

SERIES MG500

ALUMINUM OUTSWING ENTRANCE DOOR

SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF SINGLE DOORS WITH OR WITHOUT TRANSOMS.

SEE SHEETS 3 & 4 FOR DESIGN LOAD CAPACITY OF DOUBLE DOORS WITH OR WITHOUT TRANSOMS.

SEE SHEET 5 FOR DESIGN LOAD CAPACITY OF SINGLE AND DOUBLE DOORS WITHOUT TRANSOMS WITH ADDITIONAL OPTIONS.

SEE SHEET 6 FOR DESIGN LOAD CAPACITY OF SINGLE DOORS WITHOUT TRANSOMS WITH HIGHER LOAD CAPACITY.

DOORS CAN ALSO BE USED WITH 'MR. GLASS' SERIES MG5000 OR SERIES 9500 STOREFRONT SYSTEMS UNDER SEPARATE APPROVAL. DOOR MULLION ATTACHMENT, END LOAD AND CAPACITY TO BE REVIEWED BY BUILDING OFFICIAL.

DOORS WITH STANDARD AND SADDLE THRESHOLD ARE NOT APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. DOORS USING ES-9026 (HIGH THRESHOLD OPTION) ARE APPROVED FOR WATER INFILTRATION RESISTANCE. SEE SHEETS 8 & 18 FOR DETAILS.

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

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

GLASS D.L.O. DIMS.

D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.250" (STD. THRESHOLD)
D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.625" (SADDLE THRESHOLD)
D.L.O. HEIGHT (DOOR) = FRAME HEIGHT - 15.750" (HIGH THRESHOLD)
D.L.O. WIDTH (DOOR) = FRAME WIDTH - 14.0625"

D.L.O. HEIGHT (ES-9500 TRANSOM) = TRANSOM HEIGHT - 5"
D.L.O. WIDTH (ES-9500 TRANSOM) = FRAME WIDTH - 7"

D.L.O. HEIGHT (ES-8000 TRANSOM) = TRANSOM HEIGHT - 5.5"
D.L.O. WIDTH (ES-8000 TRANSOM) = FRAME WIDTH - 5.5"

LEAF HEIGHT = FRAME HEIGHT - 2.938" (STD. THRESHOLD)
LEAF HEIGHT = FRAME HEIGHT - 2.563" (SADDLE THRESHOLD)
LEAF HEIGHT = FRAME HEIGHT - 2.438" (HIGH THRESHOLD)
LEAF WIDTH = FRAME WIDTH - 5.188"

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

NOTE:
VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

Sealed: 1/5/2021 FL #27001

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.



SERIES-MG500 ALUM OUTSWING FRENCH DOOR (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
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Tel. (305) 764-3963 Fax. (305) 470-8285

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COMP-ANL\18-47F-MG

revisions:		no	date	by	description
		A	06.14.18		GENERAL REVISION
		B	04.30.20		GENERAL REVISION
		C	07.23.20		UPDATED TO 2020 FBC

date: 04-20-18
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
18-47F
sheet 1 of 18

**SINGLE DOORS WITH OR WITHOUT TRANSOMS
USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE**

- 1- FOR GLASS TYPE, LOCK AND HINGE OPTIONS
OBTAIN LOAD CAPACITIES FROM TABLE #D1.
- 2- SELECT THRESHOLD TYPE TO BE USED.
WATER RATED HIGH THRESHOLD ITEM #E2B (ES-9026) +120.0 PSF
NON WATER RATED (STANDARD THRESHOLD +90.0 PSF)
NON WATER RATED (SADDLE THRESHOLD +80.0 PSF)
- 3- FOR JAMB ANCHORS TYPE/SHIMSPACE OBTAIN
LOAD CAPACITIES FROM TABLE #J1.
- 4- TRANSOMS FOR SINGLE DOORS ARE LIMITED TO ±90.0 PSF *
SEE ELEVATION AT RIGHT FOR TRANSOM END ANCHORS.
THE LOWEST VALUES FROM STEPS 1, 2, 3
AND 4 WILL GOVERN.

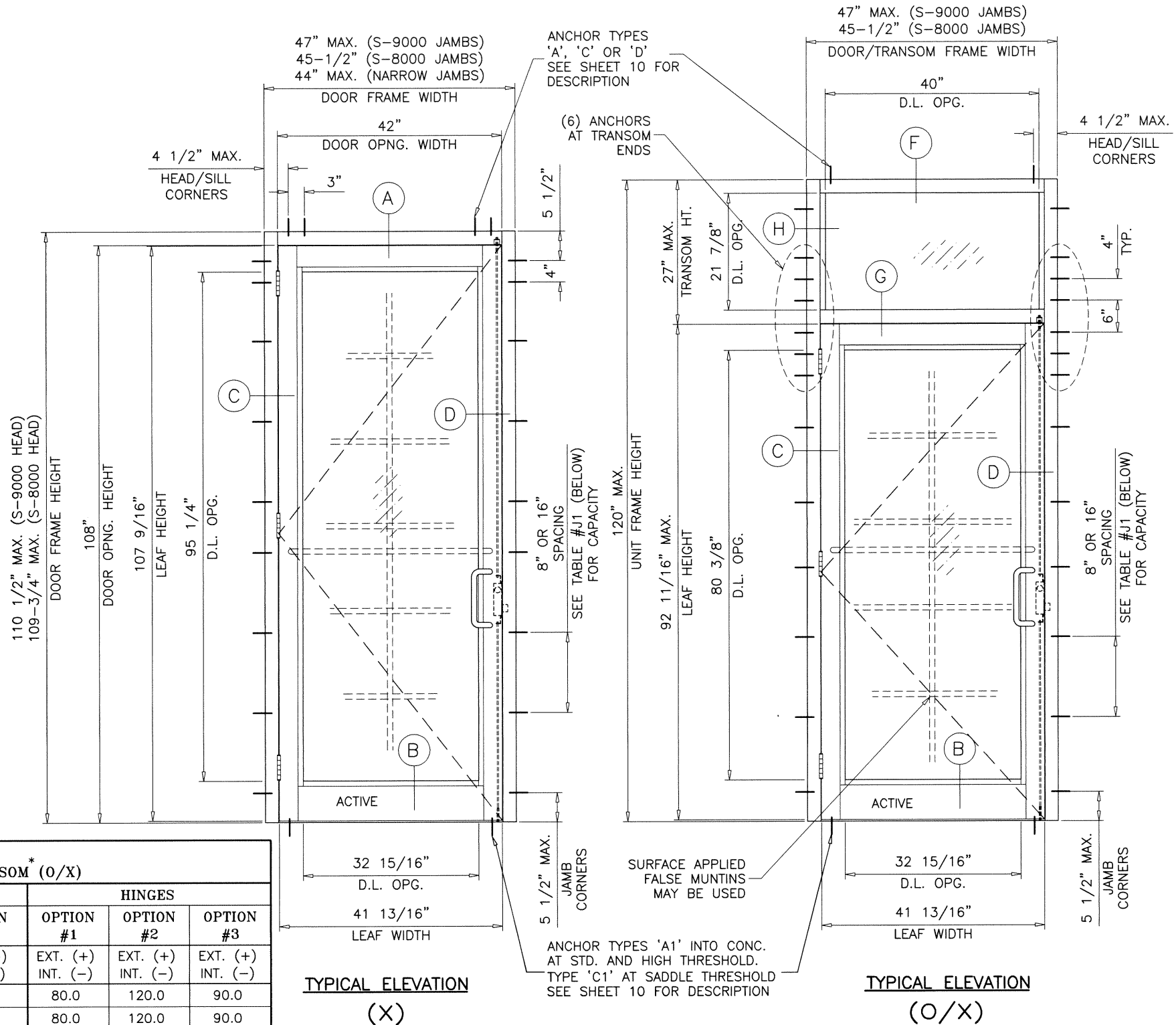
TABLE #D1		DOORS LOAD CAPACITY - PSF SINGLE DOORS WITHOUT TRANSOM (X) OR WITH TRANSOM* (O/X)								
DOOR DIMS.		GLASS			LOCKS			HINGES		
		TYPE 'A'	TYPE 'B'/'C'	TYPE 'A.2'/'C.1'/'D'	OPTION #1	OPTION #2/2.1	OPTION #3	OPTION #1	OPTION #2	OPTION #3
DOOR OPG. WIDTH	DOOR OPG. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
42"	96"	80.0	120.0	90.0	80.0	90.0	120.0	80.0	120.0	90.0
42"	108"	80.0	120.0	90.0	80.0	90.0	120.0	80.0	120.0	90.0

SINGLE DOORS WITH SADDLE THRESHOLD LIMITED TO +80.0, -80.0 PSF

SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

TABLE #J1		JAMB ANCHORS LOAD CAPACITY - PSF (NOT APPLICABLE AT TRANSOM ENDS SEE NOTE 4) SINGLE DOORS WITHOUT TRANSOM (X) OR WITH TRANSOM (O/X)													
DOOR DIMS.		1/4" SHIM SPACE						3/8" SHIM SPACE				1/2" SHIM SPACE			
		SPACING AT 16" O.C.		SPACING AT 8" O.C.		AT 16" O.C.		AT 8" O.C.		AT 16" O.C.		AT 8" O.C.			
		ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'
DOOR OPG. WIDTH	DOOR OPG. HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
35"	108"	112.5	120.0	120.0	120.0	120.0	120.0	82.5	82.5	120.0	120.0	64.2	92.7	120.0	120.0
42"	108"	95.7	111.0	120.0	120.0	120.0	120.0	70.2	100.0	120.0	120.0	54.6	78.9	109.2	120.0

