



Product Approval

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OFFICE OF THE
SECRETARY

FL # FL22527-R13
Application Type Revision
Code Version 2023
Application Status Approved

Comments

Archived ☐

Product Manufacturer E.S. Windows, Inc.
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Miami, FL 33138
(305) 638-5151
ssabagh@energiasolarsa.com

Authorized Signature Jalal Farooq
veronica@afceng.com

Technical Representative Samir Sabagh
Address/Phone/Email 3550 NW 49th St.
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ssabagh@energiasolarsa.com

Quality Assurance Representative
Address/Phone/Email

Category Exterior Doors
Subcategory Swinging Exterior Door Assemblies

Compliance Method Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer
☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report Jalal Farooq
Florida License PE-81223
Quality Assurance Entity Keystone Certifications, Inc.
Quality Assurance Contract Expiration Date 07/16/2035
Validated By Abel Carrasco, PE
☒ Validation Checklist - Hardcopy Received

Certificate of Independence [FL22527 R13 COI SS - Certificate of Independence 2022.pdf](#)

Referenced Standard and Year (of Standard)	Standard	Year
	ASTM E1886	2013
	ASTM E1996	2017
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994

Equivalence of Product Standards
Certified By Florida Licensed Professional Engineer or Architect
[FL22527 R13 Equiv SS - Equiv Ltr ASTM E1886-1996.pdf](#)

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

06/17/2025

Date Validated

06/21/2025

Date Pending FBC Approval

06/24/2025

Date Approved

08/12/2025

Summary of Products

FL #	Model, Number or Name	Description
22527.1	Series ES-9000 Aluminum Outswing French Door	Large missile impact resistant aluminum outswing door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +120/-130 Other: See attached drawing W17-91 for installation instructions.		Installation Instructions FL22527_R13_II_SS- 9000 OS ED (LMI) - DWG W17-91 2023.1.pdf Verified By: Jalal Farooq PE# 81223 Created by Independent Third Party: Yes Evaluation Reports FL22527_R13_AE_SS - 9000 OS Door (LMI)-PAE 2023.pdf Created by Independent Third Party: Yes
22527.2	Series ES-9000-10 Aluminum Outswing French Door	Large missile impact resistant aluminum outswing door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +114/-114 Other: See attached drawing 18-58F for installation instructions.		Installation Instructions FL22527_R13_II_SS - 9000-10 FD (LMI) - DWG 18-58F 2023 R1.pdf Verified By: Jalal Farooq PE #81223 Created by Independent Third Party: Yes Evaluation Reports FL22527_R13_AE_SS - 9000-10 OS Door (LMI)-PAE 2023.pdf Created by Independent Third Party: Yes
22527.3	Series ES-9100 Aluminum Outswing Door	Small missile impact resistant aluminum outswing door.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +120/-150 Other: See attached drawing W17-56 for installation instructions.		Installation Instructions FL22527_R13_II_SS- 9100 OS Door (SMI) - DWG W17-56 (2023.1).pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL22527_R13_AE_SS - 9100 OS Door (SMI)-PAE 2023.pdf Created by Independent Third Party: Yes

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[Contact Us](#) :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:



ALUMINUM OUTSWING ENTRANCE DOOR

SEE SHEETS 2 & 2.1 FOR DESIGN LOAD CAPACITY OF SINGLE AND DOUBLE DOORS WITHOUT TRANSOMS.

SEE SHEETS 3 & 4 FOR DESIGN LOAD CAPACITY OF SINGLE AND DOUBLE DOORS WITH TRANSOMS.

LOWER VALUES FROM DOOR CAPACITY OR TRANSOM CAPACITY CHART WILL APPLY

DOORS CAN ALSO BE USED WITH E.S. WINDOWS SERIES 9500 OR SERIES 8000 WINDOW WALL SYSTEMS UNDER SEPARATE APPROVAL.

SEE SEPARATE APPROVALS FOR E.S. WINDOWS SERIES 9500 AND SERIES 8000 WINDOW WALL DOOR MULTION CAPACITIES

LOWER VALUES FROM DOOR CAPACITY CHARTS OR WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.

DOORS WITH HIGH THRESHOLD (ES-9026) APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. STANDARD AND MEDIUM THRESHOLDS NOT APPROVED FOR WATER INFILTRATION RESISTANCE.

SEE SHEET 6 FOR DETAILS.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

BY 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 2020/2023 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.

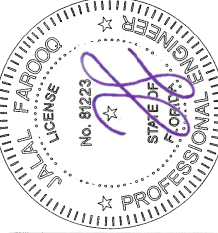
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.

ABELING TO COMPLY WITH SECTION 1709.9.2.

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

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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 PERSONS.

C- ALL BIDDERS AND PROPOSORS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHO 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.'S ENGINEER OF RECORD, ACTING AS A DELEGATED PROFESSIONAL SEAL FOR THE P.E. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR THE PROJECT.

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

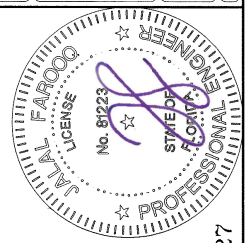
THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED

no	date	by	description
A	10.05.20		UPDATED TO 2020 FBC
B	03.16.22		THRESHOLD OPTION ADDED
C	10.03.22		LEVEL E IMPACT DOOR ADDED
	08.22.23		SILICONE OPTION ADDED
E	06.17.25		PANIC DEVICE REV. TO FALCON

SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.).
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

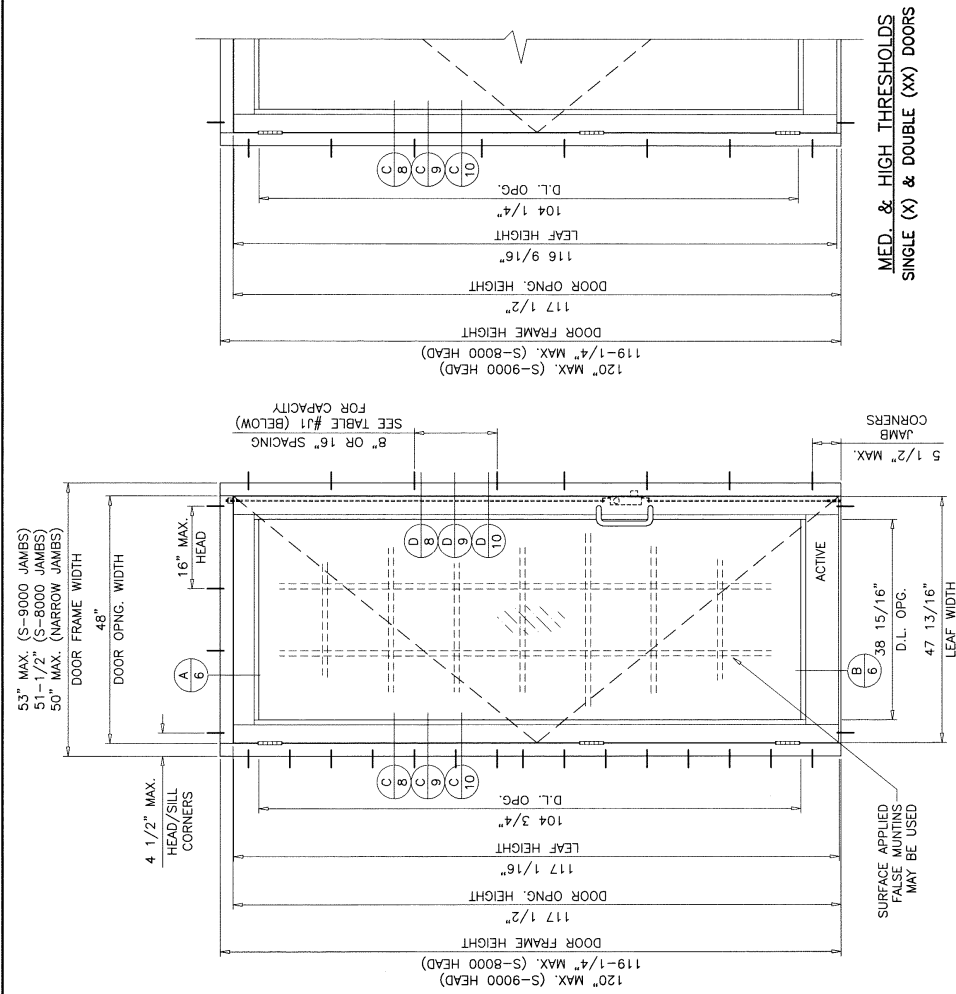
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
FAX. (305) 262-6978
COMP-ANL\18

ORATION
DEVELOPMENT
20
(C.A.N. 3538)
(305) 262-6978



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TYPICAL ELEVATION
SINGLE (X) STD. THRESHOLD

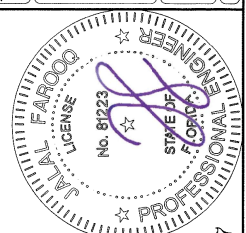
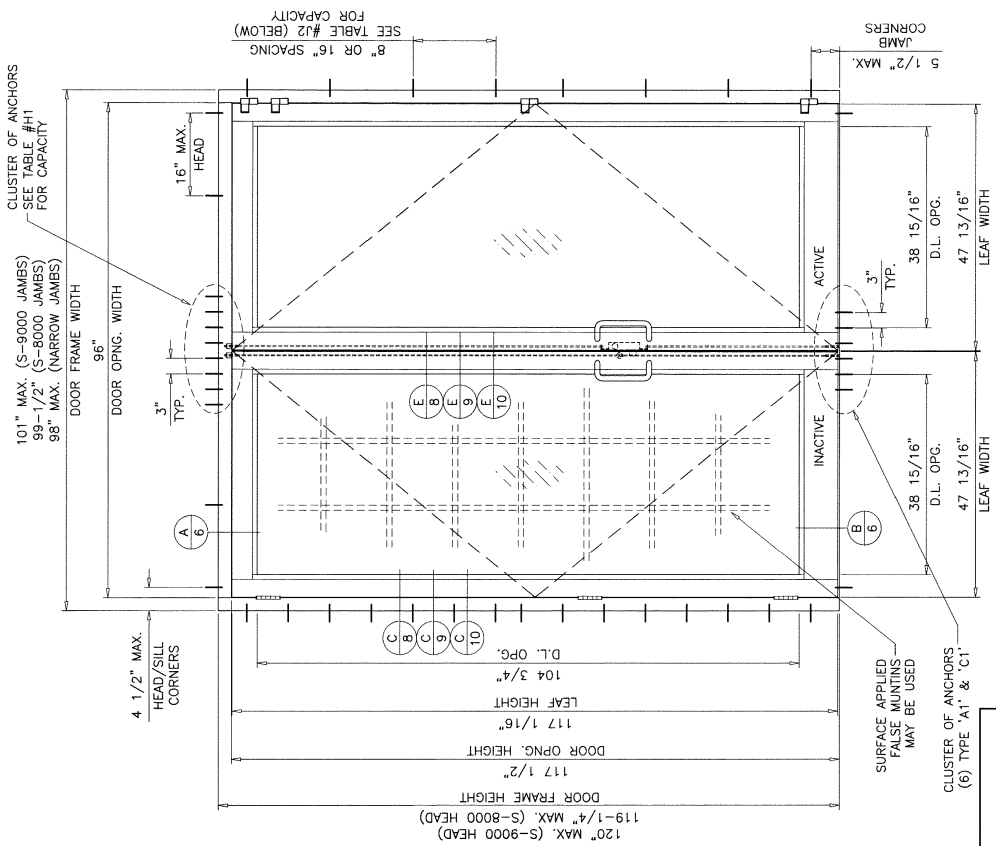
DOORS LOAD CAPACITY - PSF		
SINGLE DOORS (X)		
SINGLE DOOR (X) DIMS.	GLASS TYPES 'A' & 'Ai'	
DOOR OPNG. DOOR OPNG. HEIGHT	EXT.(+) INT.(-)	
42"	108"	90.0 90.0

DOORS LOAD CAPACITY - PSF		
SINGLE DOORS (X)		
SINGLE DOOR (X) DIMS.	GLASS TYPES 'B' & 'Bi'	
DOOR OPNG. DOOR OPNG. HEIGHT	EXT.(+) INT.(-)	
48"	117-1/2"	90.0 90.0

