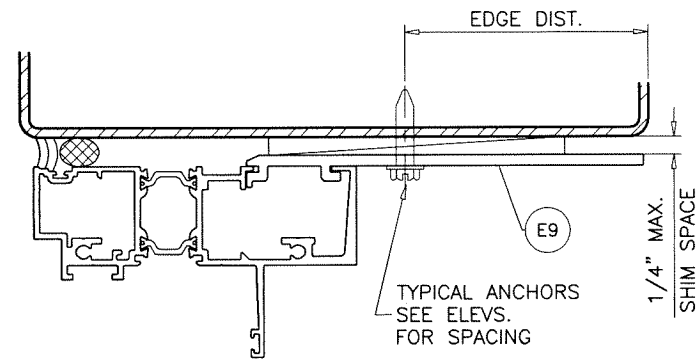
DOOR HEAD/JAMB



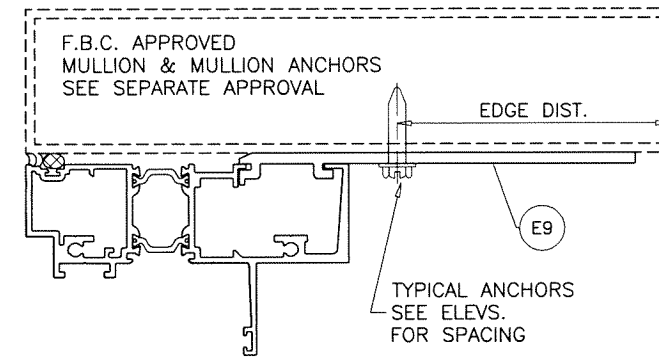
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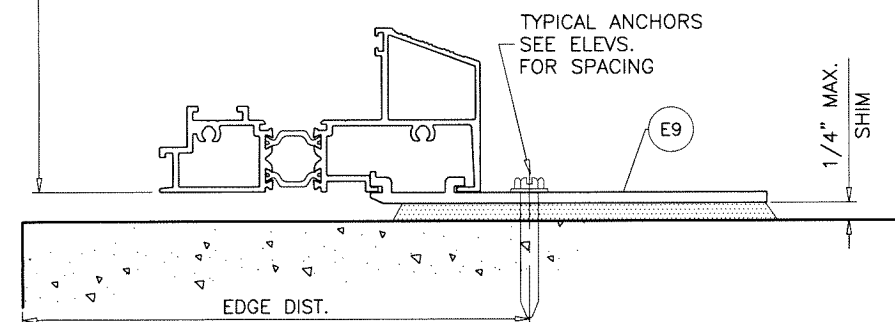
DOOR HEAD/JAMB