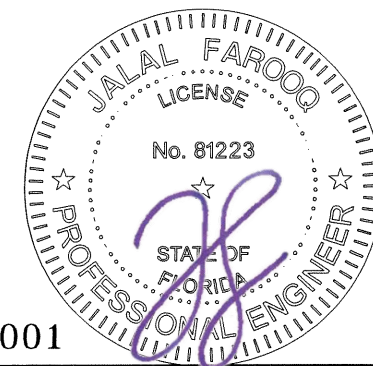
SEE SHEET 10 FOR ANCHOR DESCRIPTION



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

Sealed: 1/5/2021

FL #27001

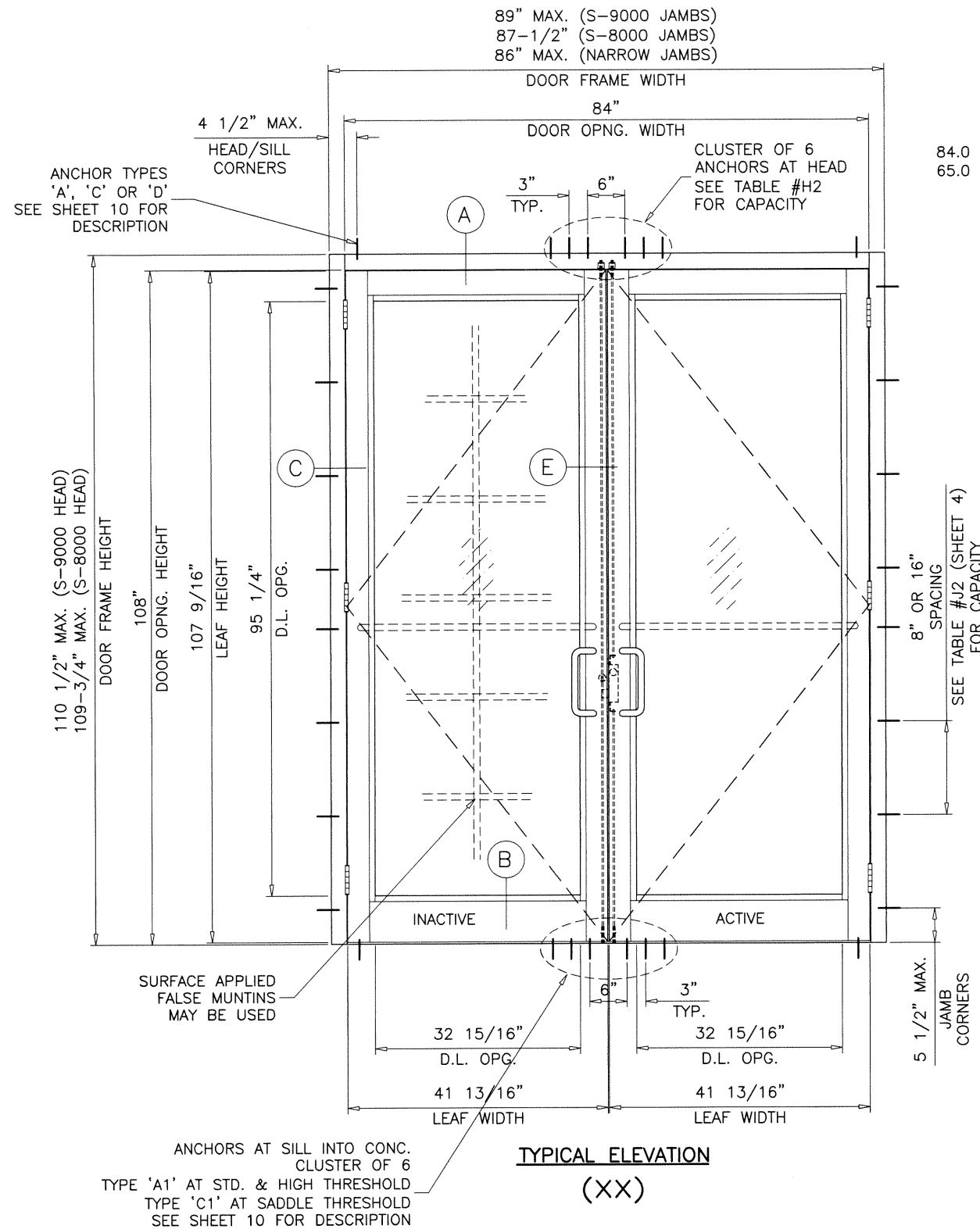


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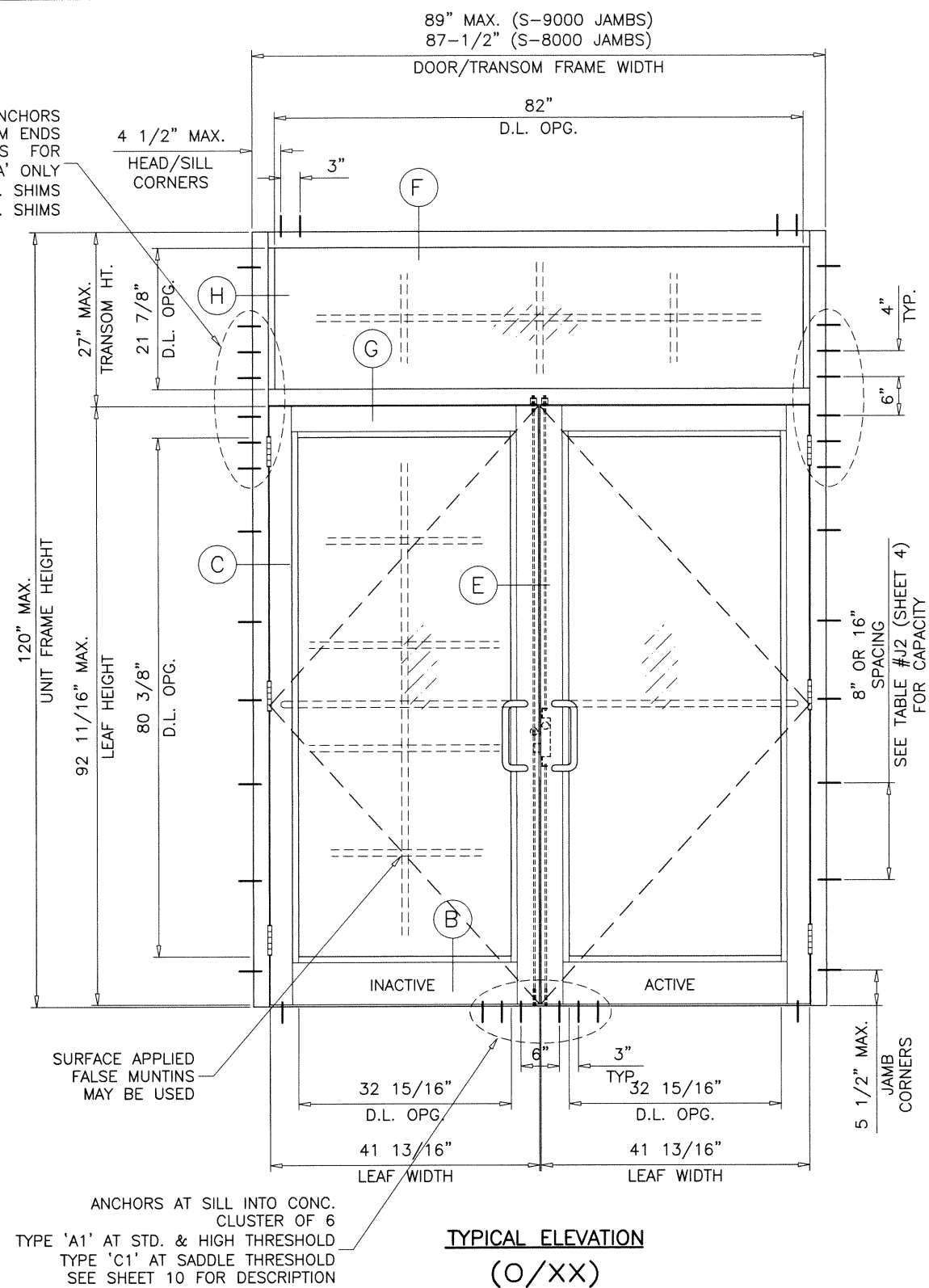
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revisions:		no		date		by		description	

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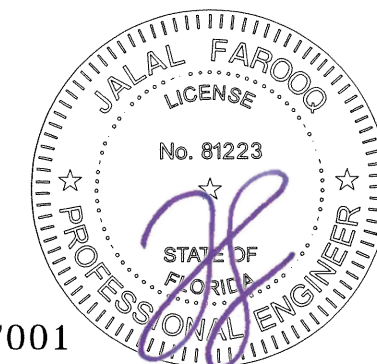
(6) ANCHORS AT TRANSOM ENDS LIMIT MAX. LOADS FOR ANCHORS TYPE 'A' ONLY
84.0 PSF WITH 3/8" MAX. SHIMS
65.0 PSF WITH 1/2" MAX. SHIMS



SEE CHARTS ON SHEET 4 FOR DOUBLE DOOR AND TRANSOM LOAD CAPACITY

Sealed: 1/5/2021

FL #27001



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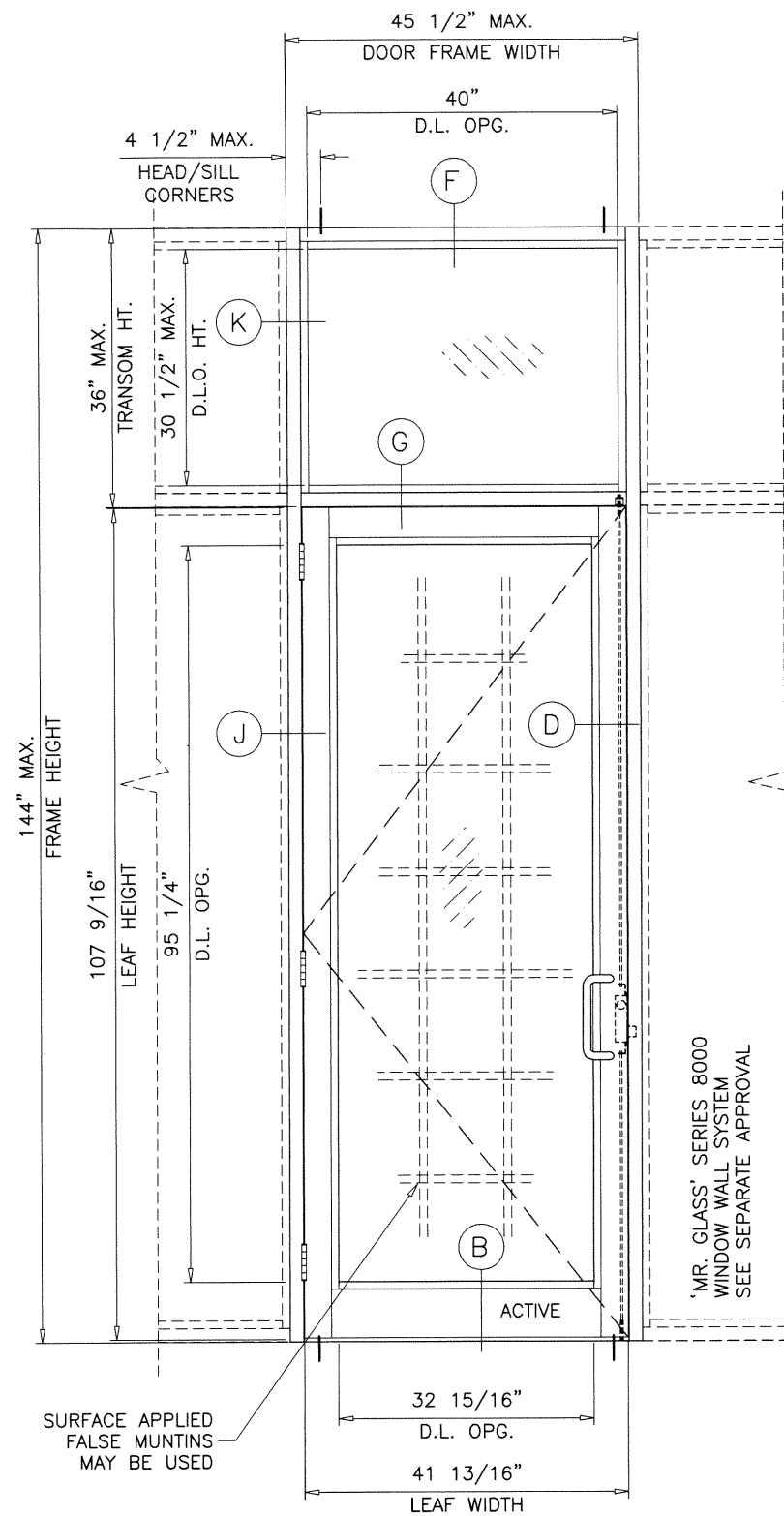
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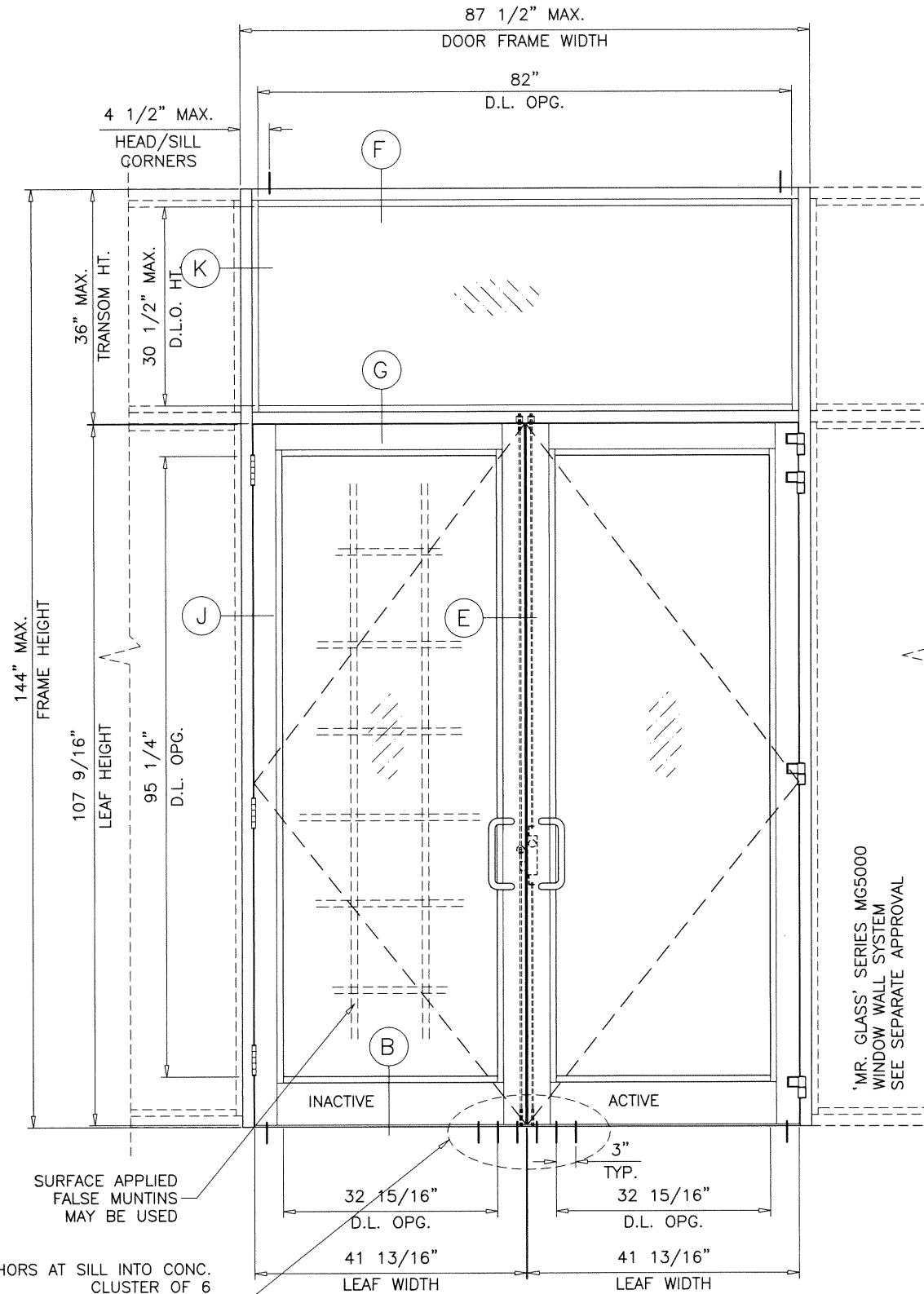
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drawing no.
18-47F
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TYPICAL ELEVATION
SINGLE (O/X)
(ES-8000 TRANSOM)