DOORS LOAD CAPACITY - PSF		
SINGLE DOORS (X)		
SINGLE DOOR (X) DIMS.	GLASS TYPE 'BB'	
DOOR OPNG. DOOR OPNG. HEIGHT	EXT.(+) INT.(-)	
38"	113-1/2"	114.0 114.0
41"	105-1/2"	

TABLE #11	SINGLE DOOR JAMB ANCHORS LOAD CAPACITY - PSF					
	1/4" SHIM SPACE	3/8" SHIM SPACE	1/2" SHIM SPACE	1/2" SHIM SPACE	1/2" SHIM SPACE	1/2" SHIM SPACE
SINGLE DOOR DIMS.	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A' & 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A' & 'C'
	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
DOOR OPNG. DOOR OPNG. HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
42"	108"	90.0 90.0	90.0 90.0	90.0 90.0	90.0 90.0	90.0 90.0
48"	117-1/2"	88.0 90.0	88.0 90.0	88.0 90.0	88.0 90.0	88.0 90.0
38"	113-1/2"	109.0 114.0	109.0 114.0	109.0 114.0	109.0 114.0	109.0 114.0
41"	105-1/2"	101.9 114.0	101.9 114.0	101.9 114.0	101.9 114.0	101.9 114.0

SEE SHEET 7 FOR ANCHOR DESCRIPTION



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DOORS LOAD CAPACITY - PSF DOUBLE DOORS (XX)		
DOUBLE DOOR (XX) DIMS.		GLASS TYPES 'A' & 'Ai'
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT.(+)
84"	108"	90.0
		INT.(-)
		90.0

DOORS LOAD CAPACITY - PSF			
DOUBLE DOORS (XX)			
DOUBLE DOOR (XX) DIMS.		GLASS TYPES 'B' & 'Bi'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT. (+)	INT. (-)
96"	117-1/2"	90.0	90.0

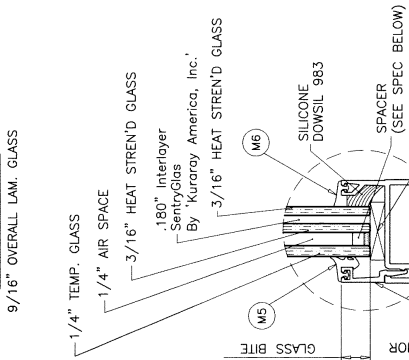
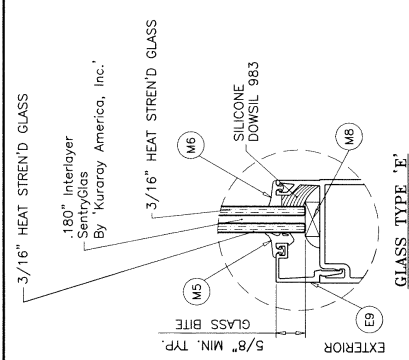
DOORS LOAD CAPACITY – PSF DOUBLE DOORS (XX)			
DOUBLE DOOR (xx) DIMS.		GLASS TYPE 'BB'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT (+)	INT. (-)
75-7/8"	113-1/2"	114.0	114.0
81-7/8"	105-1/2"		

TABLE #12	DOUBLE DOOR DIMS.	DOUBLE DOOR JAMB ANCHORS LOAD CAPACITY – PSF											
		1/4" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE			
		SPACING AT 16" O.C.		AT 8" O.C.		SPACING AT 16" O.C.		AT 8" O.C.		SPACING AT 16" O.C.		AT 8" O.C.	
		ANCHOR 'A', 'C' & 'D'		ANCHOR 'A', 'C', 'D'		ANCHOR 'A'		ANCHOR 'A' & 'C'		ANCHOR 'A'		ANCHOR 'A' & 'C'	
DOOR OPNG. WIDTH	DOOR OPNG. HEIGHT	EXT (+)	INT. (-)	EXT (+)	INT. (-)	EXT (+)	INT. (-)	EXT (+)	INT. (-)	EXT (+)	INT. (-)	EXT (+)	INT. (-)
84"	108"	90.0	90.0	74.2	90.0	90.0	90.0	57.7	83.0	90.0	90.0		
96"	117–1/2"	90.0	90.0	65.4	90.0	90.0	90.0	50.8	73.0	90.0	90.0		
75–7/8"	113–1/2"	114.0	114.0	81.6	114.0	114.0	114.0	63.5	91.7	114.0	114.0		
81–7/8"	105–1/2"	107.7	114.0	76.0	108.2	114.0	114.0	59.1	85.4	114.0	114.0		

EE SHEET 7 FOR ANCHOR DESCRIPTION

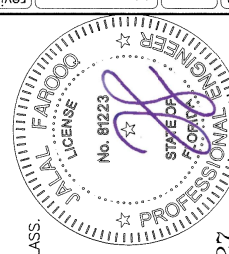
TABLE #H1		DOUBLE DOOR HEAD ANCHORS LOAD CAPACITY – PSF											
		1/4" SHIM SPACE				3/8" SHIM SPACE				1/2" SHIM SPACE			
		CLUSTER OF 6		CLUSTER OF 8		CLUSTER OF 6		CLUSTER OF 8		CLUSTER OF 6		CLUSTER OF 8	
		ANCHOR 'A', 'C' & 'D'		ANCHOR 'A'		ANCHOR 'A'		ANCHOR 'A'		ANCHOR 'A'		ANCHOR 'A'	
		EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
DOOR DIMS.													
DOOR OPNG. WIDTH													
DOOR OPNG. HEIGHT													
84"	108"	90.0	75.2	90.0	75.2	90.0	90.0	90.0	58.5	90.0	75.2	90.0	90.0
96"		90.0	66.2	90.0	66.3	90.0	85.2	90.0	51.5	80.0	66.2	90.0	90.0
84"	117–1/2"	90.0	69.2	90.0	69.2	90.0	89.0	90.0	53.8	78.0	69.2	90.0	90.0
96"		90.0	61.0	90.0	61.0	90.0	78.4	90.0	47.4	72.0	61.0	90.0	90.0
75–7/8"	113–1/2"	111.7	114.0	114.0	78.8	112.2	101.3	114.0	61.3	88.5	78.8	113.8	113.8
81–7/8"	105–1/2"	111.7	114.0	114.0	78.8	112.2	101.3	114.0	61.3	88.5	78.8	113.8	113.8

SEE SHEET 7 FOR ANCHOR DESCRIPTION

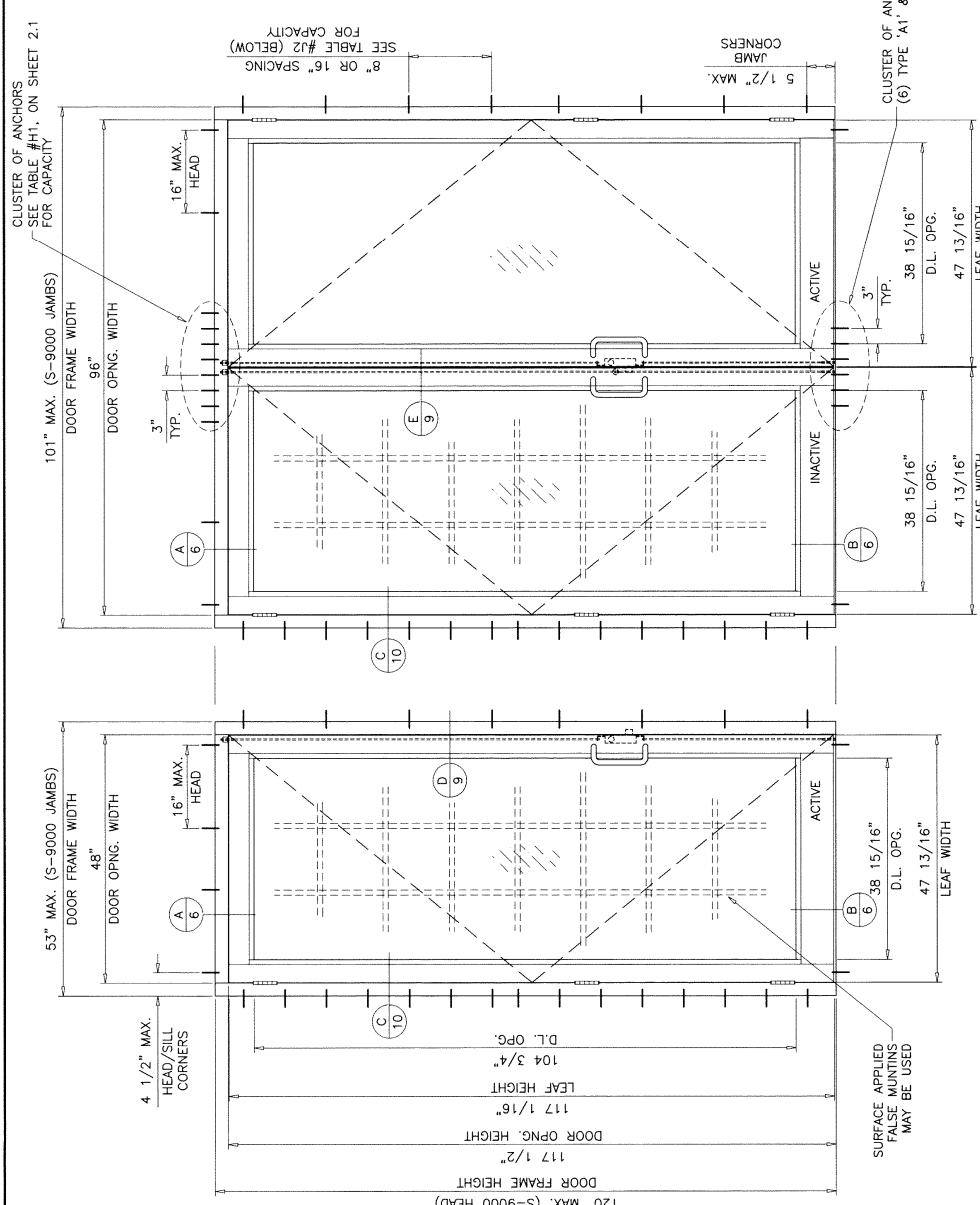


GLAZING OPTIONS (LEVEL 'E' IMPACT)
DOOR LEAF

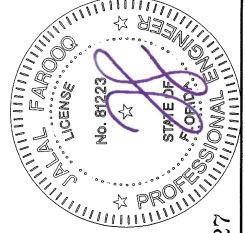
1/4" AIR SPACE CONSISTING OF:
SPACER: 'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT: SILICONE DOWSIL 791 GE 2000