DOOR HEAD/JAMB



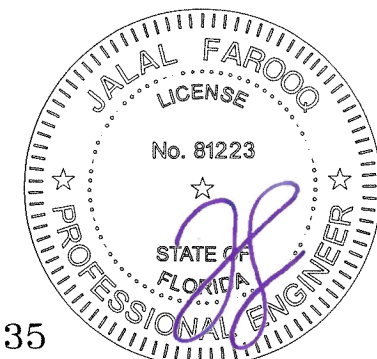
DOOR HEAD/JAMB



DOOR SILL

DOOR FRAME
INSTALLATION DETAILS WITH STRAP ANCHOR

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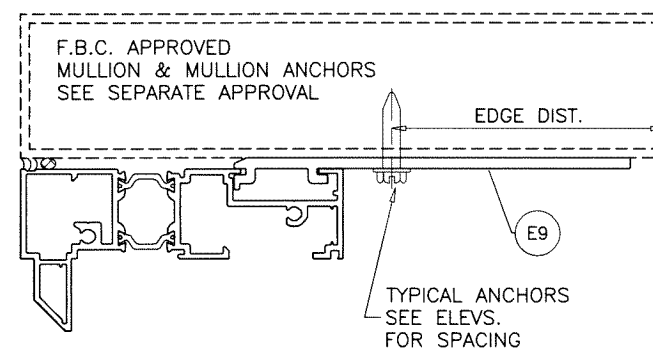
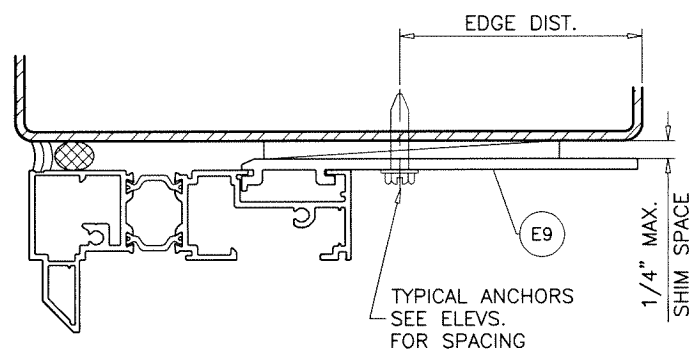
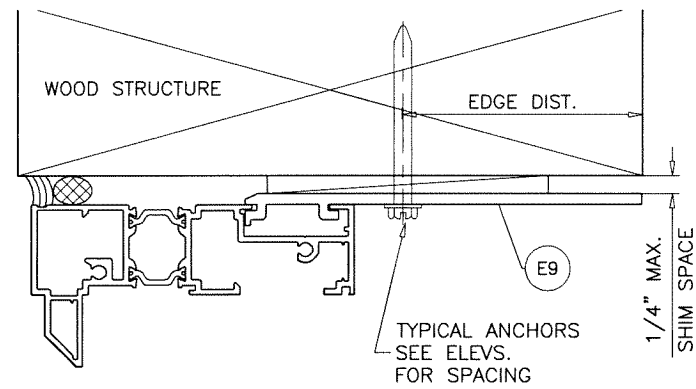
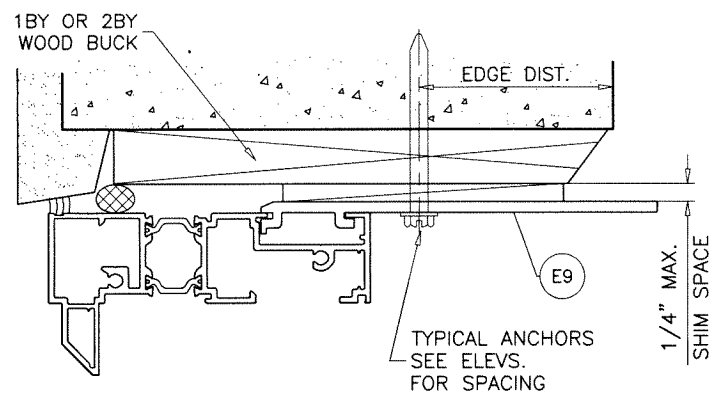
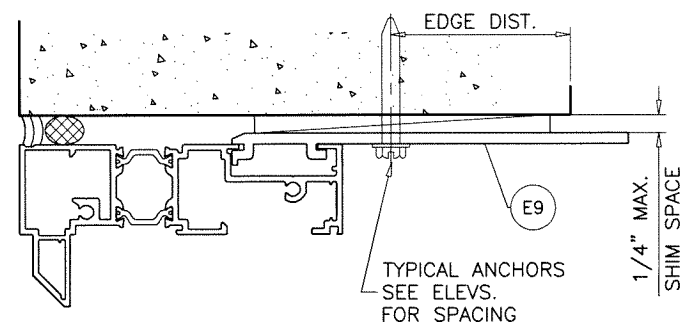
ES-46T THERMAL ALUM FRENCH DOOR (L.M.I.)

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

revisions:
no. date by description

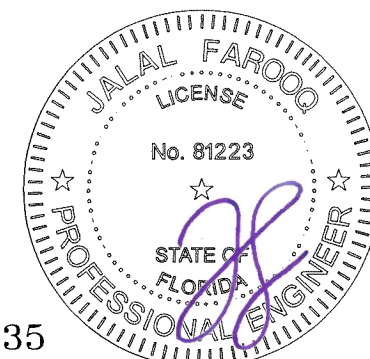
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dr. by: TARIQ
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drawing no.
W17-07
sheet 11 of 15



SIDELITE/TRANSOM FRAME INSTALLATION DETAILS WITH STRAP ANCHOR

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ES-46T THERMAL ALUM FRENCH DOOR (L.M.I.)

E.S. WINDOWS, LLC

3550 N.W. 49 STREET

MIAMI, FL. 33142

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3300 SUNSET DRIVE, SUITE 220
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LOCK SINGLE DOOR:

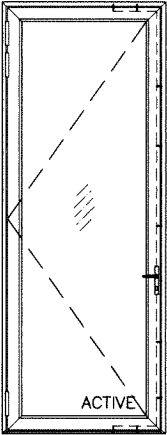
ACTIVE LEAF:

SURFACE MOUNT 9 POINT LOCK SYSTEM
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
LEVER TYPE HANDLE AT 38" FROM BOTTOM ACTIVATES SHOOT BOLTS ENGAGING AT HEAD AND SILL
(2) SHOOT BOLTS ENGAGING AT HEAD
(2) SHOOT BOLTS ENGAGING AT SILL
AND (5) BOLTS ENGAGING AT JAMB STILE FASTENED WITH
(2) #8 X 3/4" FH SMS
(1) 12-28 X 2" FH MACHINE SCREWS
(2) 8-36 X 1/2" FH MACHINE SCREWS

KEEPERS AT JAMB:

(6) SURFACE MOUNT METALLIC KEEPERS AT 5", 10", 24", 43", 68" AND 73" FROM BOTTOM FASTENED WITH
(1) 10-32 X 5/16" FH MACHINE SCREWS

(1) SURFACE MOUNT METALLIC KEEPERS AT 38" FROM BOTTOM FASTENED WITH
(3) #8 X 3/4" FH SMS



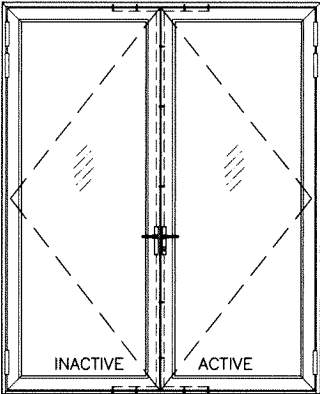
LOCK DOUBLE DOOR:

ACTIVE LEAF:

SURFACE MOUNT 11 POINT LOCK SYSTEM
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
LEVER TYPE HANDLE AT 38" FROM BOTTOM ACTIVATES (2) SHOOT BOLTS ENGAGING AT HEAD
(2) SHOOT BOLTS ENGAGING AT SILL
AND (5) BOLTS ENGAGING AT INACTIVE STILE FASTENED WITH
(2) #8 X 3-3/16" OH MACHINE SCREWS

INACTIVE LEAF:

SURFACE MOUNT 6 POINT LOCK SYSTEM
LEVER TYPE HANDLE AT 38" FROM BOTTOM ACTIVATES (2) SHOOT BOLTS ENGAGING AT HEAD
(2) SHOOT BOLTS ENGAGING AT SILL
AND (2) BOLTS ENGAGING AT ACTIVE STILE FASTENED WITH
(2) #8 X 3-3/16" OH MACHINE SCREWS



KEEPERS AT HEAD/SILL:

(4) SURFACE MOUNT METALLIC KEEPERS AT 28" AND 34" FROM DOOR FRAME ENDS FASTENED WITH
(1) 10-32 X 3/8" FH MACHINE SCREW AND NUT

KEEPERS AT ASTRAGAL STILE:

(5) SURFACE MOUNT METALLIC KEEPERS AT 9", 23", 52", 72" AND 87" FROM BOTTOM FASTENED WITH
(1) 10-32 X 3/8" FH MACHINE SCREW AND NUT

(1) SURFACE MOUNT METALLIC STRIKE PLATE AT 38" FROM BOTTOM FASTENED WITH
(3) #8 X 1" FH SMS

HINGES:

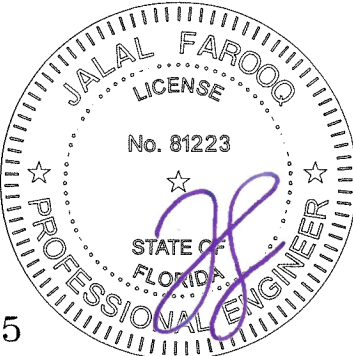
SURFACE MOUNT METALLIC PIVOT HINGES
BOTTOM HINGE AT 8" FROM BOTTOM
TOP HINGES AT 8" AND 16" FROM TOP
ADDL. HINGE REQD. AT MID HEIGHT OF SINGLE DOOR (41-3/16"W X 120"H)
FASTENED TO FRAME WITH
(2) 1/4-28 X 5/16" SET SCREWS AND
(2) 1/4-20 X 3/8" FH MACHINE SCREWS
FASTENED TO PANEL WITH
(2) 1/4-20 X 3/8" FH MACHINE SCREWS

SEALANTS:

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

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-45T-501	3	DOOR FRAME HEAD/JAMB	6063-T6	-
E2	ES-45T-502	1	FRAME SILL (STD.)	6063-T6	-
E2.1	ES-45T-004	1	ALT. FRAME SILL	6063-T6	-
E3	ES-45T-503	4	LEAF STILE	6063-T6	-
E3.1	ES-45T-051	4	ALT. LEAF STILE	6063-T6	-
E4	ES-45T-506	1	ASTRAGAL STILE	6063-T6	-
E4.1	ES-46T-501	1	ASTRAGAL STILE	6063-T6	-
E5	ES-45T-010	1	NOTCH TRIM	6063-T6	-
E6	ES-45T-011	AS REQD.	CORNER KEY	6063-T6	-
E7	ES-45T-505	AS REQD.	SIDELITE/TRANSOM FRAME HEAD/SILL/JAMB	6063-T6	-
E7A	ES-45T-515	AS REQD.	SIDELITE/TRANSOM FRAME HEAD/SILL/JAMB	6063-T6	-
E7.1	ES-45T-521	AS REQD.	ALT. SIDELITE FRAME HEAD/SILL	6063-T6	-
E8	ES-45T-016	AS REQD.	SIDELITE/TRANSOM SNAP CLIP	6063-T6	-
E9	ES-45T-019	AS REQD.	STRAP ANCHOR CLIP	6063-T6	-
E11	ES-45T-037	1	STD. THRESHOLD	6063-T6	-
E12	ES-45T-024	4/ LEAF	GLASS STOP (DOOR) (INSUL. LAM. GLASS)	6063-T6	-
E12A	ES-46T-002	4/ LEAF	GLASS STOP (DOOR) (LAM. GLASS)	6063-T6	-
E13	ES-45T-025	4/ LEAF	GLASS STOP COVER (DOOR) (INSUL. LAM. GLASS)	6063-T6	-
E13A	ES-46T-003	4/ LEAF	GLASS STOP COVER (DOOR) (LAM. GLASS)	6063-T6	-
E14	ES-45T-026	4/ LEAF	GLASS STOP (SIDELITE) (INSUL. LAM. GLASS)	6063-T6	-
E14A	ES-46T-004	4/ LEAF	GLASS STOP (SIDELITE) (LAM. GLASS)	6063-T6	-
E15	ES-45T-027	4/ LEAF	GLASS STOP COVER (SIDELITE) (INSUL. LAM. GLASS)	6063-T6	-
E15A	ES-46T-005	4/ LEAF	GLASS STOP COVER (SIDELITE) (LAM. GLASS)	6063-T6	-
M2	ES-45T-G10A S	AS REQD.	EXTERIOR LEAF GASKET	EPDM	DUROMETER 70±5 SHORE A
M3	ES-P251-G05A	AS REQD.	INTERIOR LEAF GASKET	SILICONE	DUROMETER 70±5 SHORE A
M4	-	AS REQD.	SINGLE FACE TAPE (1/8" X 1/4")	POLYURETHANE	-
M4A	V2200	AS REQD.	SINGLE FACE TAPE (3/16" X 1/4")	POLYURETHANE	NORTON
M5	-	AS REQD.	SINGLE FACE TAPE (3/16" X 3/8")	POLYURETHANE	-
M5A	V2200	AS REQD.	SINGLE FACE TAPE (1/4" X 1/4")	POLYURETHANE	NORTON
M6	ES-6025-B01A	2/ LITE	SETTING BLOCKS AT 1/4 POINTS (FIX. LITE)	EPDM	DUROMETER 85±5 SHORE A
M6B	ES-45T-G11	AS REQD.	EXTERIOR WEDGE	SILICONE	DUROMETER 70±5 SHORE A
M7	ES-21-B04A S	2/ LITE	SETTING BLOCKS AT 1/4 POINTS (DOOR)	EPDM	DUROMETER 80±5 SHORE A
M8	0333	AS REQD.	CORNER JOINT	DIE CAST ALUMINUM	-
M19	A11990003 BLC	-	KLEMMBAND G HINGES	ALUMINUM	-
M20	1673	-	20 MM OFFSET	POLYAMIDE	-
M22	P6304FK	AS REQ.	4" ADHESIVE PILE PAD (1/2" X 1/2")	PILE	-
M23	WPSA-NI	-	WEEP PAD (3/4" X 3/4" X 2" LONG)	RETICULATED FOAM	30PPI FOAM, AT WEEP HOLES
M24	WA2L	-	WEEP HOLE COVER	RIGID PVC	-
M25	#12 X 1-3/4"	-	FRAME ASSEMBLY FASTENERS	ST/ST	PH SMS
M26	#10 X 1-3/4"	-	ASTRAGAL FASTENERS	ST/ST	PH SMS
M28	#8 X 5/8"	-	GLASS STOP FASTENERS, AT 12" O.C.	ST/ST	PH SMS
M29	27-425	AS REQD.	BULB GASKET	EPDM	DUROMETER 65±5 SHORE A
M30	-	AS REQD.	SHEAR CLIP, 3" LONG AT ANCHOR LOCATIONS	6063-T6	-
M31	ES-EL300-G01	AS REQD.	LEAF GASKET AT ASTRAGAL	SILICONE	-

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(C.A.N. 3538)