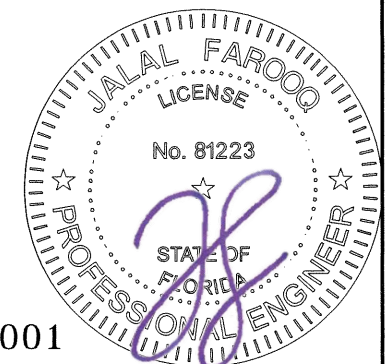


TYPICAL ELEVATION
DOUBLE (O/XX)
(ES-8000 TRANSOM)

SINGLE (O/X) AND DOUBLE (O/XX) DOORS WITH 36" MAX. TRANSOM HEIGHTS
APPROVED WITH ES-8000 WINDOW WALL SYSTEM ONLY
LIMIT MAX. DESIGN LOADS TO ±90.0 PSF
GLASS AT TRANSOM TYPE 'B' ONLY

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DOUBLE DOORS WITH OR WITHOUT TRANSOMS
USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE

- 1- FOR GLASS TYPE, LOCK AND HINGE OPTIONS
OBTAIN LOAD CAPACITIES FROM TABLE #D2.
- 2- SELECT THRESHOLD TYPE TO BE USED.
WATER RATED HIGH THRESHOLD ITEM #E2B (ES-9026) +90.0 PSF
NON WATER RATED (STANDARD THRESHOLD +90.0 PSF)
NON WATER RATED (SADDLE THRESHOLD +80.0 PSF)
- 3- FOR JAMB ANCHORS TYPE/SHIMSPACE OBTAIN
LOAD CAPACITIES FROM TABLE #J2.
SEE ELEVATION ON SHEET 3 FOR TRANSOM END ANCHORS.
(MIN. 6 ANCHORS REQD. IN ALL CASES)
- 4- FOR HEAD ANCHORS, TYPE/SHIMSPACE OBTAIN
LOAD CAPACITIES FROM TABLE #H2.
THE LOWEST VALUES FROM STEPS 1, 2, 3
AND 4 WILL GOVERN.

TABLE #D2		DOORS LOAD CAPACITY - PSF DOUBLE DOOR WITHOUT TRANSOM (XX) OR WITH TRANSOM (O/XX)								
DOOR DIMS.		GLASS			LOCKS				HINGES	
		TYPE 'A'	TYPE 'B'/'C'	TYPE 'A.2'/'C.1'/'D'	OPTION #1	OPTION #2	OPTION #2.1	OPTION #3	OPTION #1	OPTION #2/3
DOOR OPG. WIDTH	DOOR OPG. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
84"	96"	80.0	90.0	90.0	80.0	90.0	90.0	90.0	80.0	90.0
84"	108"	80.0	90.0	90.0	80.0	80.0	90.0	80.0	80.0	90.0

DOUBLE DOORS WITH SADDLE THRESHOLD LIMITED TO +80.0, -80.0 PSF
SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

TABLE #J2		JAMB ANCHORS LOAD CAPACITY - PSF (NOT APPLICABLE AT TRANSOM ENDS SEE NOTE 3) DOUBLE DOORS WITHOUT TRANSOM (XX) OR WITH TRANSOM (O/XX)													
DOOR DIMS.		1/4" SHIM SPACE						3/8" SHIM SPACE				1/2" SHIM SPACE			
		SPACING AT 16" O.C.		SPACING AT 8" O.C.		AT 16" O.C.		AT 8" O.C.		AT 16" O.C.		AT 8" O.C.			
		ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'D'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A'	ANCHOR 'C'
DOOR OPG. WIDTH	DOOR OPG. HEIGHT	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)
70"	108"	90.0	90.0	90.0	90.0	90.0	90.0	88.0	90.0	90.0	90.0	68.4	90.0	90.0	90.0
84"	108"	90.0	88.7	90.0	90.0	90.0	90.0	74.2	88.7	90.0	90.0	57.7	83.3	90.0	90.0

SEE SHEET 10 FOR ANCHOR DESCRIPTION

TABLE #H2		HEAD ANCHORS LOAD CAPACITY - PSF DOUBLE DOOR WITHOUT TRANSOM (XX) OR WITH TRANSOM (O/XX)							
DOOR DIMS.		1/4" SHIM SPACE			3/8" SHIM SPACE		1/2" SHIM SPACE		
		ANCHOR TYPE 'A'	ANCHOR TYPE 'C'	ANCHOR TYPE 'D'	ANCHOR TYPE 'A'	ANCHOR TYPE 'C'	ANCHOR TYPE 'A'	ANCHOR TYPE 'C'	ANCHOR TYPE 'C'
DOOR OPG. WIDTH	DOOR OPG. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
70"	96"	90.0	90.0	90.0	85.8	90.0	66.7	90.0	90.0
84"		90.0	90.0	90.0	72.3	90.0	56.2	81.2	90.0
70"	108"	90.0	90.0	90.0	76.5	90.0	59.5	85.9	90.0
84"		90.0	90.0	90.0	64.4	90.0	50.1	72.3	90.0

SEE SHEET 10 FOR ANCHOR DESCRIPTION

SILL ANCHORS DESIGN LOAD CAPACITY ALL SIZES = ± 90.0 PSF

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
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dr. by: TARIQ

chk. by:

drawing no.

18-47F

sheet 4 of 18

**SINGLE OR DOUBLE DOORS WITHOUT TRANSOMS
USE CHARTS AS FOLLOWS
FOR THE CORRESPONDING DOOR SIZE**

- 1- FOR GLASS TYPE, LOCK AND HINGE OPTIONS OBTAIN LOAD CAPACITIES FROM TABLE #D3.
 - 2- THESE DOORS APPROVED WITH STD. THRESHOLD ONLY.
 - 3- FOR JAMB ANCHORS TYPE/SHIMSPACE OBTAIN LOAD CAPACITIES FROM TABLE #J3.
 - 4- FOR HEAD ANCHORS, TYPE/SHIMSPACE OBTAIN LOAD CAPACITIES FROM TABLE #H3.
- THE LOWEST VALUES FROM STEPS 1, 3 AND 4 WILL GOVERN.

TABLE #D3 DOORS LOAD CAPACITY - PSF SINGLE(X) OR DOUBLE(X) DOORS WITHOUT TRANSOM					
SINGLE DOOR(X) DIMS.		DOUBLE DOOR(X) DIMS.		GLASS TYPE 'A.1'	LOCKS OPTION #3
DOOR OPG. WIDTH	DOOR OPG. HEIGHT	DOOR OPG. WIDTH	DOOR OPG. HEIGHT	HINGES OPTION #2.1	
35-1/4"	96-1/2"	70-1/2"	96-1/2"	EXT. (+) INT. (-)	
				105.3	