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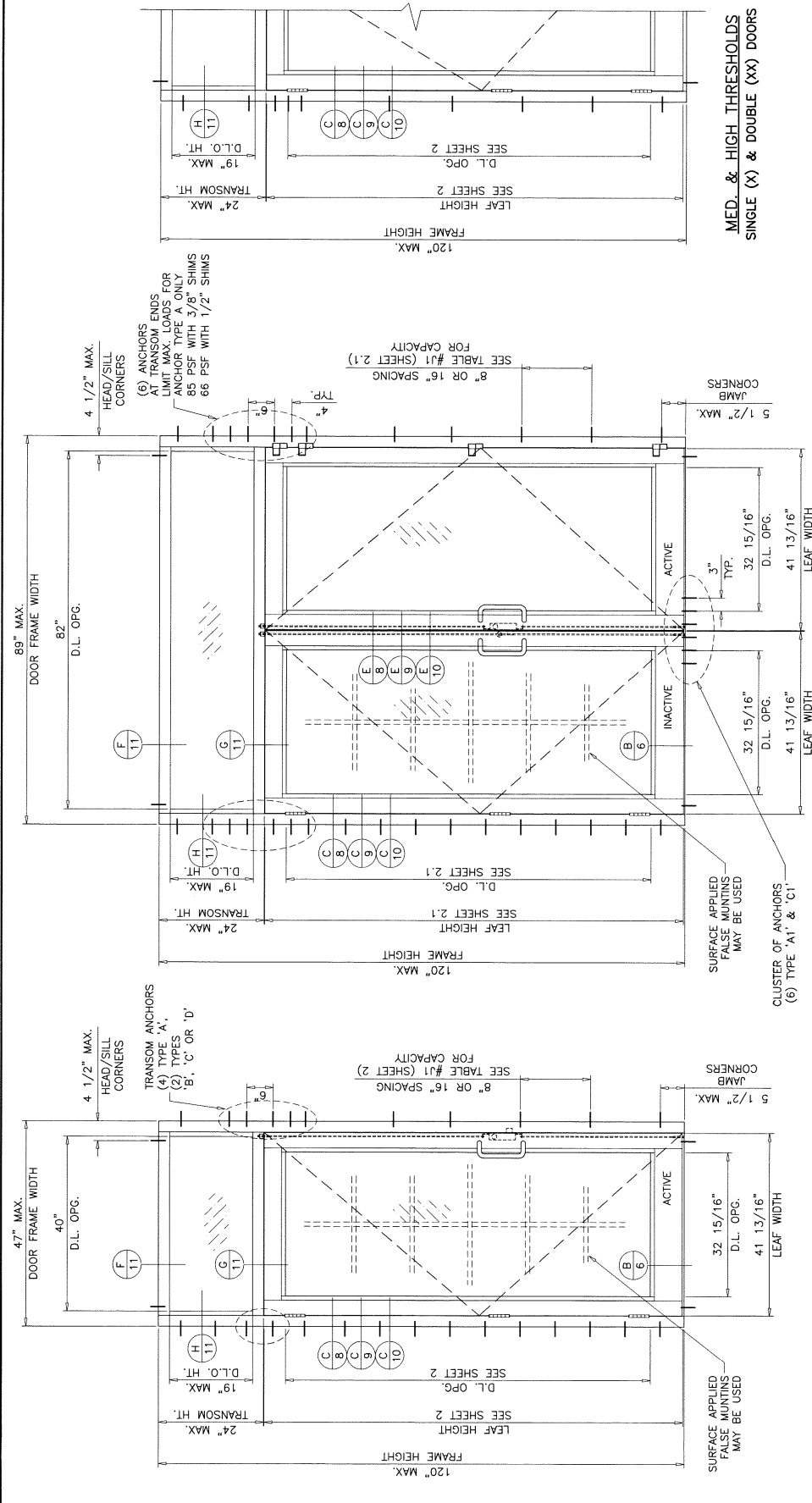


GLASS TYPES 'E' & 'Ei'
MAXIMUM DESIGN LOAD RATING = + 90.0 PSF
- 90.0 PSF
(ONLY FOR DOOR SIZES SHOWN ON THIS SHEET OR SMALLER)
THESE FRAMES CAN BE USED AT ALL SUBSTRATES SHOWN ON SHEETS 6, 7 AND 9.
DOOR LOCKS OPTION #1 SHOWN ON SHEET 15.
DOOR HINGES OPTION #1 SHOWN ON SHEET 16.



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DOUBLE DOORS WITH TRANSOM (O/XX) CAPACITY - PSF
GLASS TYPES 'A', 'A1' & 'B', 'B1' (DOOR)
GLASS TYPES 'A', 'B' & 'C1' (TRANSOM)

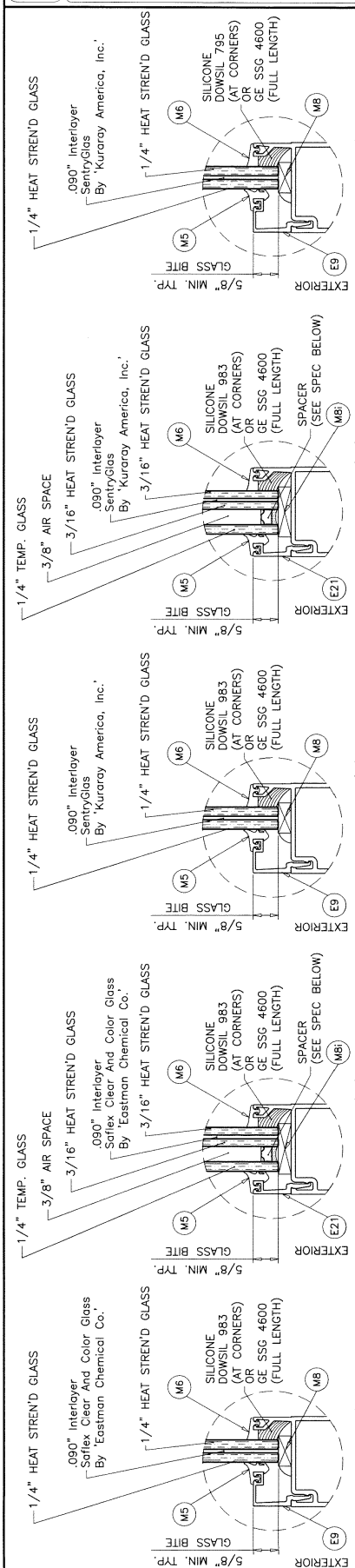
FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	EXT. (+)	INT. (-)
89" (XX)	108"	12"	90.0	90.0

SINGLE DOORS WITH TRANSOM (O/X) CAPACITY - PSF
GLASS TYPES 'A', 'A1' & 'B', 'B1' (DOOR)
GLASS TYPES 'A', 'B' & 'C1' (TRANSOM)

FRAME WIDTH	DOOR HEIGHT	TRANSOM HEIGHT	EXT. (+)	INT. (-)
47" (X)	108"	12"	90.0	90.0

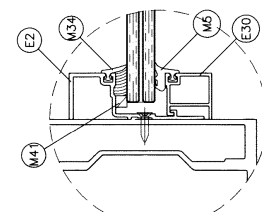
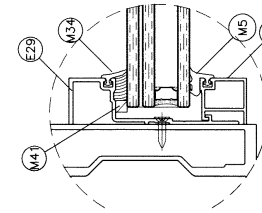
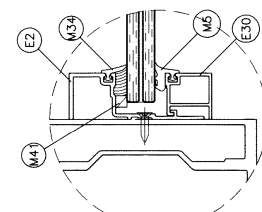
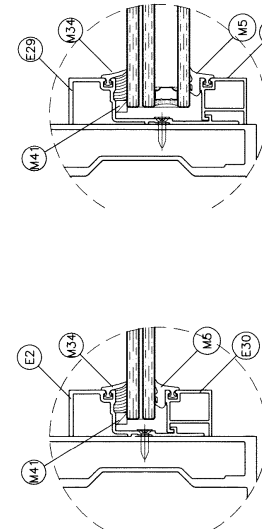
SEE SHEETS 2 AND 2.1 FOR DOOR GLASS OPTIONS

SEE SHEETS 2 AND 2.1
FOR DOOR GLASS OPTIONS

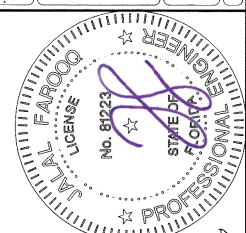
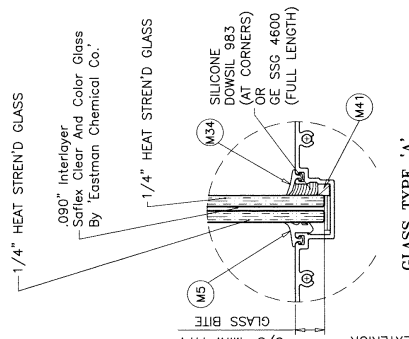
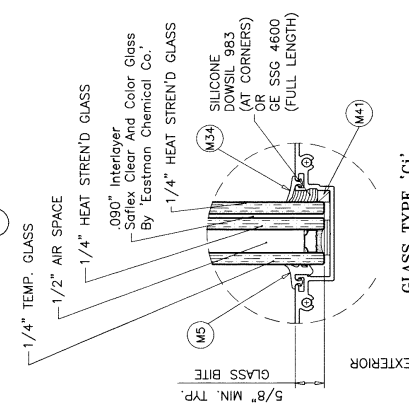
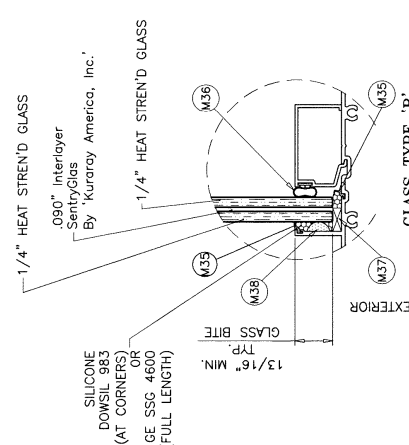


GLAZING OPTIONS (LEVEL 'D' IMPACT)

DOOR LEAF



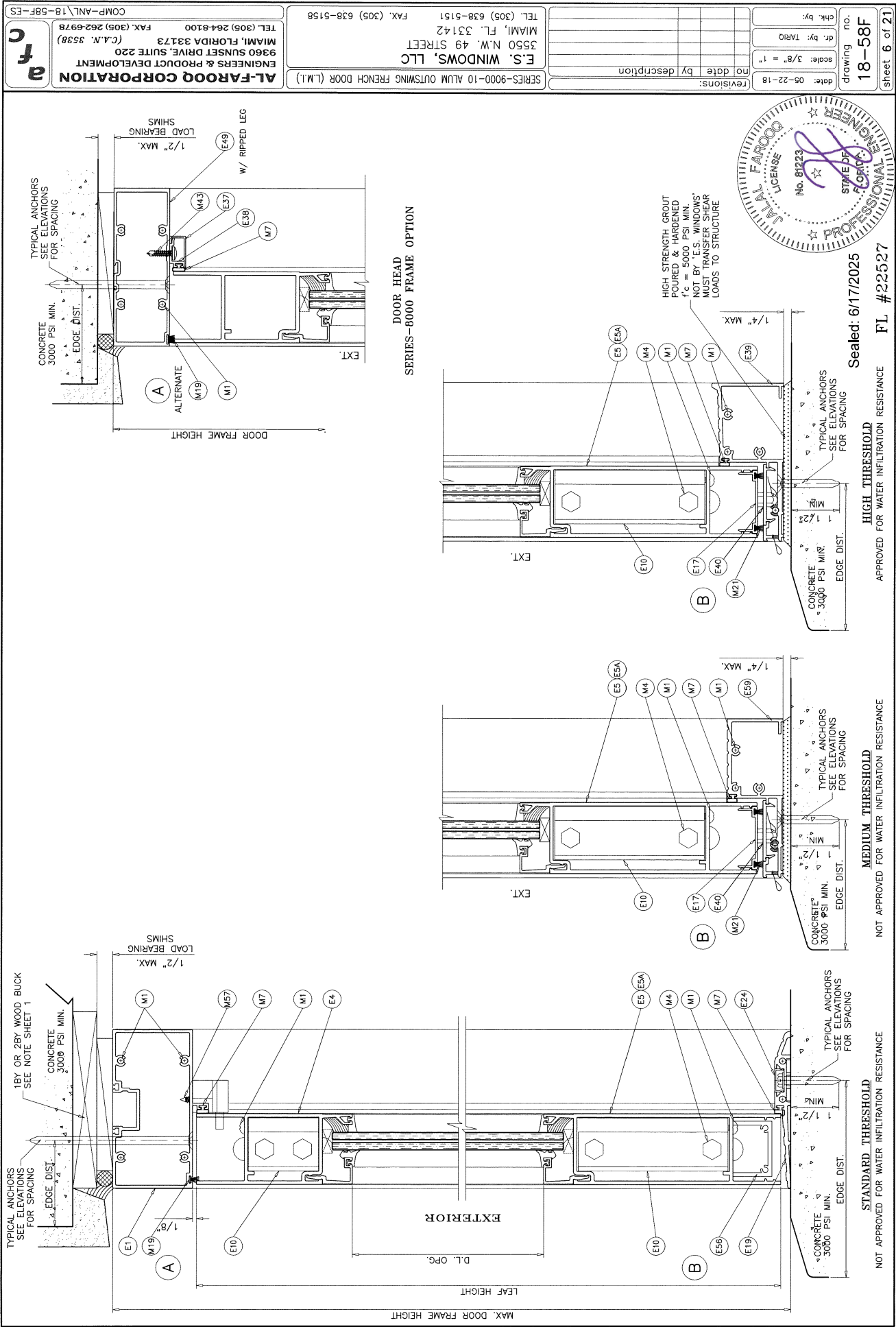
3/8" & 1/2" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000



Sealed: 6/17/2025

GLAZING DETAIL (LEVEL 'D' IMPACT)
TRANSOM (ES-8000)

GLAZING OPTIONS (LEVEL 'D' IMPACT)
TRANSOM (ES-9500)



1X OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY 'E.S. WDW.'
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (THRU 2BY BUCKS) (JAMBS)
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (THRU 1BY BUCKS) (JAMBS)
DIRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

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

TYPE 'C' - 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (THRU 2BY BUCKS) (JAMBS)
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (THRU 1BY BUCKS) (JAMBS)
DIRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 3-1/8" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.