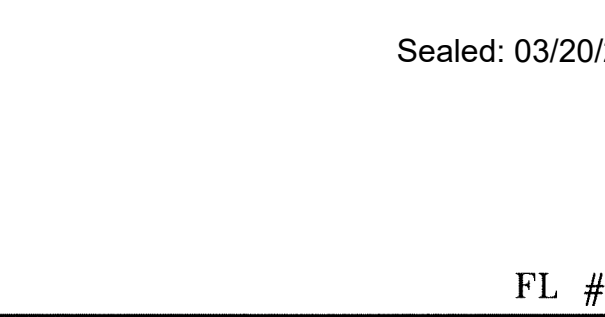
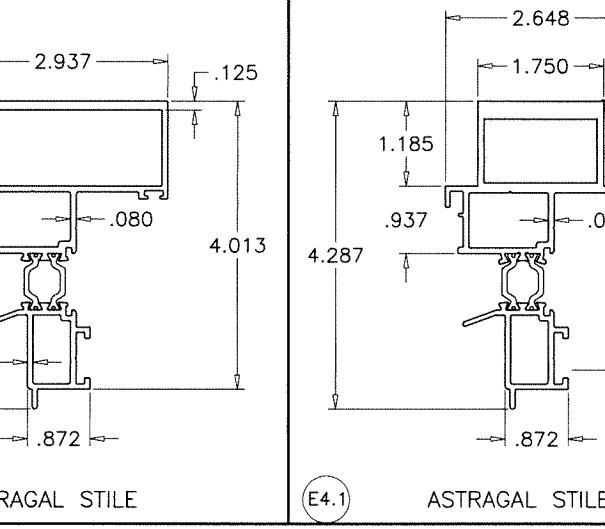
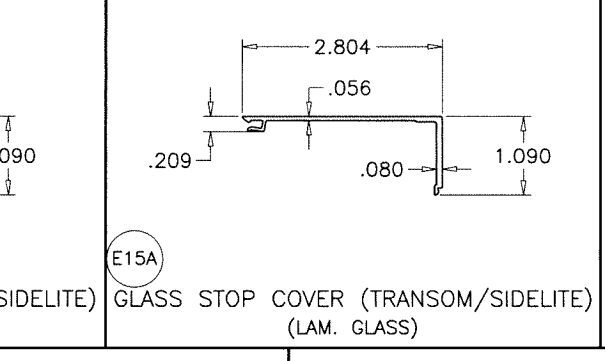
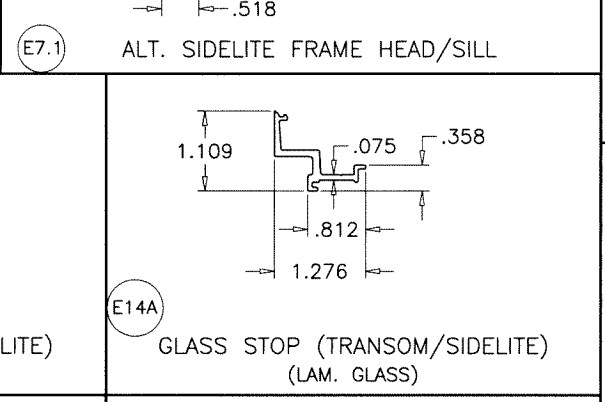
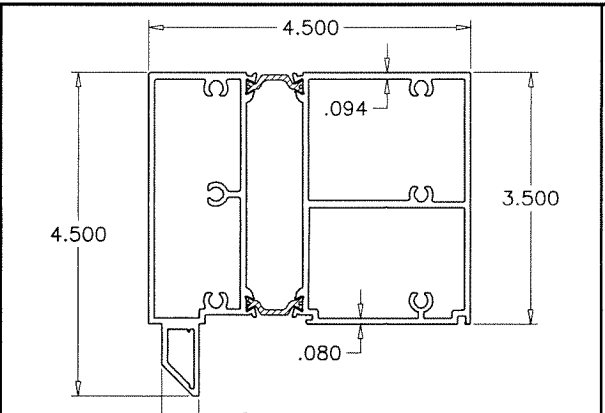
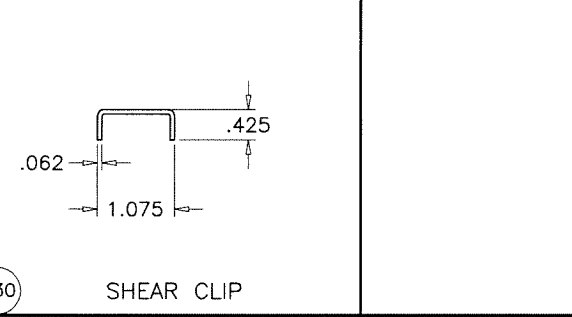
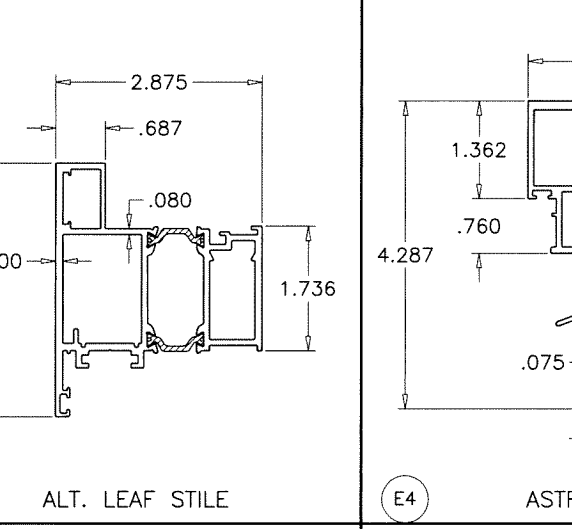