SEE SHEET 7 FOR GLASS TYPES DESCRIPTION
SEE SHEET 16 FOR LOCKS AND HINGES DESCRIPTION

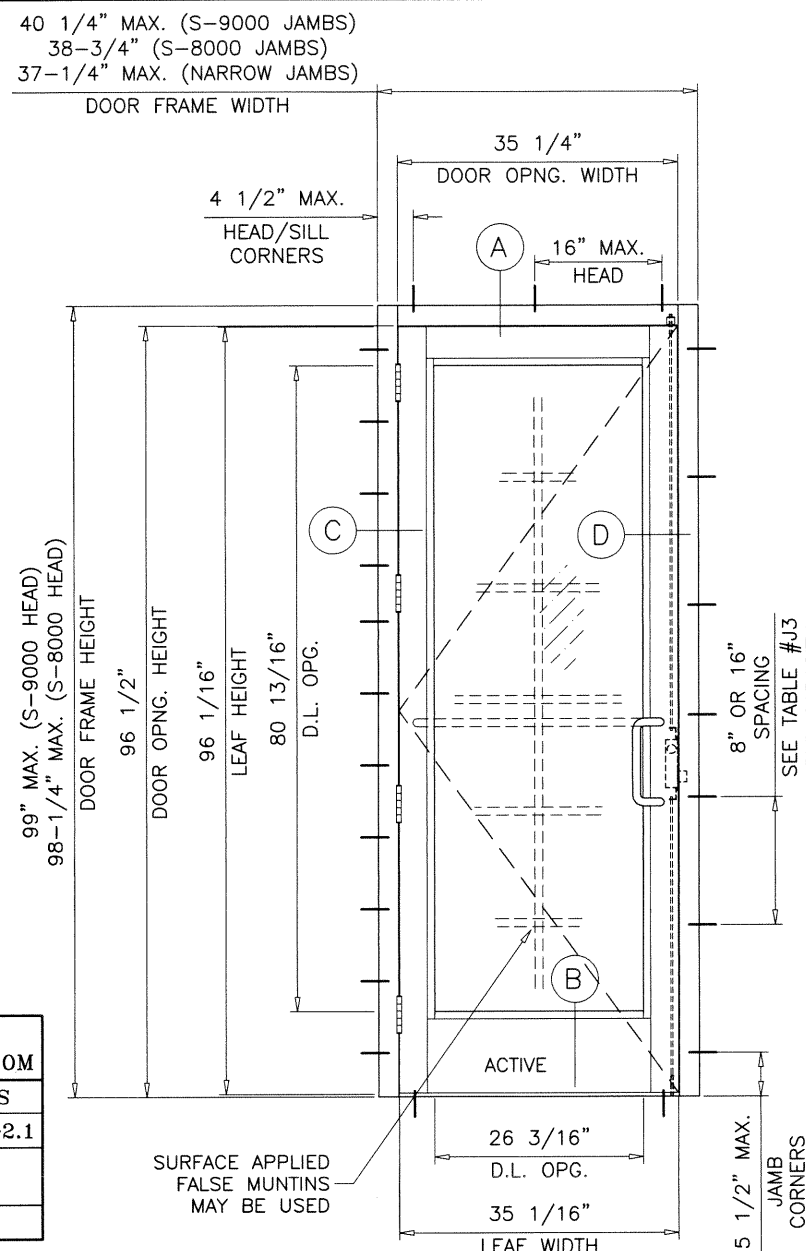
TABLE #J3 JAMB ANCHORS LOAD CAPACITY - PSF SINGLE(X) DOUBLE(X) DOORS WITHOUT TRANSOM									
SINGLE DOOR(X) DIMS.		DOUBLE DOOR(X) DIMS.		1/4" SHIM SPACE		3/8" SHIM SPACE		1/2" SHIM SPACE	
				SPACING AT 16" O.C.		AT 16"		AT 8" O.C.	
				ANCHOR 'A', 'C' & 'D'	ANCHOR 'A' & 'C'	ANCHOR 'A'	ANCHOR 'C'	ANCHOR 'A' & 'C'	ANCHOR 'A' & 'C'
DOOR OPG. WIDTH	DOOR OPG. HEIGHT	DOOR OPG. WIDTH	DOOR OPG. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
35-1/4"	96-1/2"	70-1/2"	96-1/2"	105.3	82.0	105.3	105.3	63.8	92.1

SEE SHEET 10 FOR ANCHOR DESCRIPTION

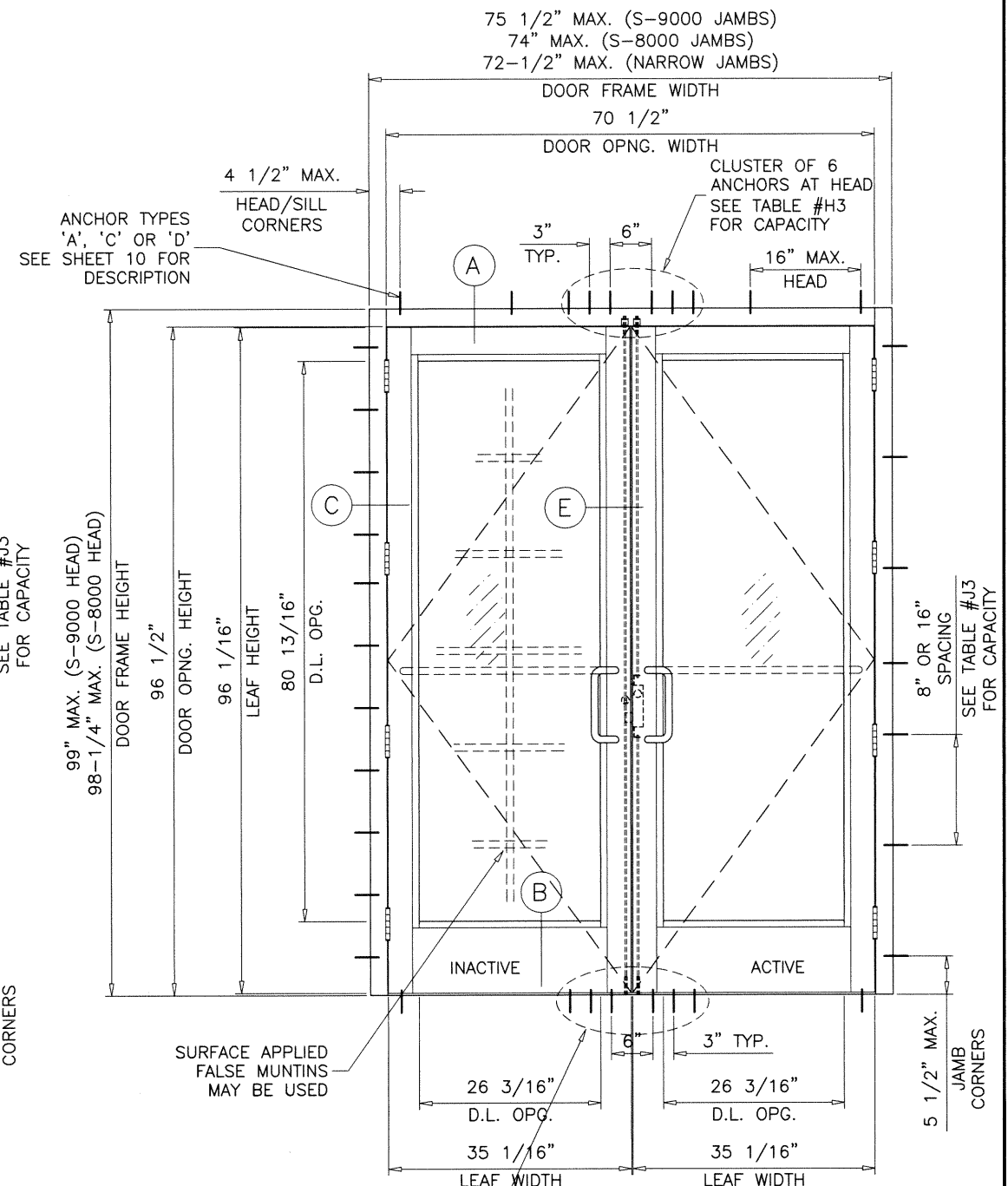
TABLE #H3 HEAD ANCHORS LOAD CAPACITY - PSF DOUBLE DOOR WITHOUT TRANSOM(X)					
DOOR DIMS.		1/4" SHIM SPACE		3/8" SHIM SPACE	
		ANCHOR 'A', 'C' & 'D'	ANCHOR TYPE 'A'	ANCHOR TYPE 'C'	ANCHOR TYPE 'A'
DOOR OPG. WIDTH	DOOR OPG. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
70-1/2"	96-1/2"	105.3	98.9	105.3	76.9

SEE SHEET 10 FOR ANCHOR DESCRIPTION

SILL ANCHORS DESIGN LOAD CAPACITY ALL SIZES = ± 105.3 PSF



TYPICAL ELEVATION (X)

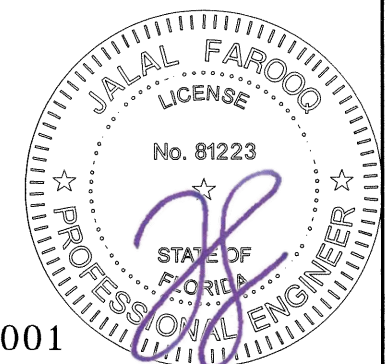


TYPICAL ELEVATION (XX)