TYPE 'D' - 1/4" TKS 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. (FY = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1/2" MIN.

TYPE 'A1' - 1/4" X 1-3/4" ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE (FOR STD. AND HIGH THRESHOLD)
WITH 1-1/2" MIN. EMBED INTO CONCRETE

ANCHOR EDGE DISTANCES

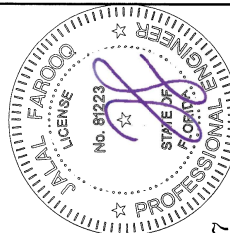
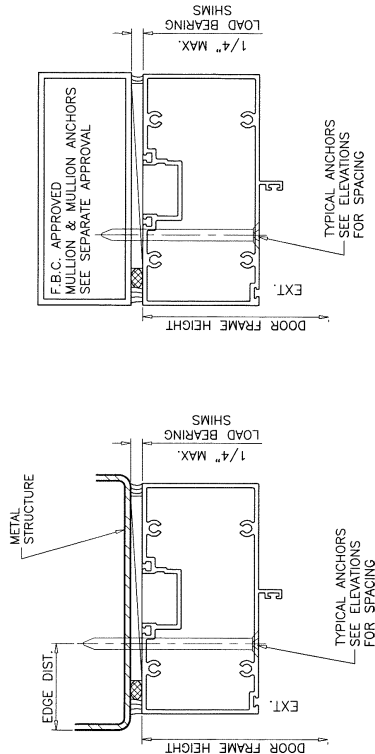
INTO CONCRETE = 2-1/2" MIN.

TYPE 'C1' - 5/16" X 2" ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE (FOR SADDLE THRESHOLD)
WITH 1-1/2" MIN. EMBED INTO CONCRETE

ANCHOR EDGE DISTANCES

INTO CONCRETE = 3-1/8" 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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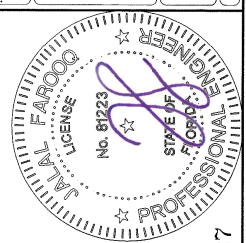
FL #22527

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

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

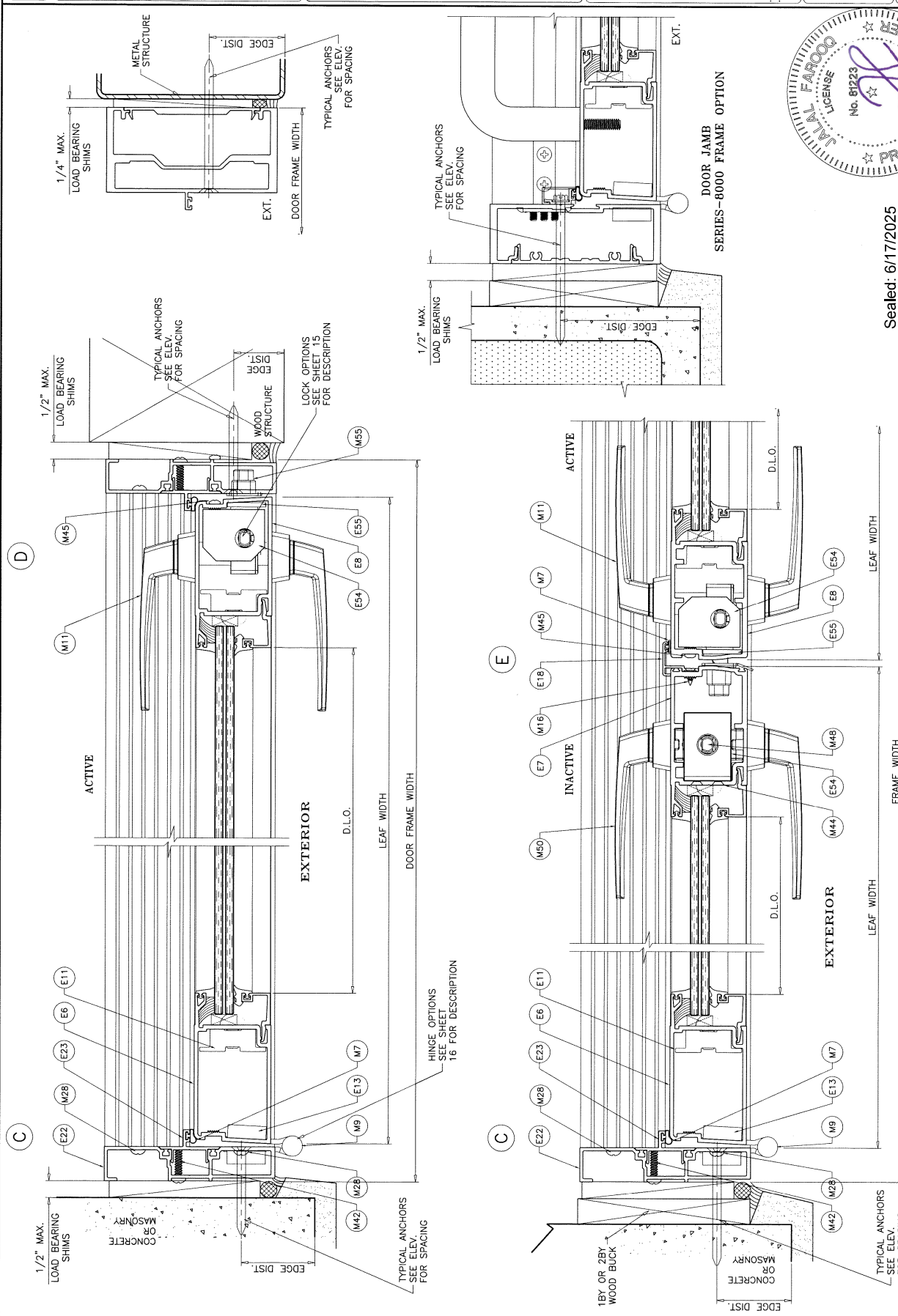
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date: 05-22-18
drawing no: 18-58F
sheet 8 of 21



Sealed: 6/17/2025

FL #22527

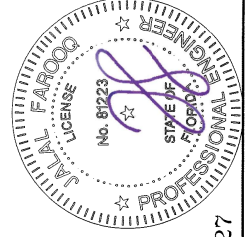


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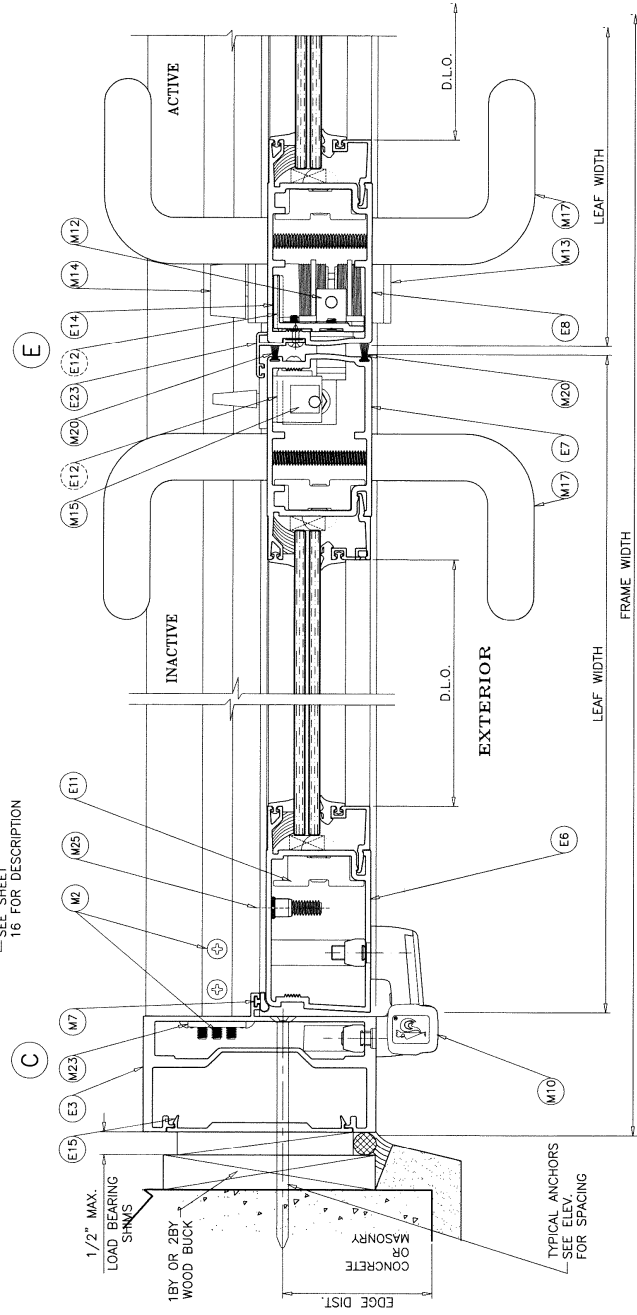
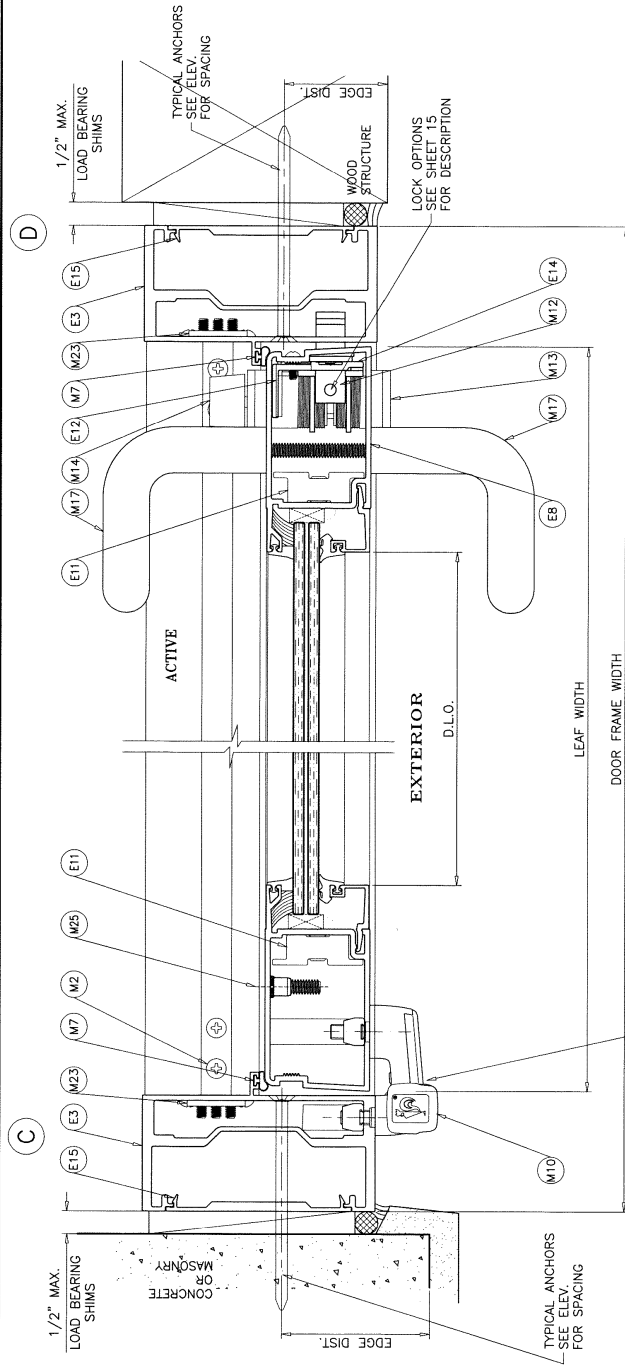
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dr. by: TARIQ
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date: 05-22-18
drawing no: **18-58F**
sheet 9 of 21