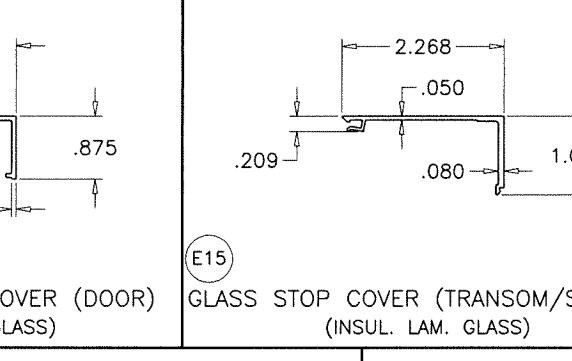
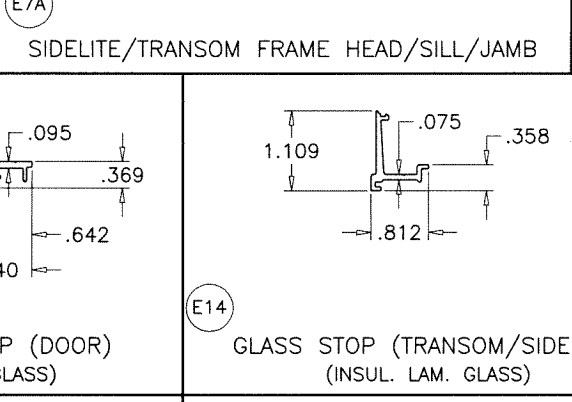
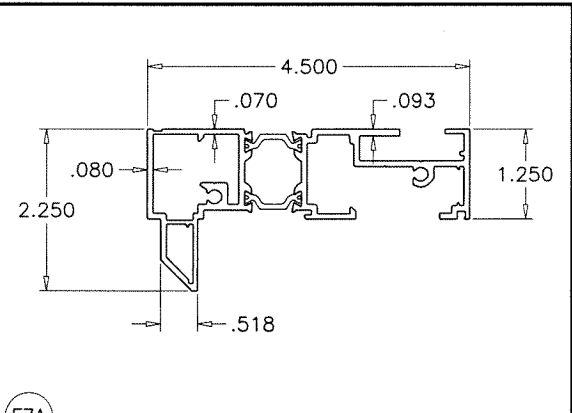
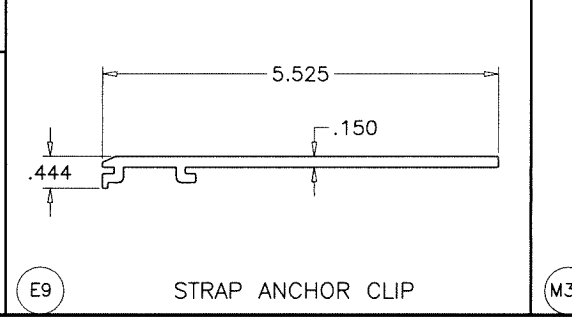
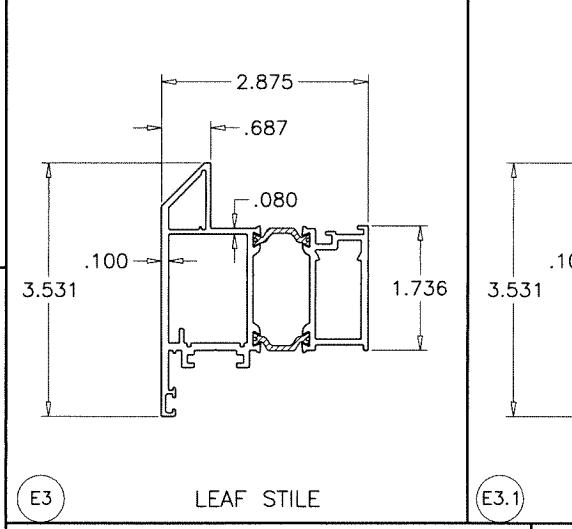
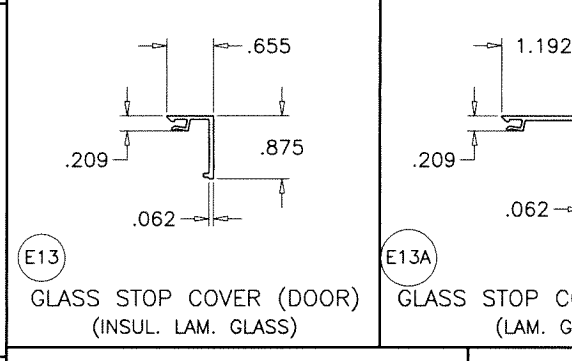
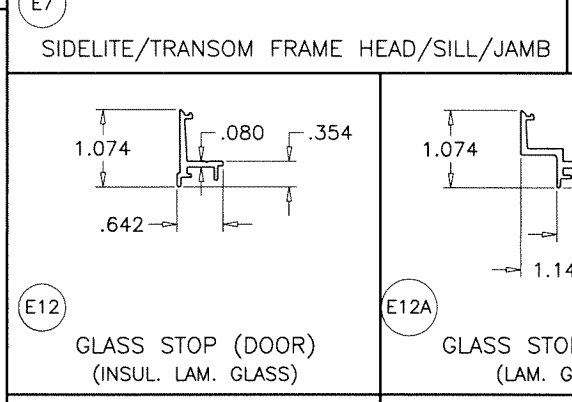
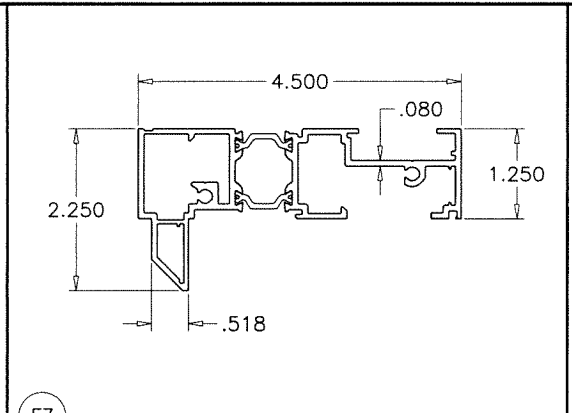