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

Sealed: 1/5/2021

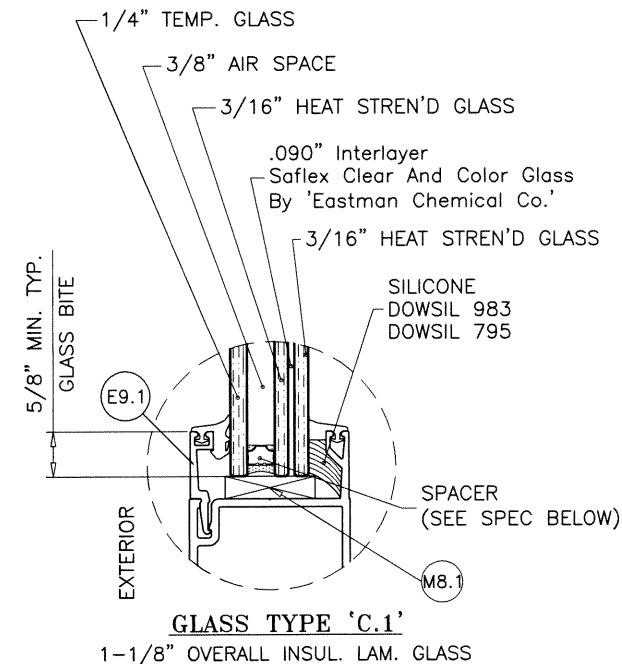
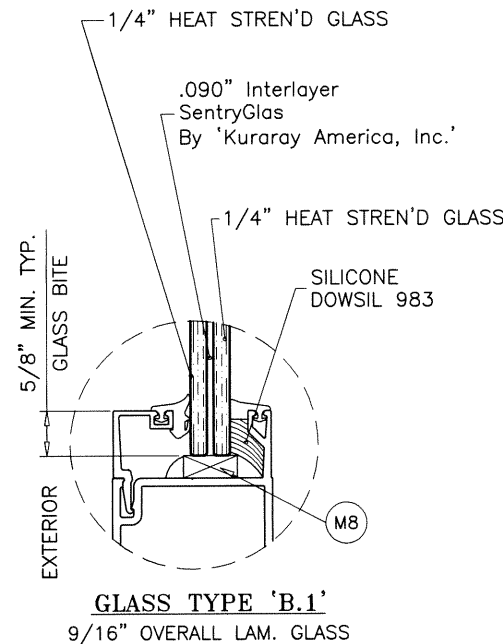
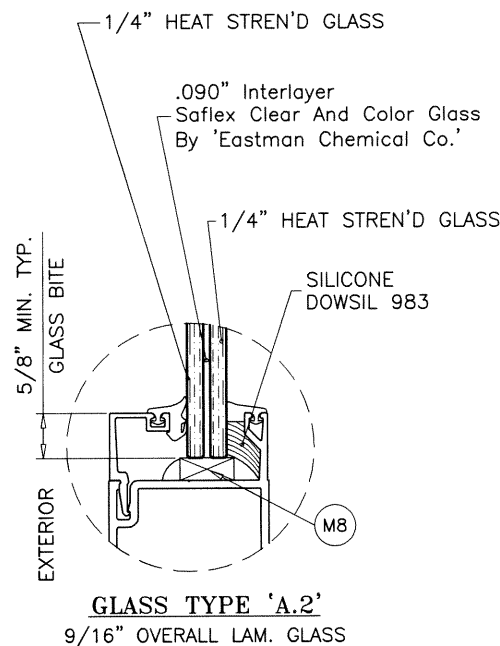
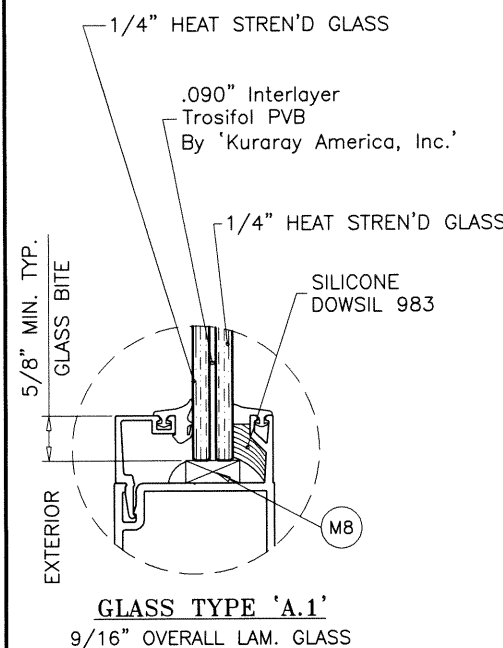
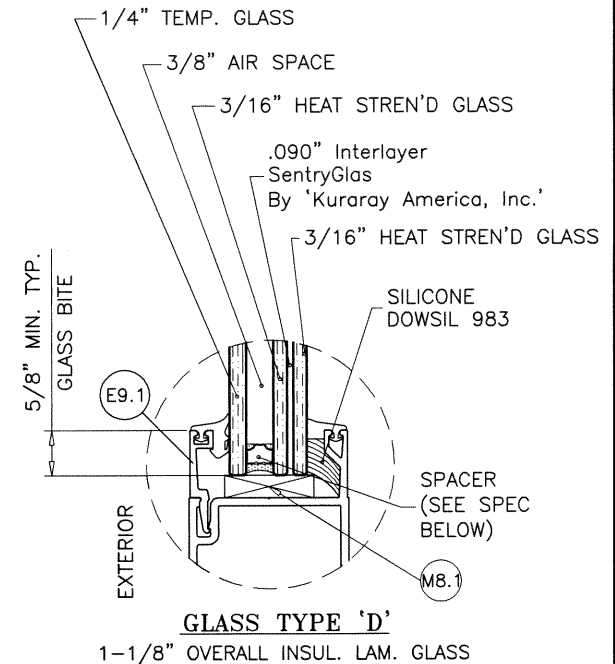
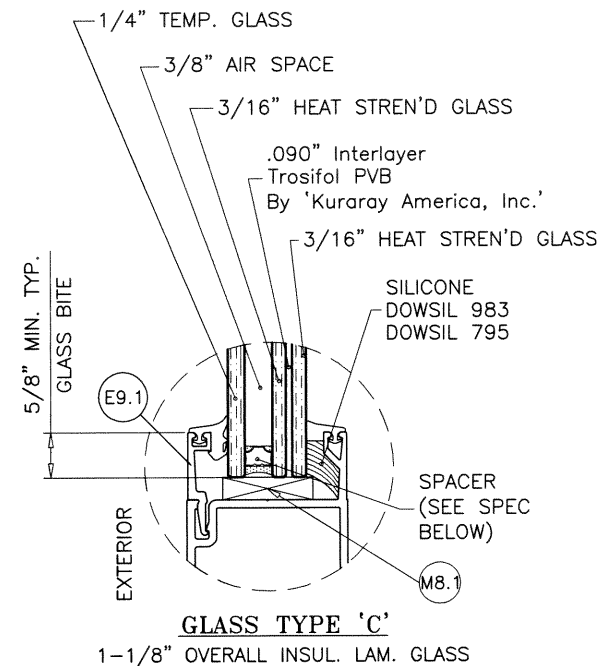
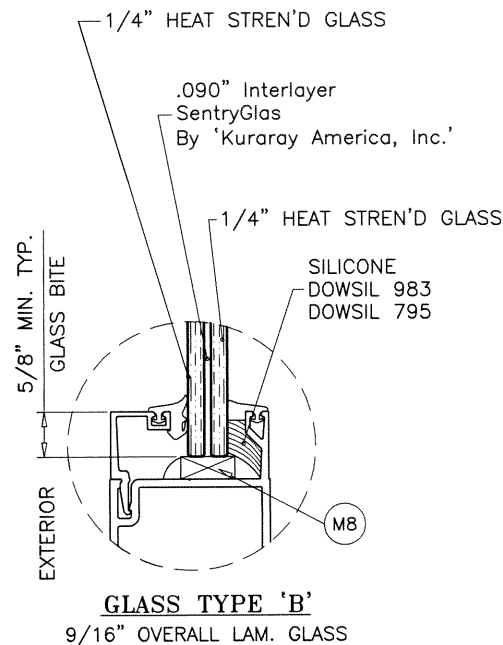
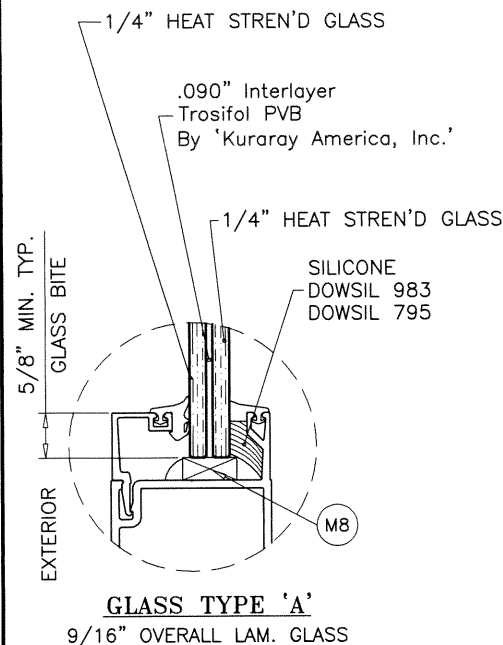
FL #27001



SERIES-M500 ALUM OUTSWING FRENCH DOOR (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 18-47F-MG

revisions:	no	date	by	description
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dr. by:	TARIQ	chk. by:		
drawing no.	18-47F			
sheet	5 of 18			

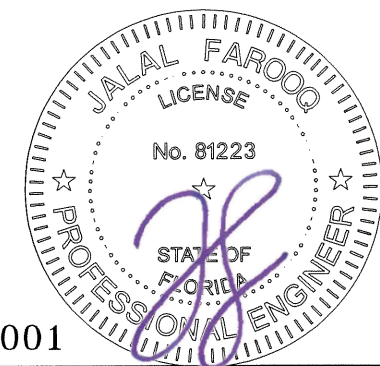


GLAZING OPTIONS

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

Sealed: 1/5/2021

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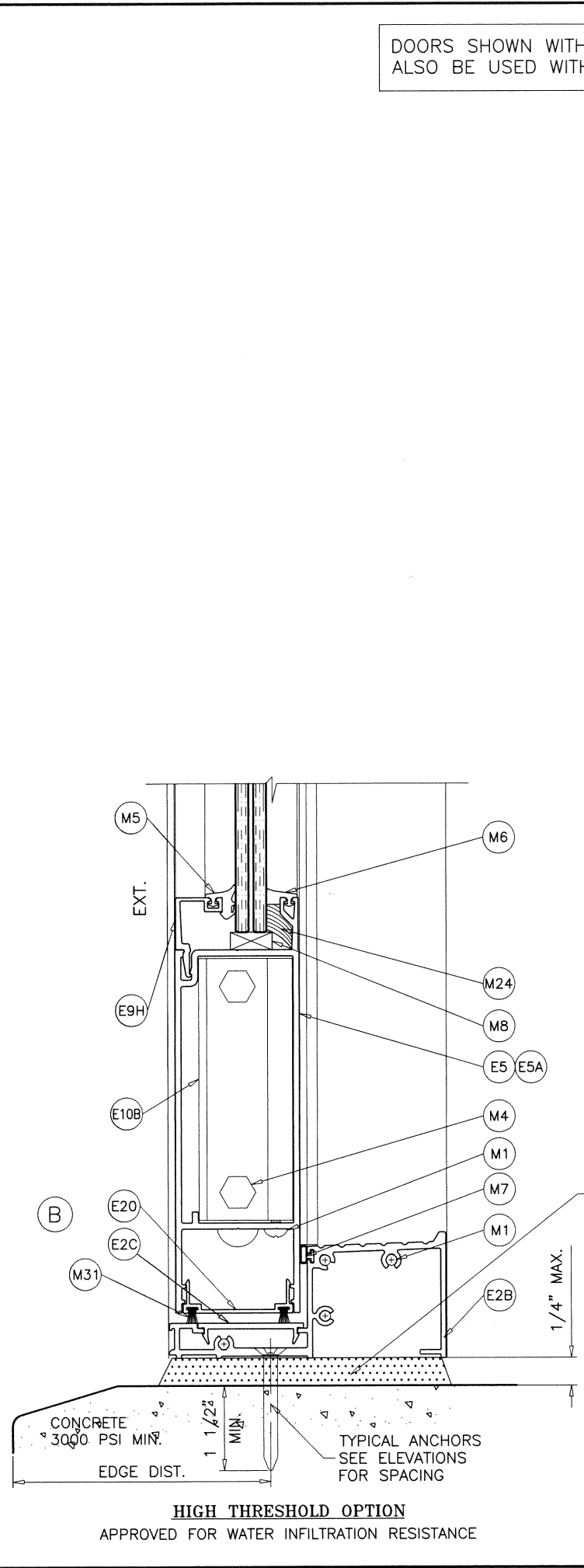
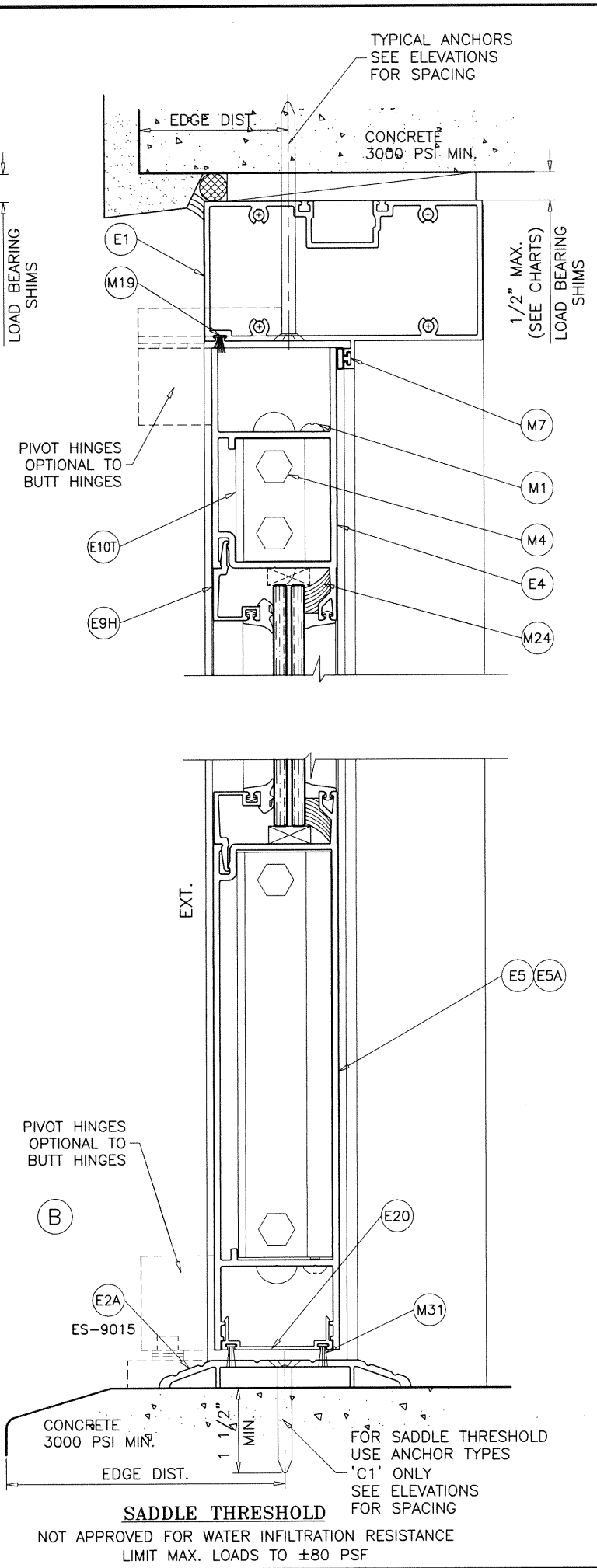
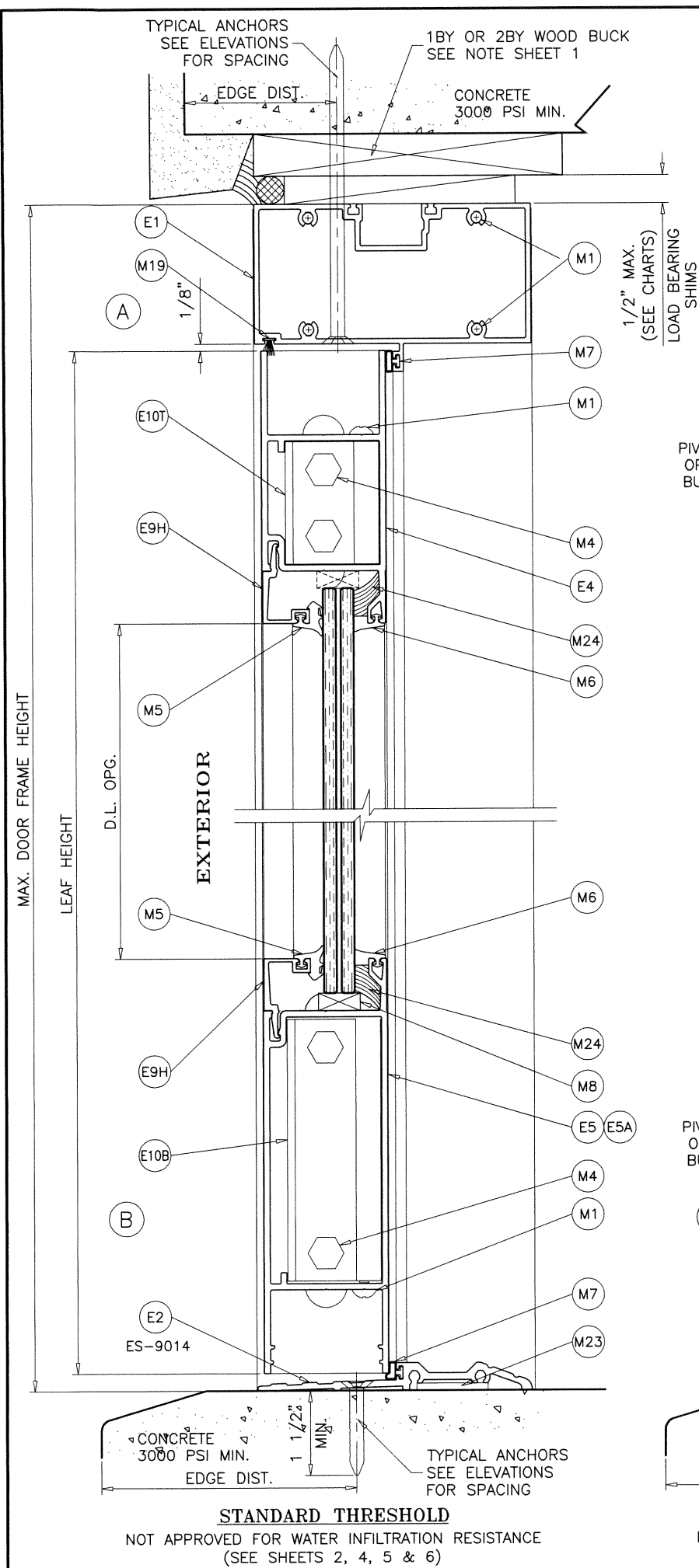
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scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.
18-47F
 sheet 7 of 18