Sealed: 6/17/2025

FL #23527



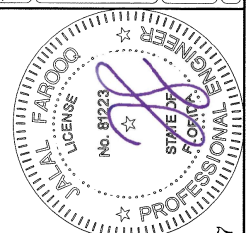
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3538)
TEL. (305) 264-8100
FAX. (305) 262-6978

SERIES-9000-10 ALUM OUTSWING 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

no	date	by	description

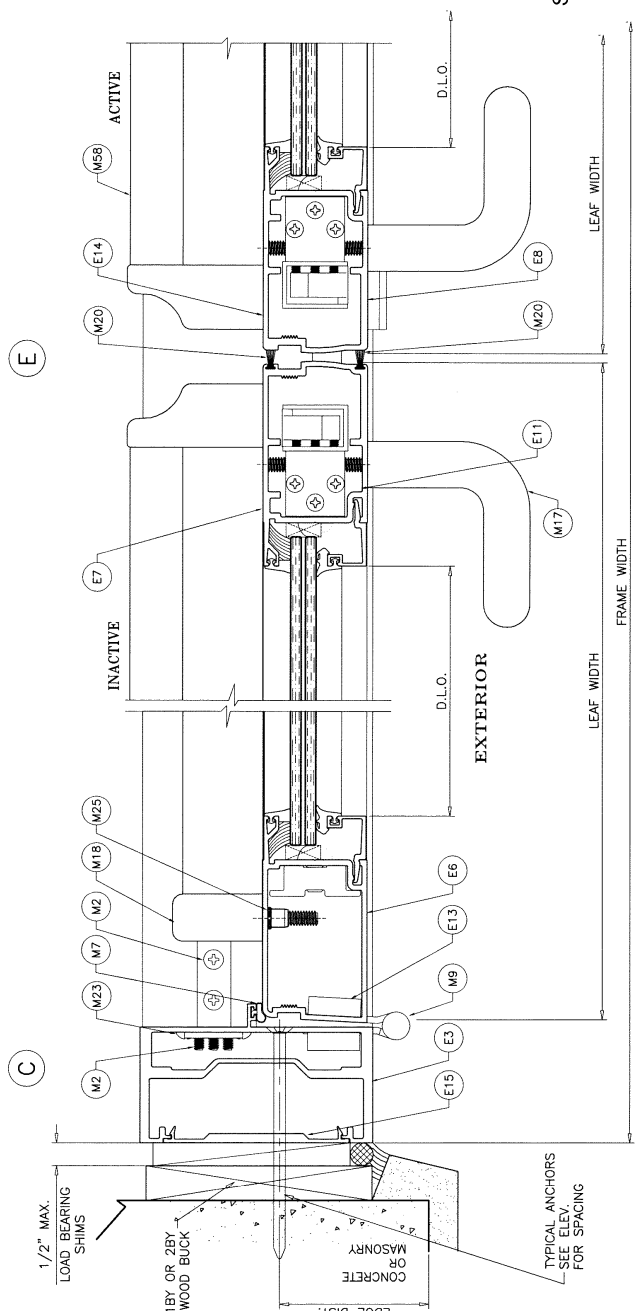
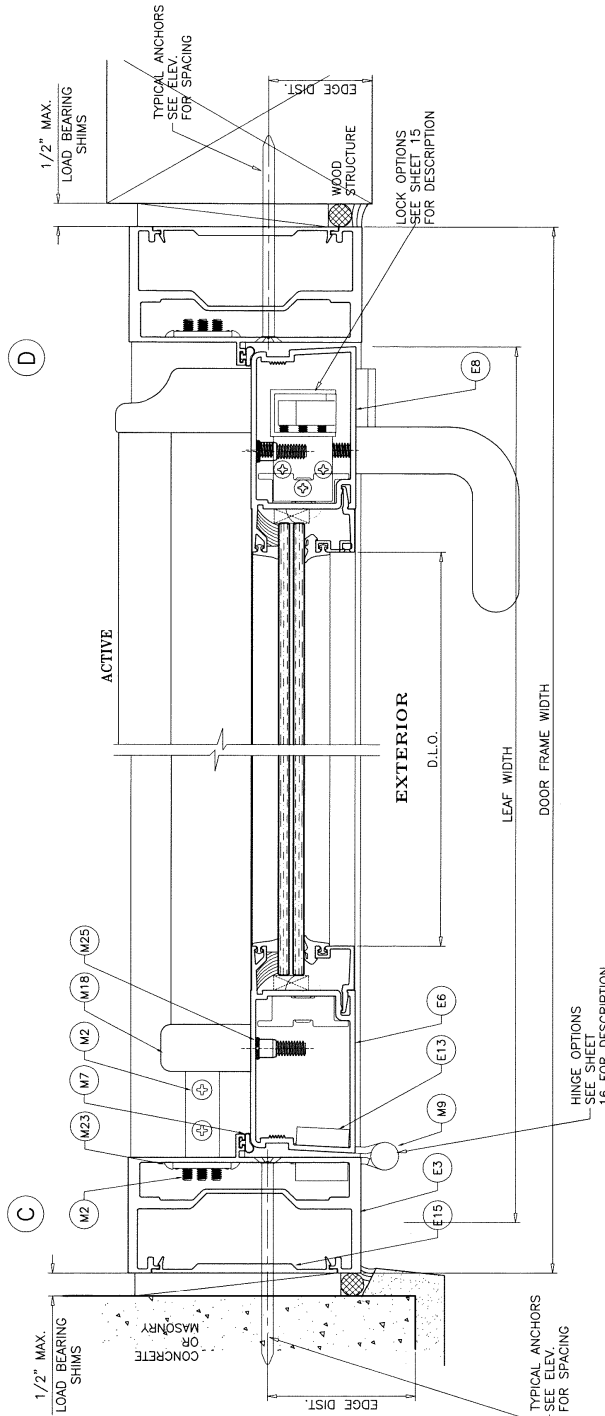
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dr. by: TARIQ
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revisions:

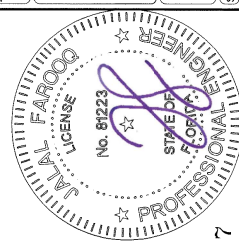
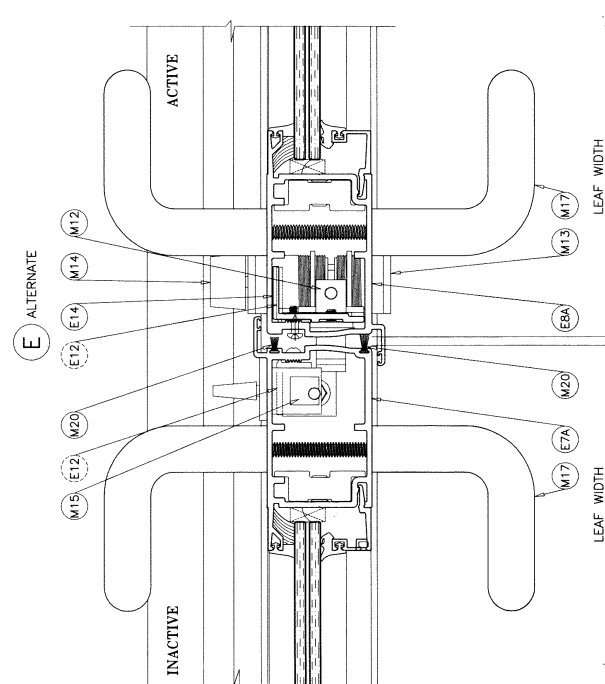
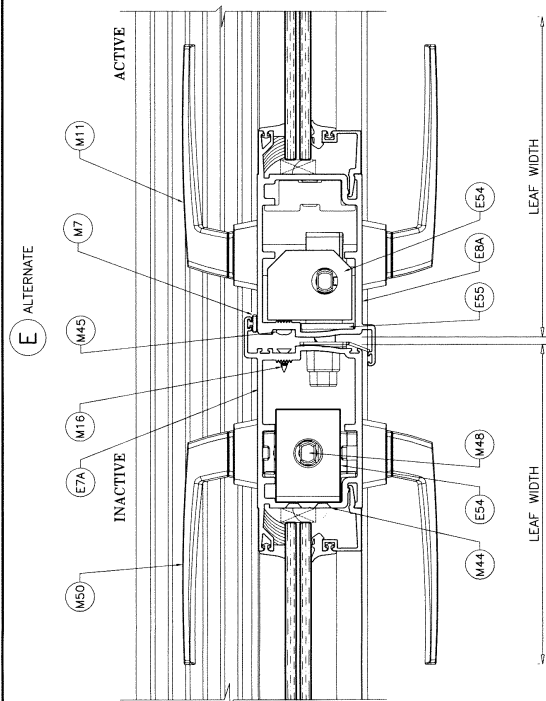
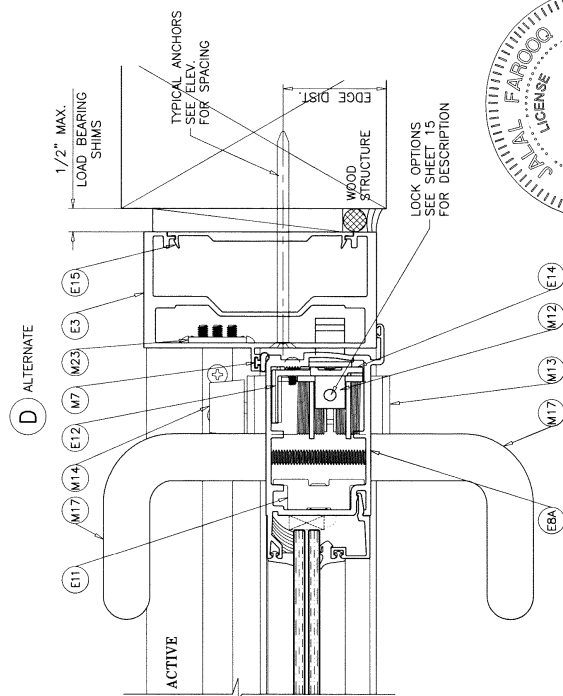
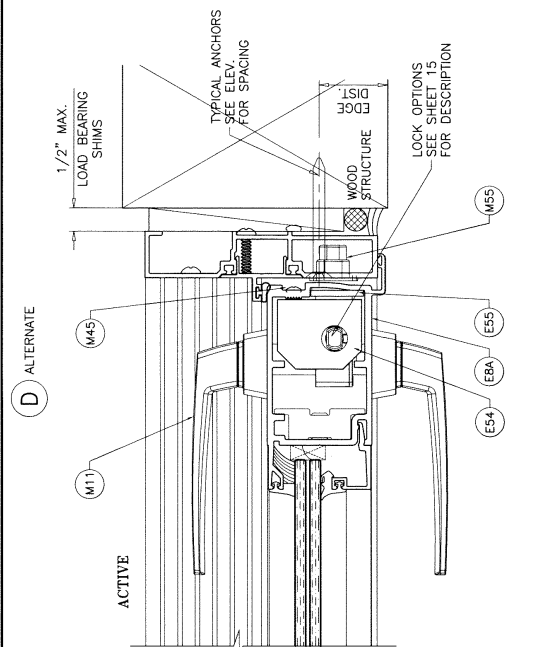
drawing no. 18-58F
sheet 10 of 21



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FL #22527





Sealed: 6/17/2025

FL #22527

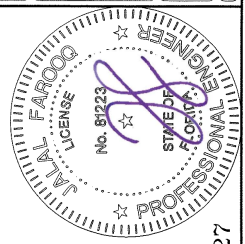
ALT. MEETING STILES NOT APPROVED FOR DOORS
WITH PANIC EXIT DEVICES.