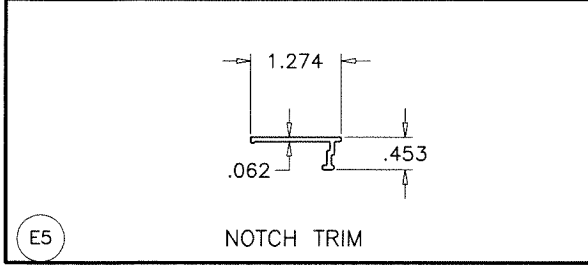
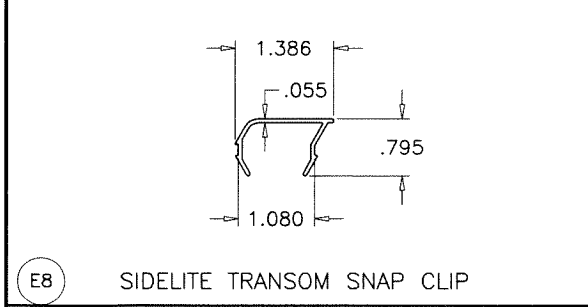
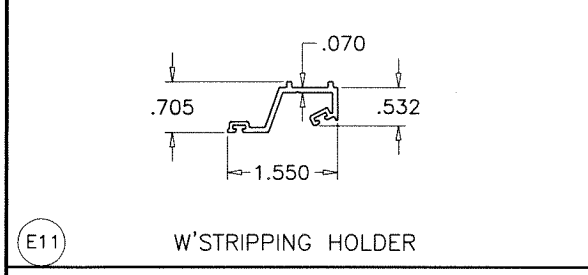
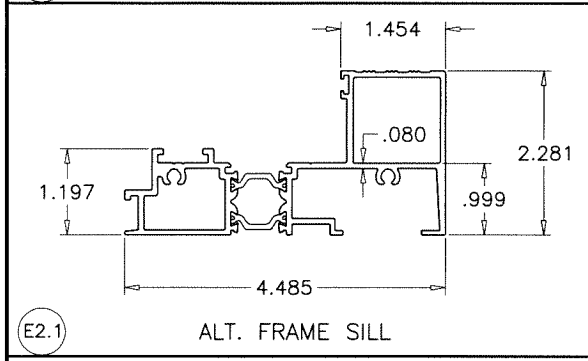
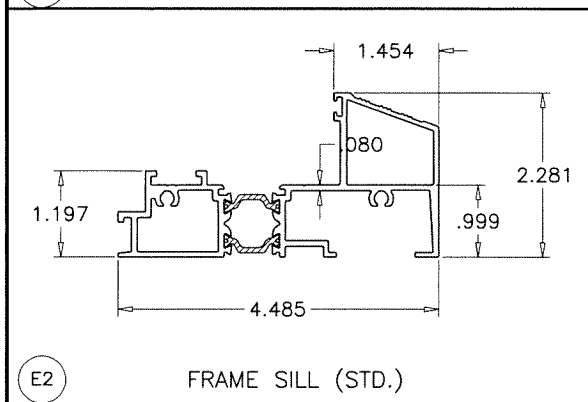
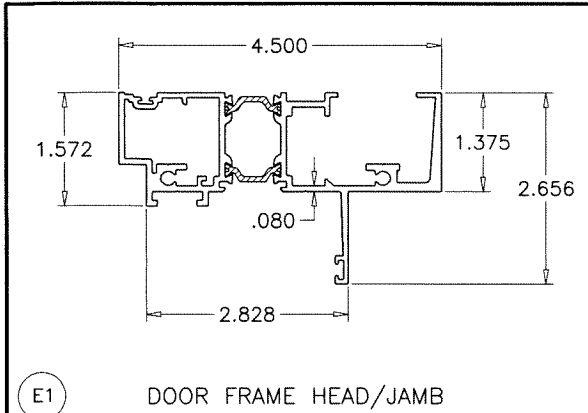
ES-46T THERMAL ALUM FRENCH DOOR (L.M.I.)