DOORS SHOWN WITH SERIES-9500 FRAMES CAN ALSO BE USED WITH SERIES-MG5000 FRAMES.

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



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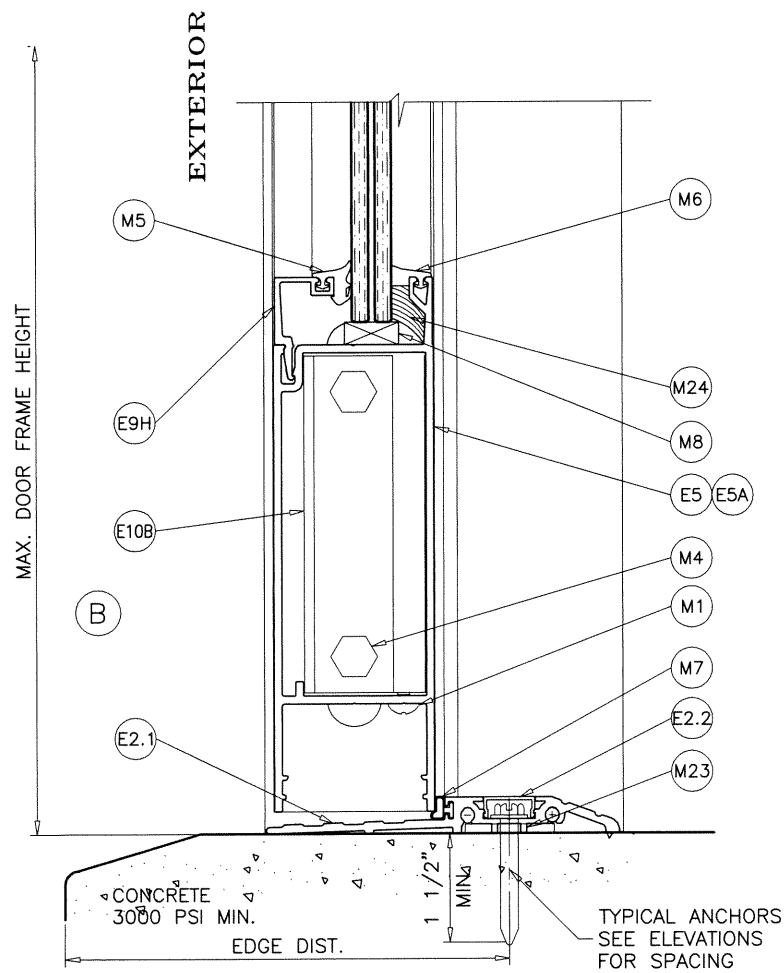
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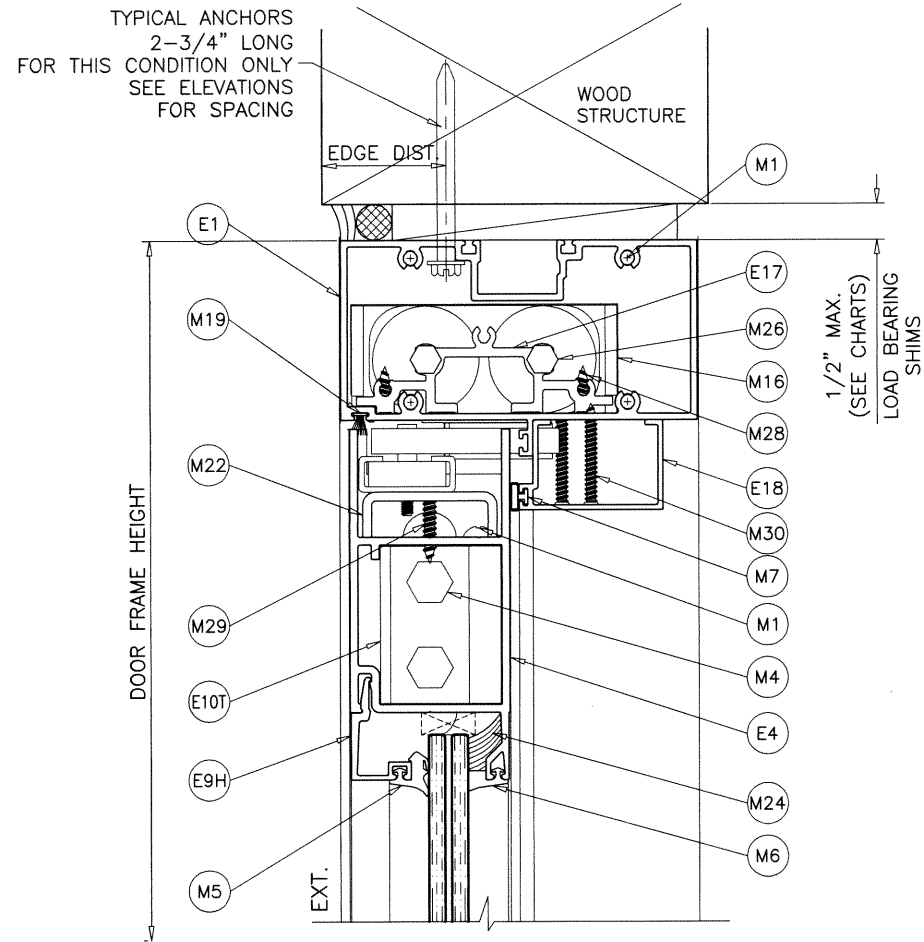
18-47F

sheet 8 of 18

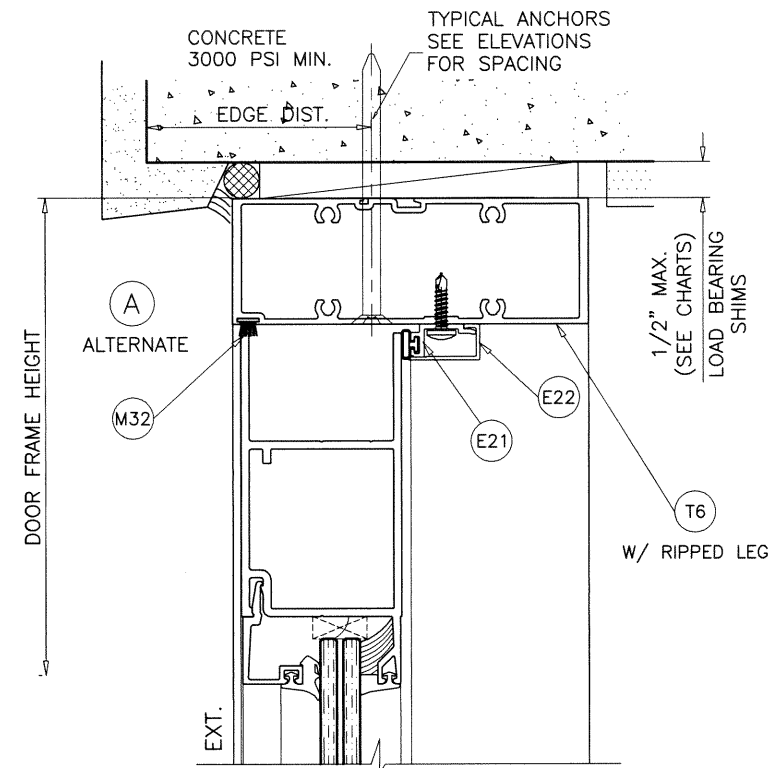


STANDARD THRESHOLD

NOT APPROVED FOR WATER INFILTRATION RESISTANCE

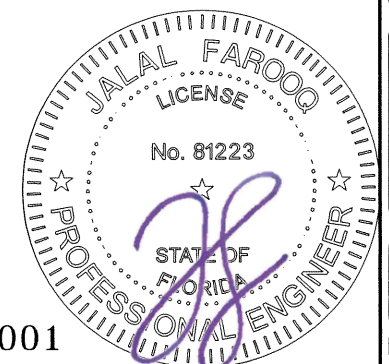


DOOR CLOSERS OPTIONAL



DOOR HEAD
SERIES-MG5000 FRAME OPTION

DOORS SHOWN WITH SERIES-9500 FRAMES CAN ALSO BE USED WITH SERIES-MG5000 FRAMES.