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3538)
FAX: (305) 264-8100
COMP-ANL\18-58F-ES

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

revisions:	no	date	by description

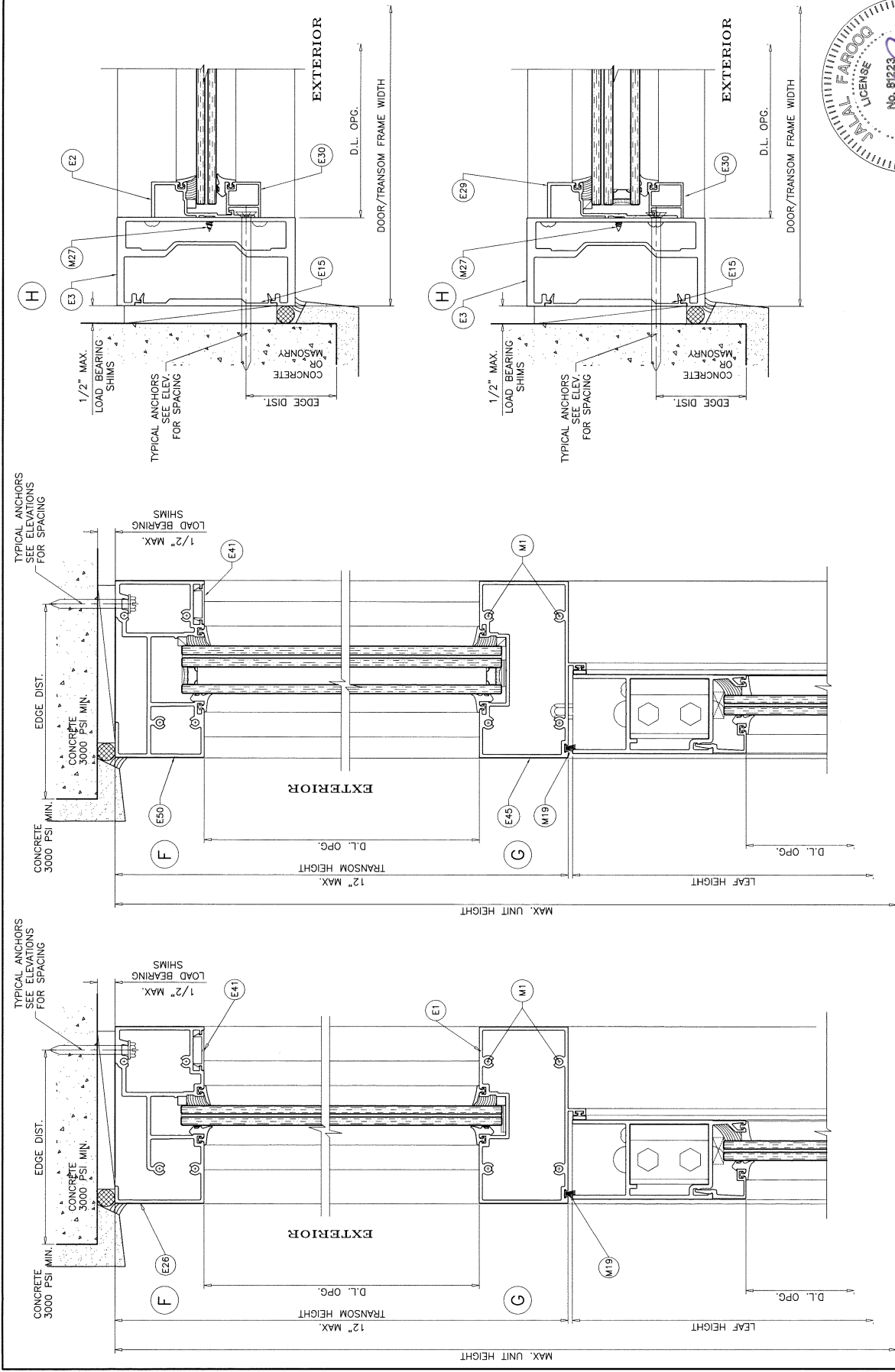
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dr. by: TARIQ
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drawing no. **18-58F**
sheet 11 of 21

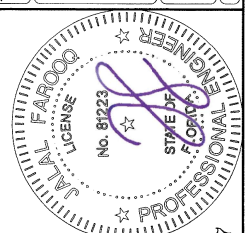


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FL #22527

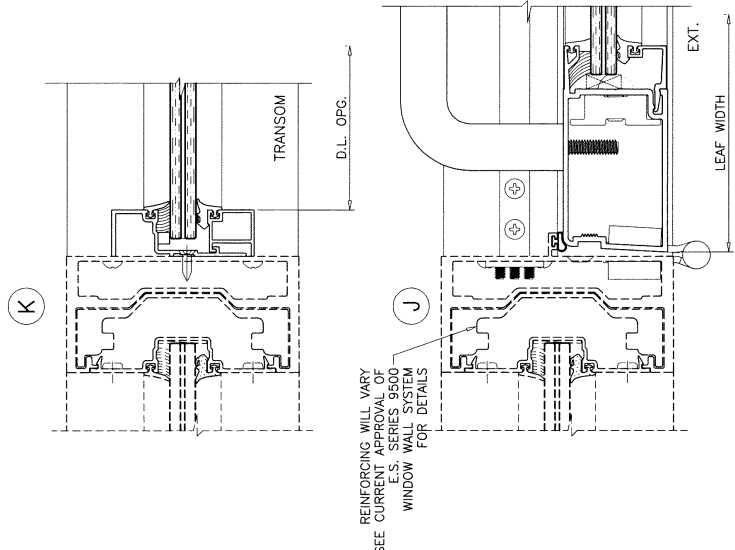
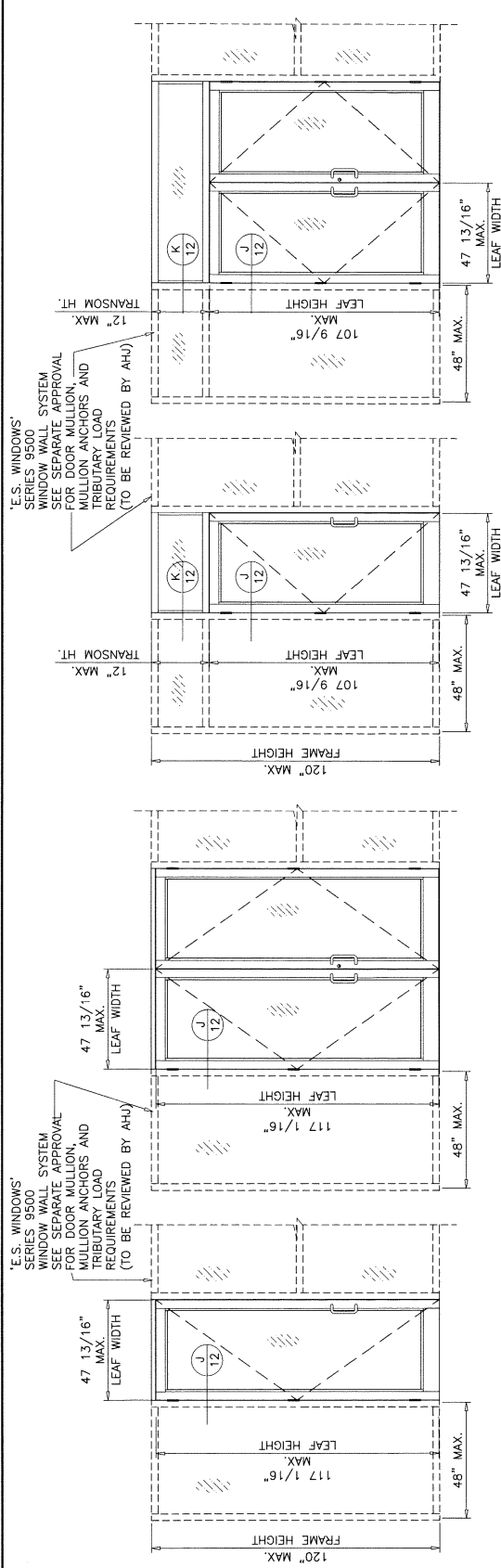
TRANSOM
SERIES-9500 FRAMES



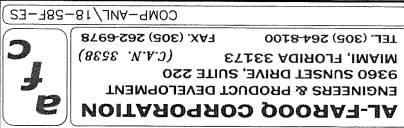


Sealed: 6/17/2025

FL #22527



F.B.C. APPROVED
SERIES 9500 WINDOW WALL SYSTEM BY 'E.S. WINDOWS'
UNDER SEPARATE APPROVAL.
LOWER VALUES FROM DOOR CAPACITY CHARTS OR
WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.



SERIES-9000-10 ALUM OUTSWING 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			

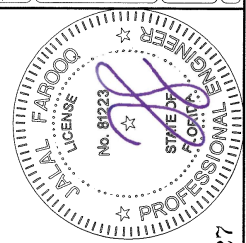
chk. by: _____

dr. by: TARIO _____

scale: $3/8" = 1"$ _____

date: 05-22-18 _____

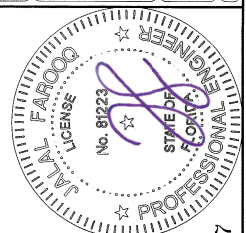
drawing no.
18-58F
sheet 13 of 21



Sealed: 6/17/2025

FL #22527

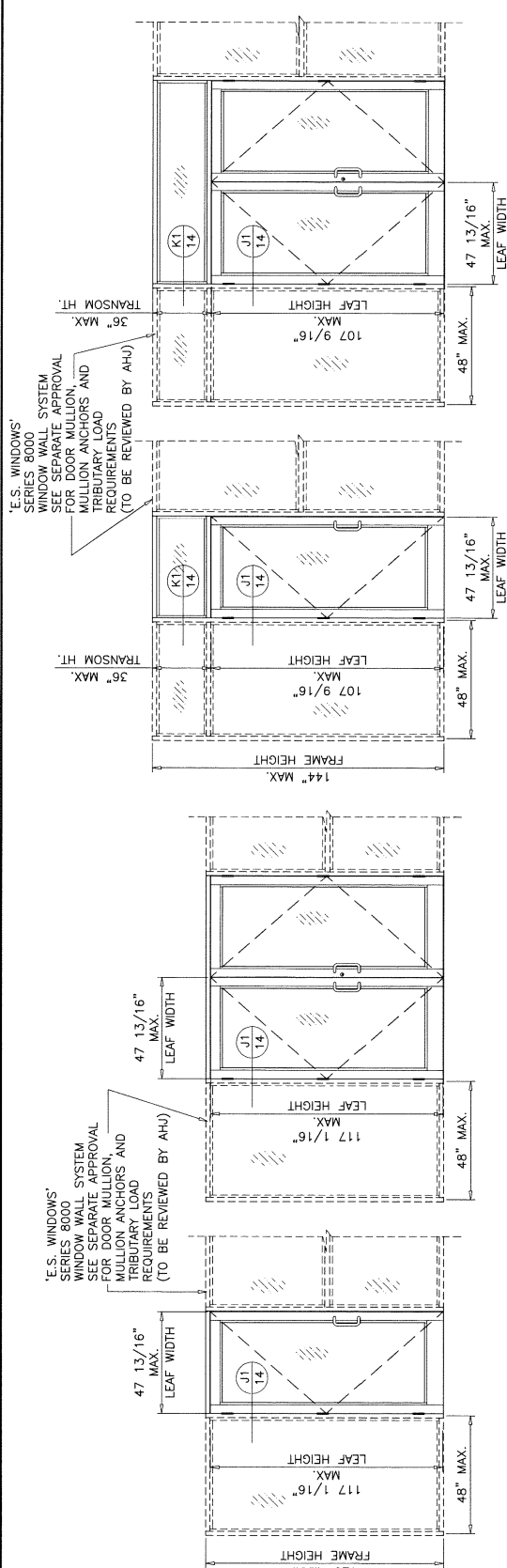
TRANSOM
SERIES-8000 FRAMES OPTION



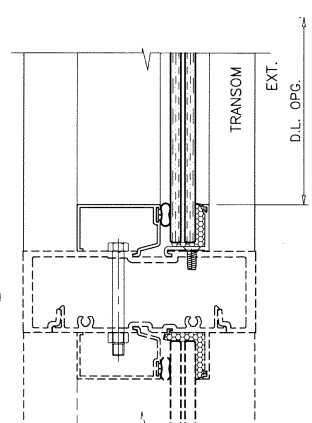
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FL #22527

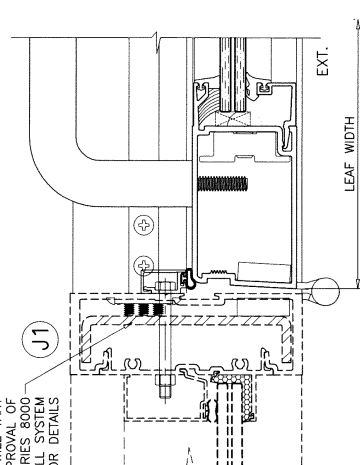
F.B.C. APPROVED
SERIES 8000 WINDOW WALL SYSTEM BY 'E.S. WINDOWS'
UNDER SEPARATE APPROVAL
LOWER VALUES FROM DOOR CAPACITY CHARTS OR
WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.