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: 01-02-17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

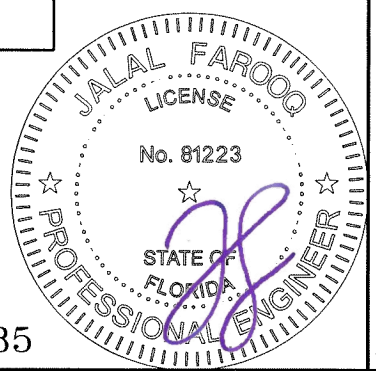
drawing no.
W17-07
sheet 13 of 15



 20MM OFFSET
TECATHERM® 66 GF INSULBARS
 SCALE 1:1
 MATERIAL = POLYAMIDE
 TENSILE STRENGTH = 13031 PSI
 RATE OF BURN = .752 IN./MIN.
 SELF IGNITION TEMP. = 793° F
 FLASH IGNITION TEMP. = 781°C
 SMOKE DENSITY = 1.63

.071
 .244
 .787

Sealed: 03/20/2026

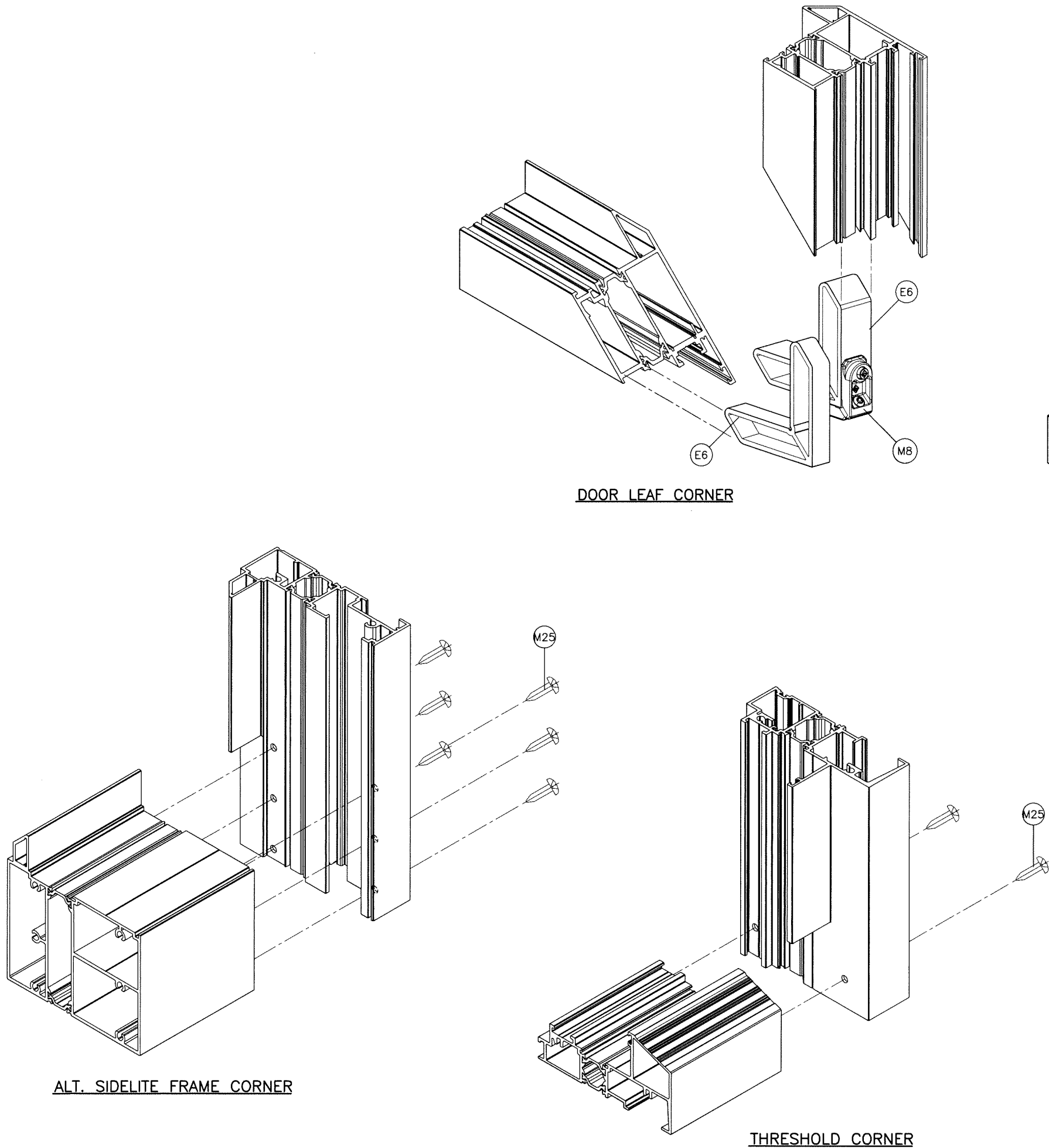


AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W17-07ES

ES-46T THERMAL ALUM FRENCH DOOR (L.M.I.)
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revisions:		no date by description	
date:	01-02-17	scale:	3/8" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	W17-07		
sheet	14 of 15		

FL #21835



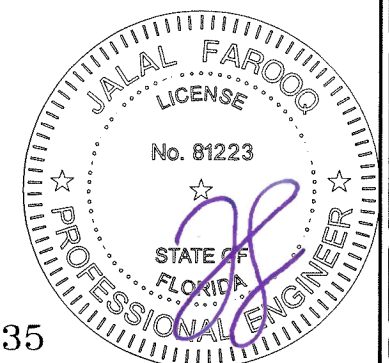
DOOR LEAF CORNER

DOOR FRAME TOP CORNER
SIDELITE FRAME TOP/BOTTOM CORNER

Sealed: 03/20/2026

ALT. SIDELITE FRAME CORNER

THRESHOLD CORNER



FL #21835

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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revisions: no date by description

date: 01-02-17
scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.

W17-07

sheet 15 of 15