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sheet 9 of 18

1X OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY 'MR. GLASS'
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 GROUT FILLED BLOCKS (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" 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 GROUT FILLED BLOCKS (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" 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. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
INTO METAL STRUCTURE = 1/2" MIN.

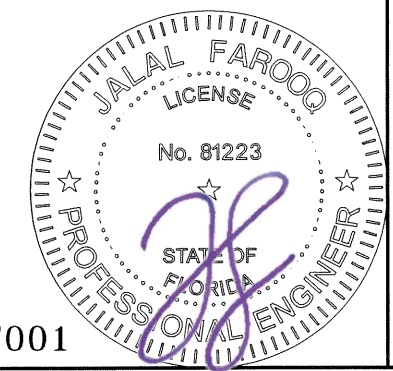
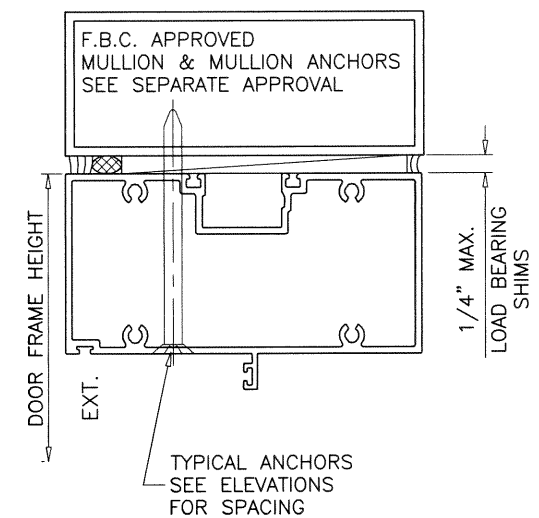
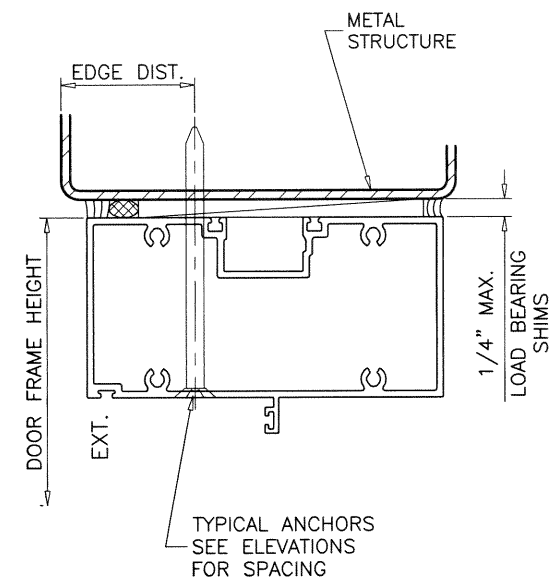
TYPE 'A1' - 1/4" X 1-3/4" ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE (FOR STD. AND HIGH THRESHOLD)
WITH 1-1/2" MIN. EMBED INTO CONCRETE

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 #27001

a f c
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COMP-ANL\18-47F-MG

SERIES-MG500 ALUM OUTSWING FRENCH DOOR (L.M.I.)
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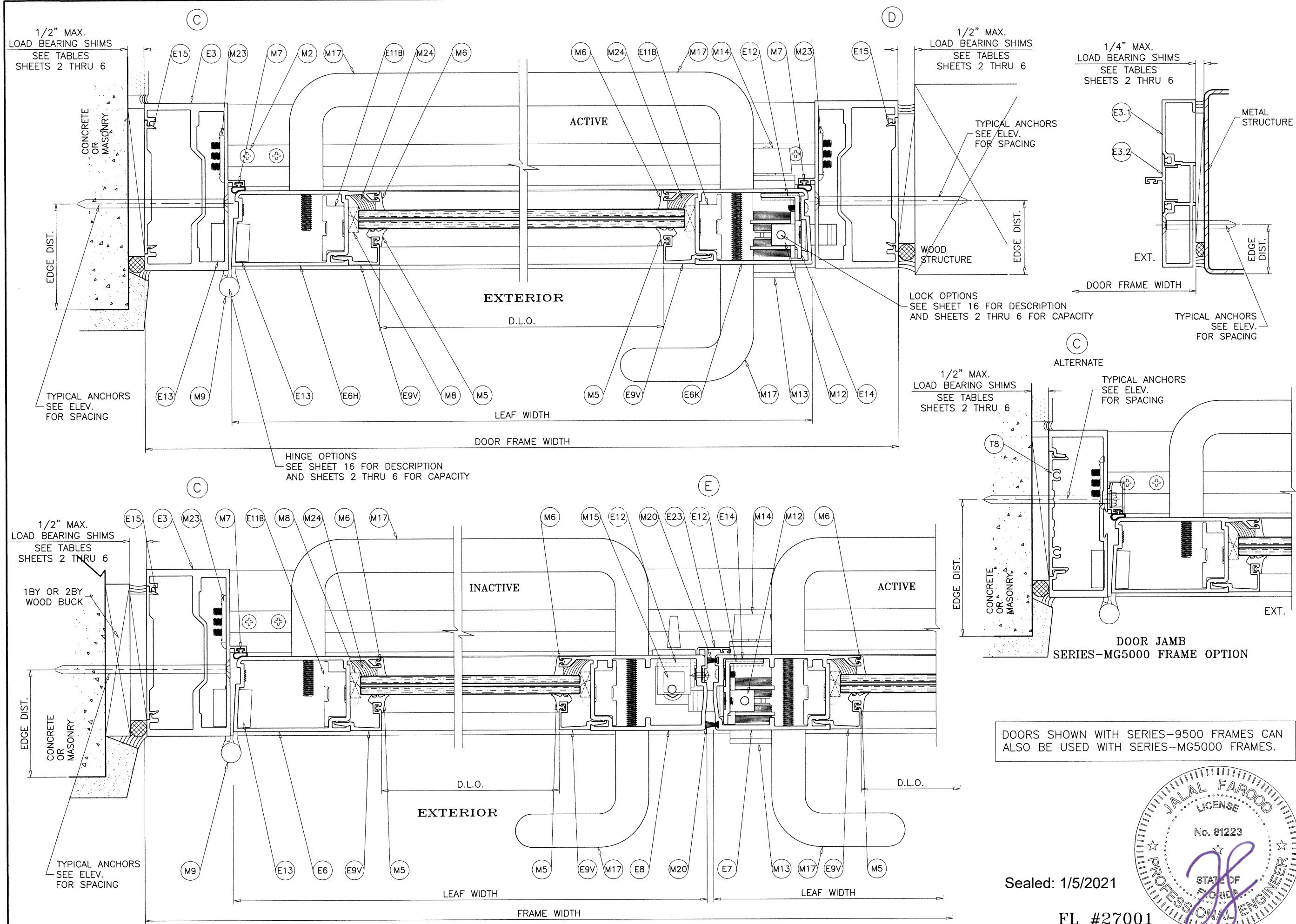
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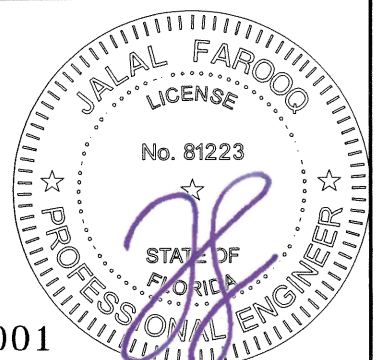
dr. by: TARIQ

chk. by:

drawing no.
18-47F
sheet 10 of 18



DOORS SHOWN WITH SERIES-9500 FRAMES CAN ALSO BE USED WITH SERIES-MG5000 FRAMES.



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SERIES-MG500 ALUM OUTSWING FRENCH DOOR (L.M.I.)