K1



REINFORCING WILL VARY
SEE CURRENT APPROVAL OF
E.S. SERIES 8000
WINDOW WALL SYSTEM
FOR DETAILS



LOCK OPTIONS:

3 POINT LOCK

OPTION #1:

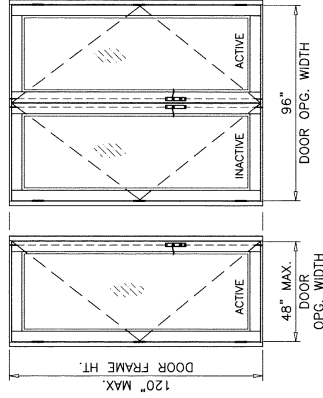
MAX. FRAME HEIGHT = 120 IN.
MAX. LEAF WIDTH = 48 IN.
MAX. DESIGN LOAD = 90 PSF

ACTIVE LEAF:

KEY OPERATED THREE POINT LOCK SYSTEM 4015/4016 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL FASTENED WITH
(2) #12-24 X 1/2" FH MACHINE SCREWS

INACTIVE LEAF:

MANUALLY OPERATED TWO POINT LOCK SYSTEM 1880/81 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL FASTENED WITH
(2) #8-32 X 1/4" PH MACHINE SCREWS

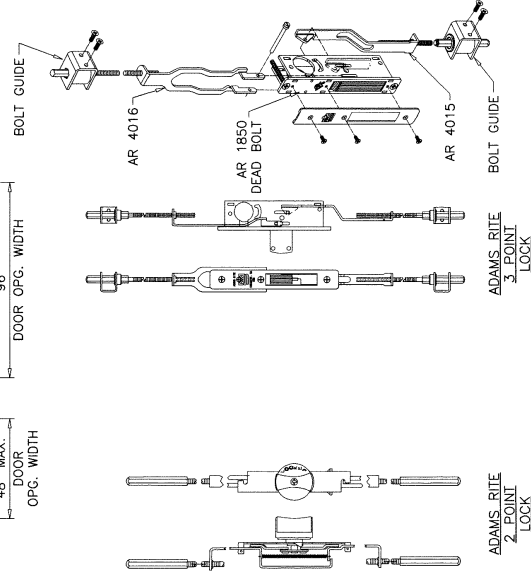


ACTIVE LEAF:

SURFACE MOUNT 3 POINT MORTISE LOCK SYSTEM BY 'INTERLOCK USA' KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR LEVER TYPE HANDLE AT 40" FROM BOTTOM ACTIVATES SHOOT BOLTS ENGAGING AT HEAD AND SILL FASTENED WITH
(2) #10 X 3/4" FH SMS

INACTIVE LEAF:

SURFACE MOUNT 2 POINT LOCK SYSTEM BY 'INTERLOCK USA' LEVER TYPE HANDLE AT 40" FROM BOTTOM ACTIVATES SHOOT BOLTS ENGAGING AT HEAD AND SILL FASTENED WITH
(2) #10 X 3/4" FH SMS



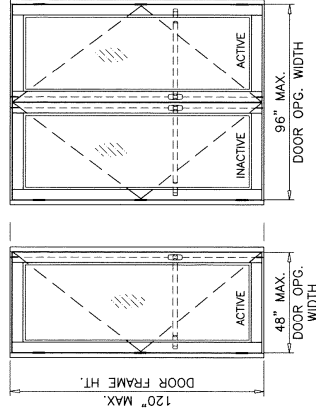
PANIC EXIT DEVICE

OPTION #2:

PANIC EXIT DEVICE
MAX. FRAME HEIGHT = 120 IN.
MAX. LEAF WIDTH = 48 IN.
MAX. DESIGN LOAD = 90 PSF

ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE SERIES 3347 BY 'VON DUBRN' LOCATED AT 40" FROM SILL AT EACH LEAF FASTENED WITH
(2) #10-32 X 3/4" FH MACHINE SCREWS AT ONE END AND
(2) #10-24 X 1/2" FH MACHINE SCREWS AT OTHER END

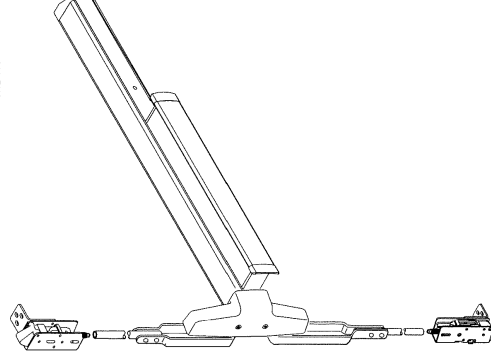
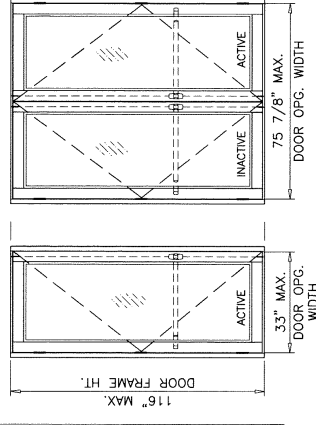


OPTION #3:

PANIC EXIT DEVICE
MAX. FRAME HEIGHT = 116 IN.
MAX. LEAF WIDTH = 38 IN.
MAX. DESIGN LOAD = 114 PSF

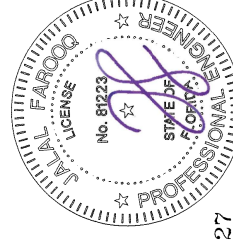
ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE SERIES 1690 BY 'VON DUBRN' LOCATED AT 40" FROM SILL AT EACH LEAF FASTENED WITH
(2) #10-32 X 3/4" FH MACHINE SCREWS AT ONE END AND
(2) #10-24 X 1/2" FH MACHINE SCREWS AT OTHER END



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FL #22527



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

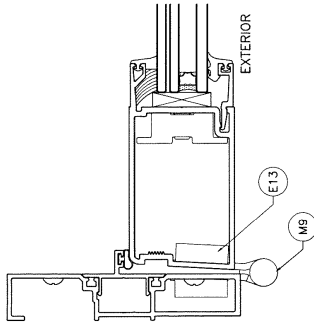
SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL: (305) 638-5151
FAX: (305) 638-5158

revisions:	no	date	by	description
date:	05-22-18	scale:	-	dr. by: TARIQ
drawing no:	18-58F	chk. by:		
sheet	15 of 21			

HINGES:

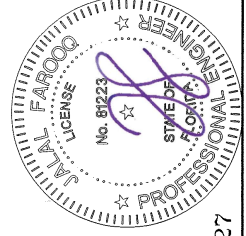
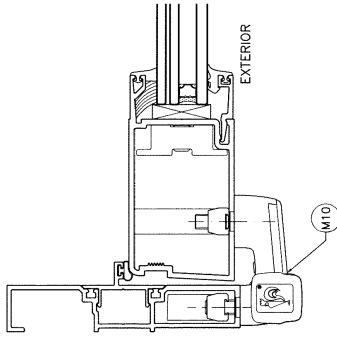
OPTION #1:

4 X 4-3/4" ST. STEEL BALL BEARING BUTT HINGES
LOCATED AT
11" FROM TOP & BOTTOM AND AT MIDSPAN
FASTENED TO DOOR, FRAME AND LEAF STILE WITH
(4) #12-24 X 1/2" FH MACHINE SCREWS PER HASP



OPTION #2:

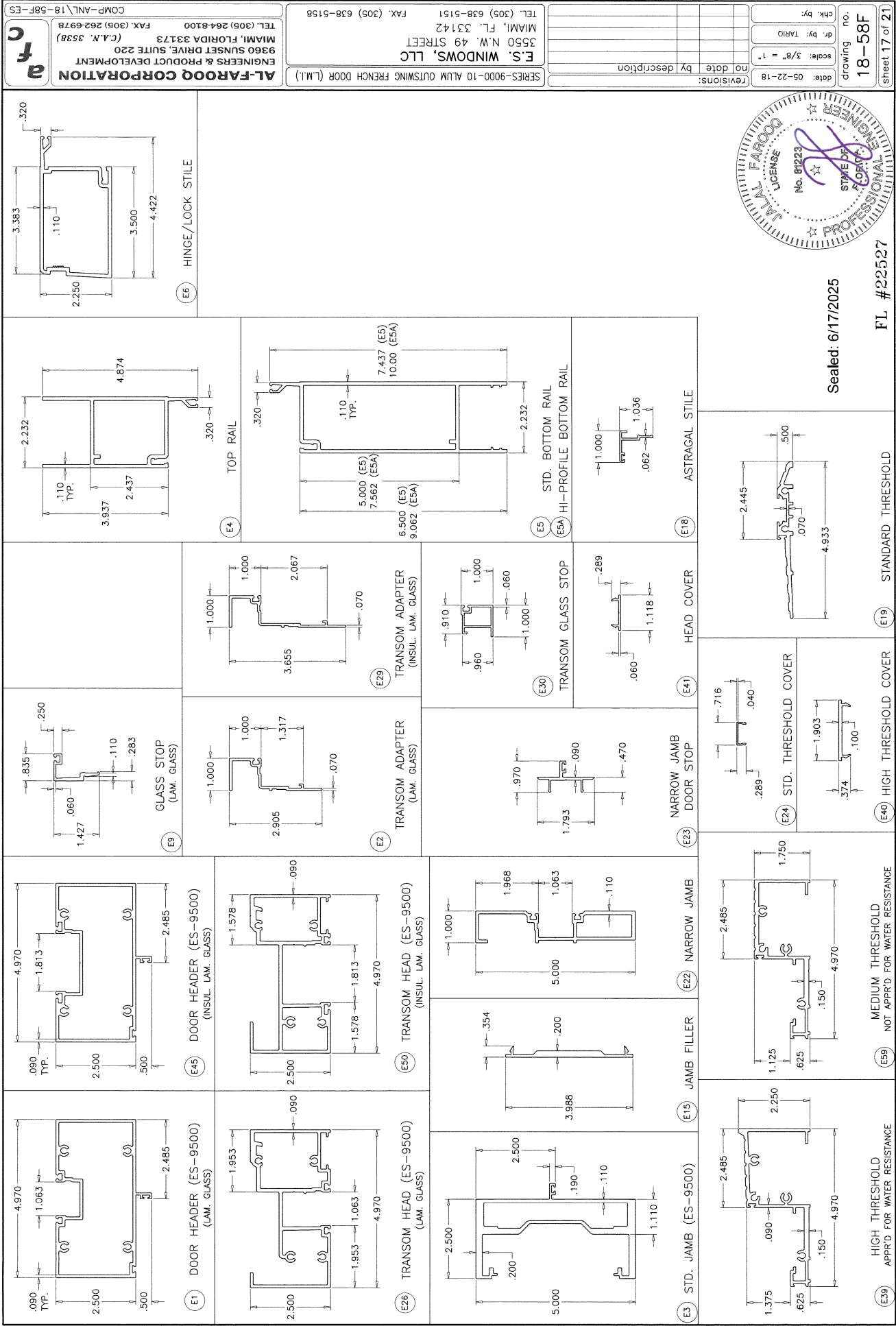
SERIES 60AT (OR HAHN A701) DIE CAST ALUMINUM HINGE
BY 'DR HAHN'
(2) HINGES PER LEAF AT 6" FROM TOP & BOTTOM

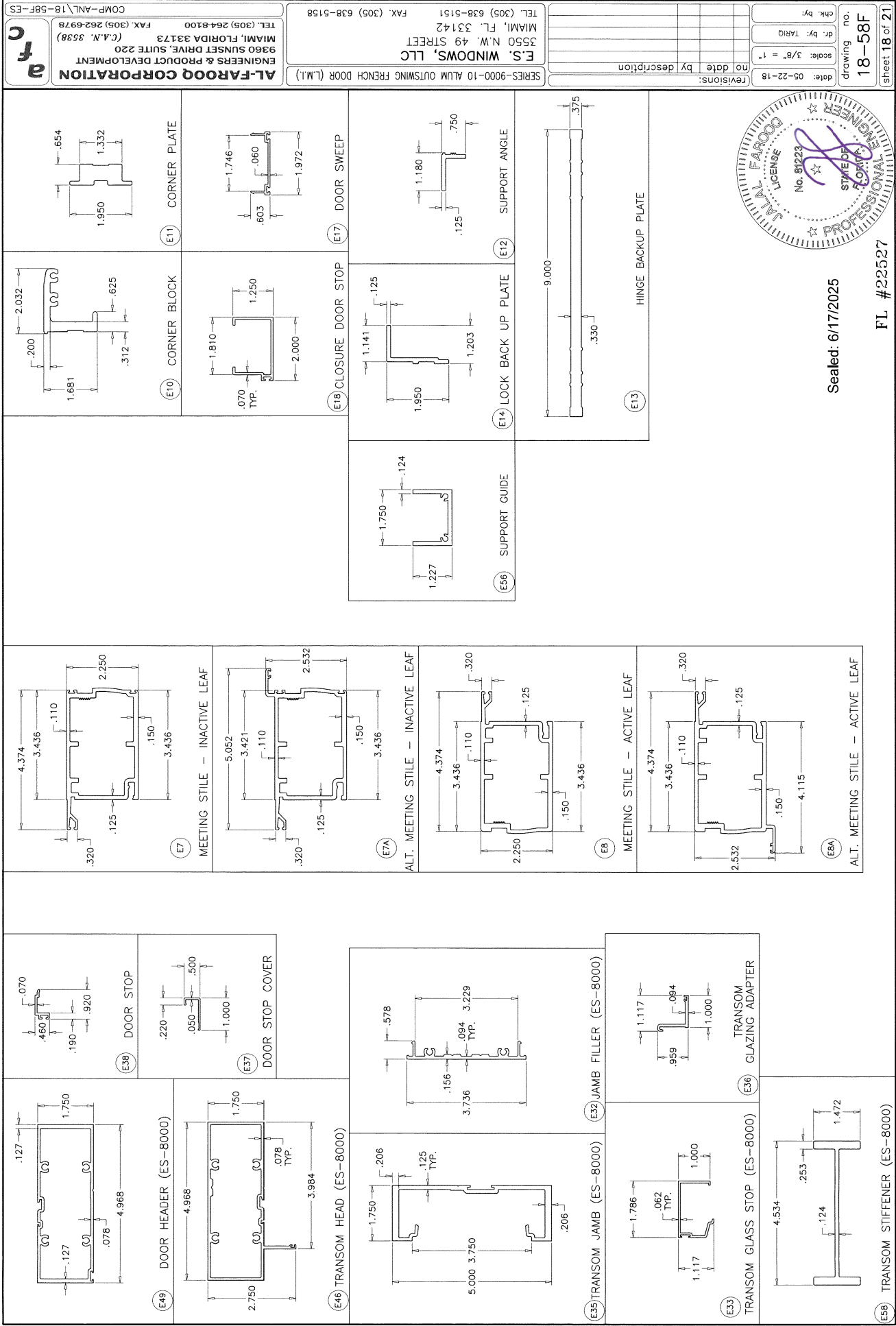


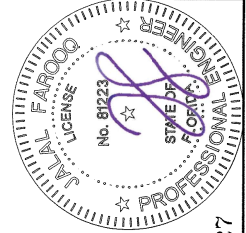
Sealed: 6/17/2025

FL #22527

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\18-58F-ES	
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158		SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.I.)	
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drawing no. 18-58F		sheet 16 of 21	

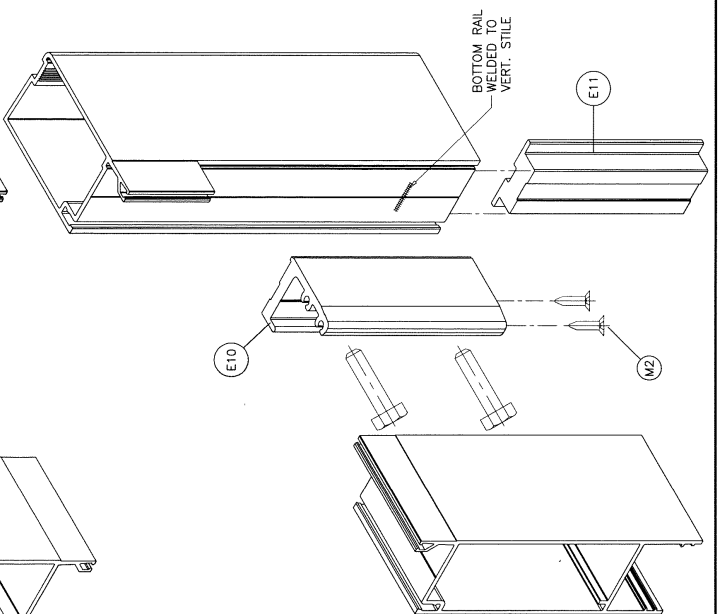
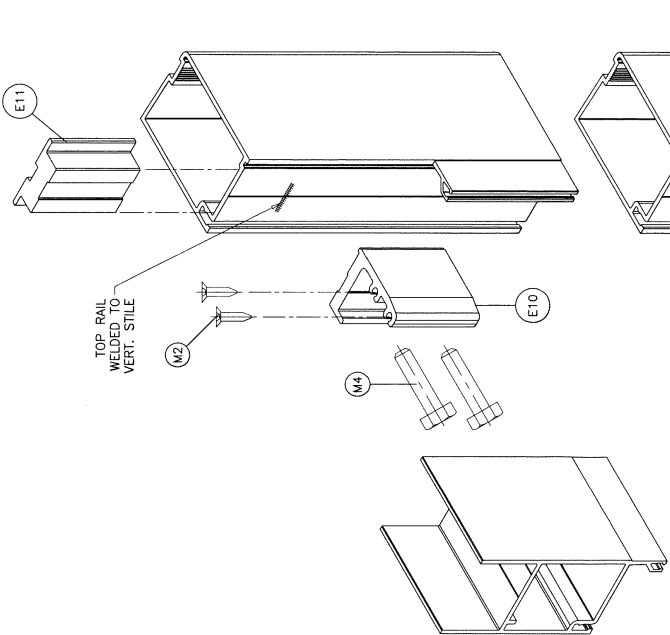
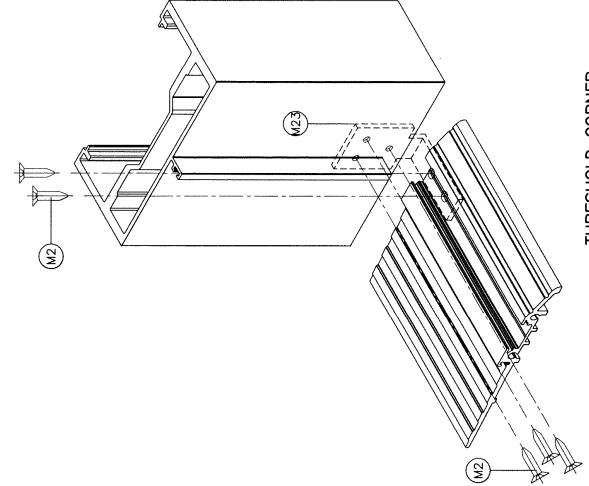
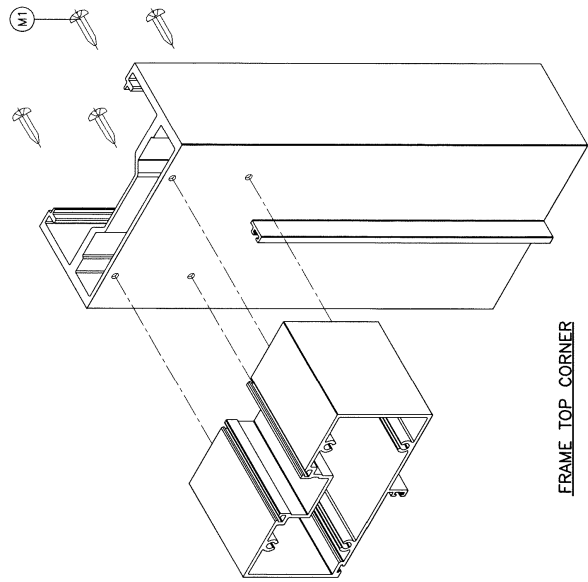






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FL #22527



COMP-ANL\18-58F-ES

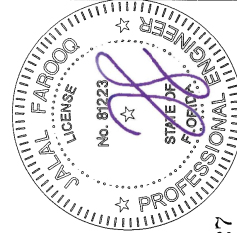
AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
(C.A.N. 3538)
FAX: (305) 264-8100

SERIES-9000-10 ALUM OUTSWING FRENCH DOOR (L.M.)

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

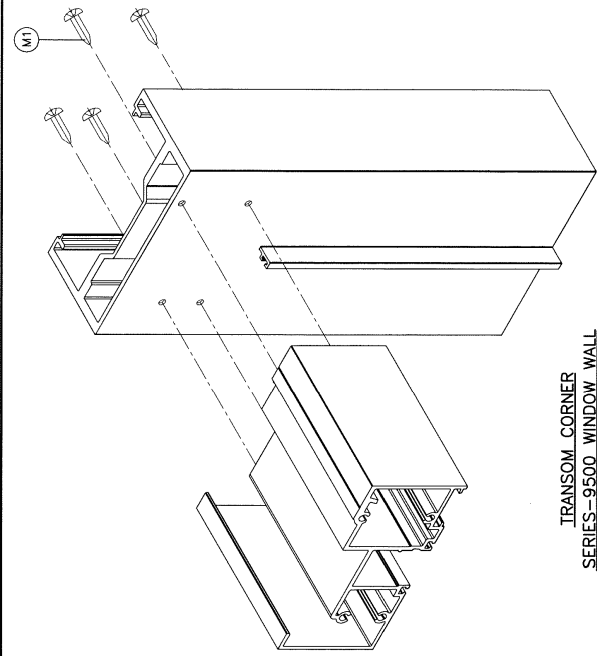
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dr. by: TARIQ
scale: -
date: 05-22-18
drawing no. **18-58F**
sheet 21 of 21



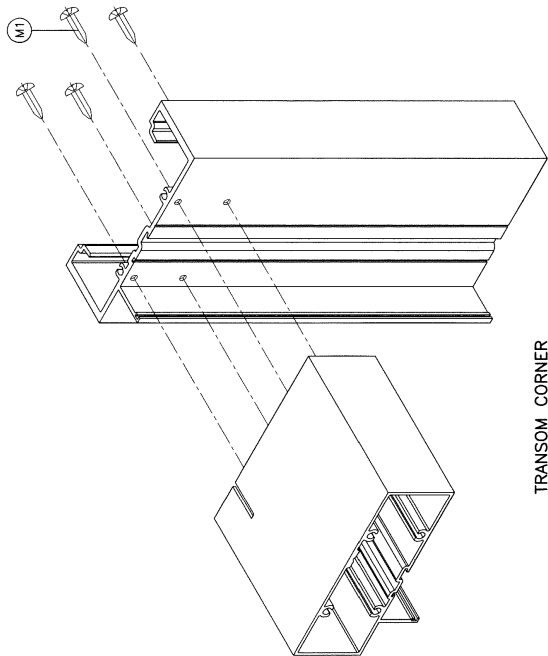
Sealed: 6/17/2025

FL #22527

SINGLE DOOR
MED. & HI-THRESHOLD CORNER



TRANSOM CORNER
SERIES-9500 WINDOW WALL



TRANSOM CORNER
SERIES-8000 WINDOW WALL