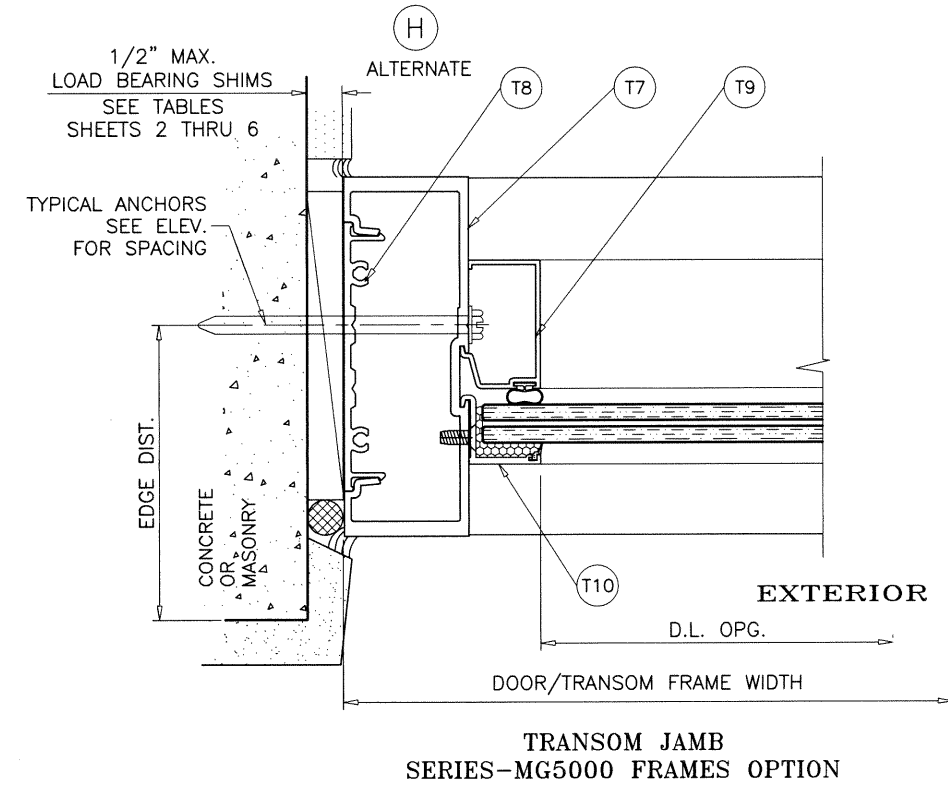
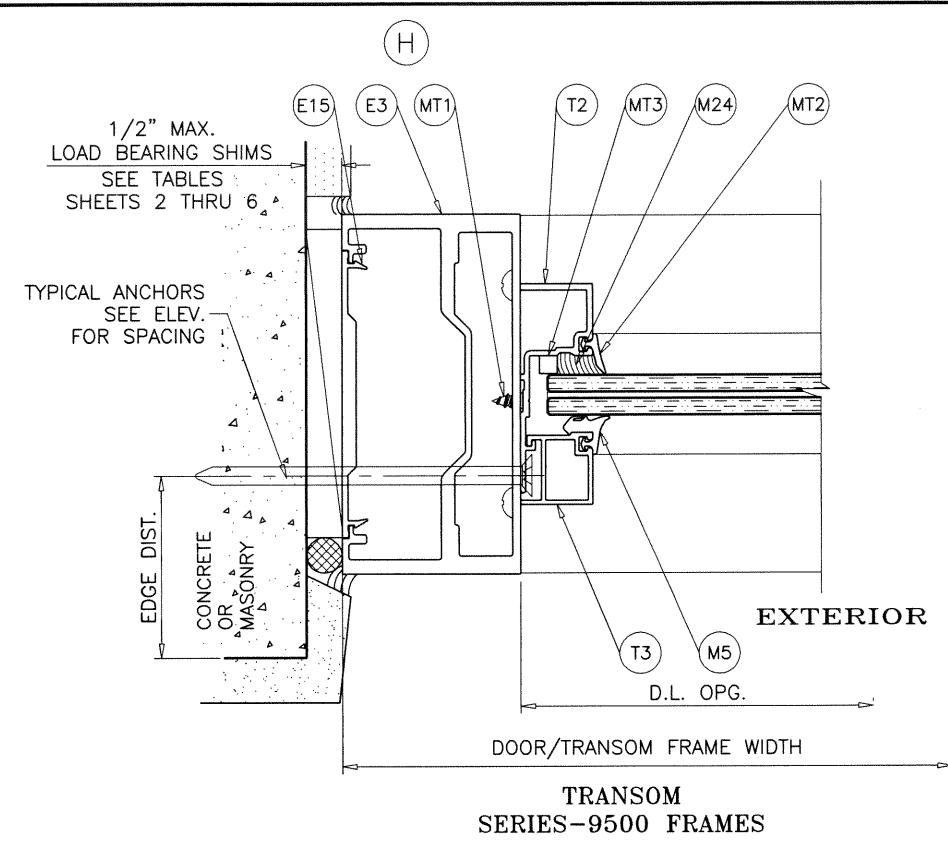
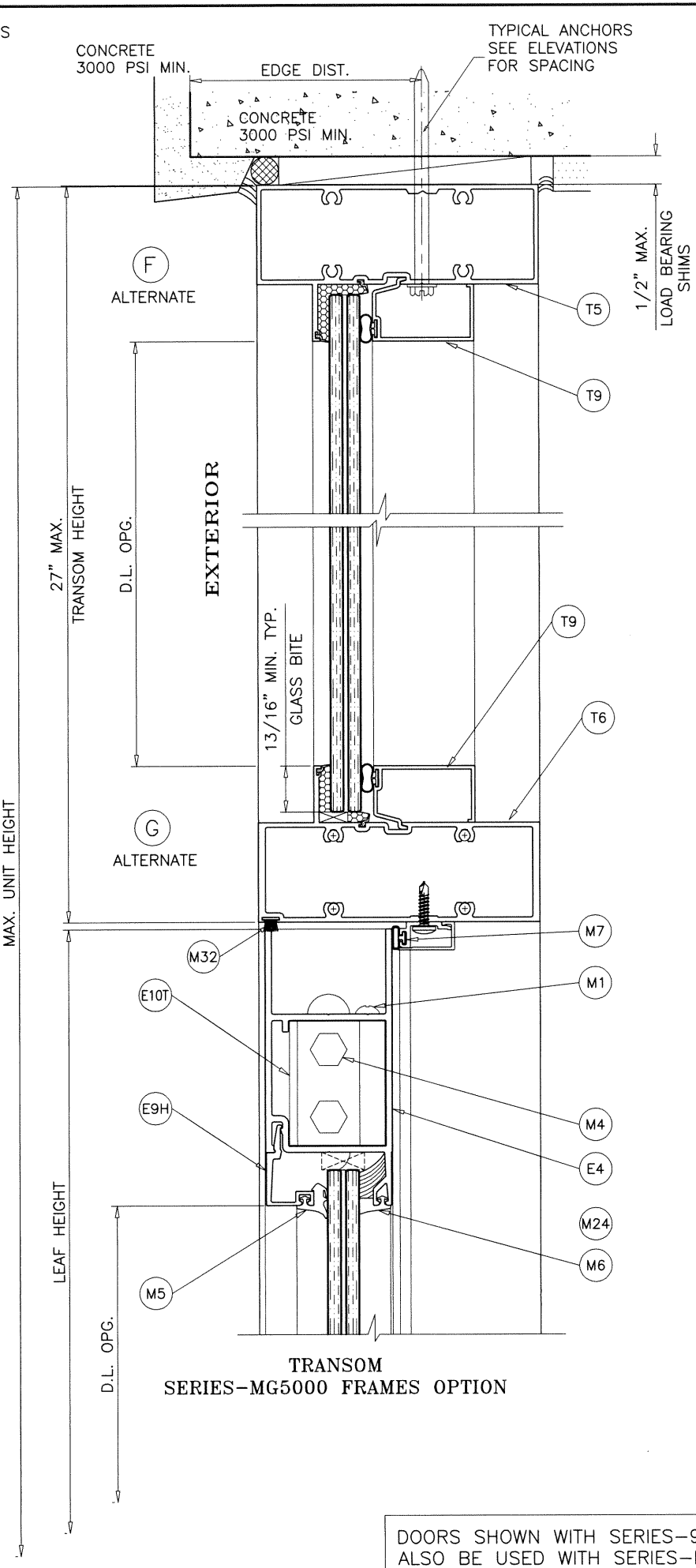
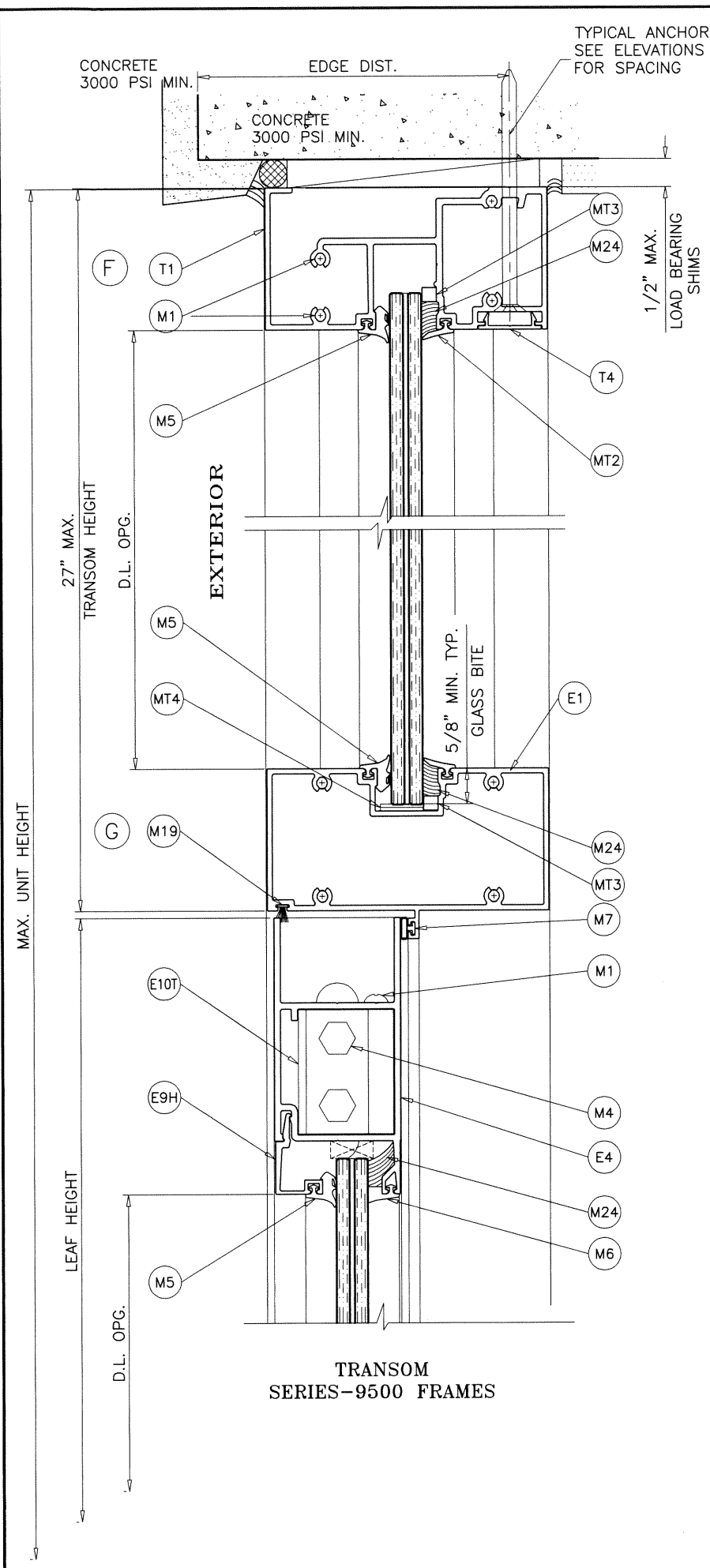
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
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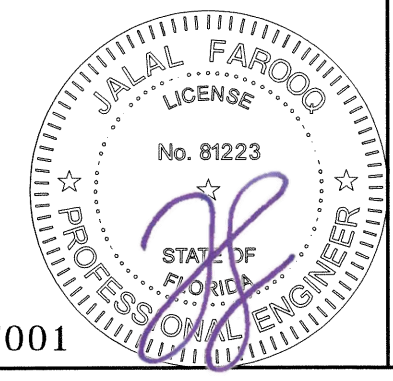
drawing no.
18-47F
sheet 11 of 18



DOORS SHOWN WITH SERIES-9500 FRAMES CAN ALSO BE USED WITH SERIES-MG5000 FRAMES.

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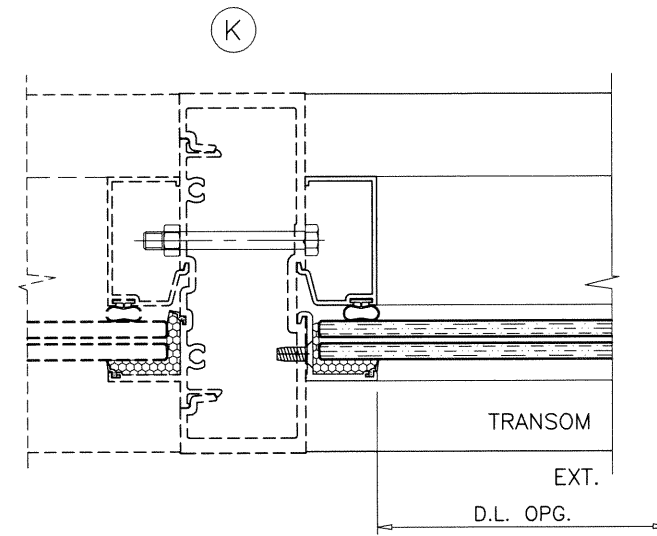
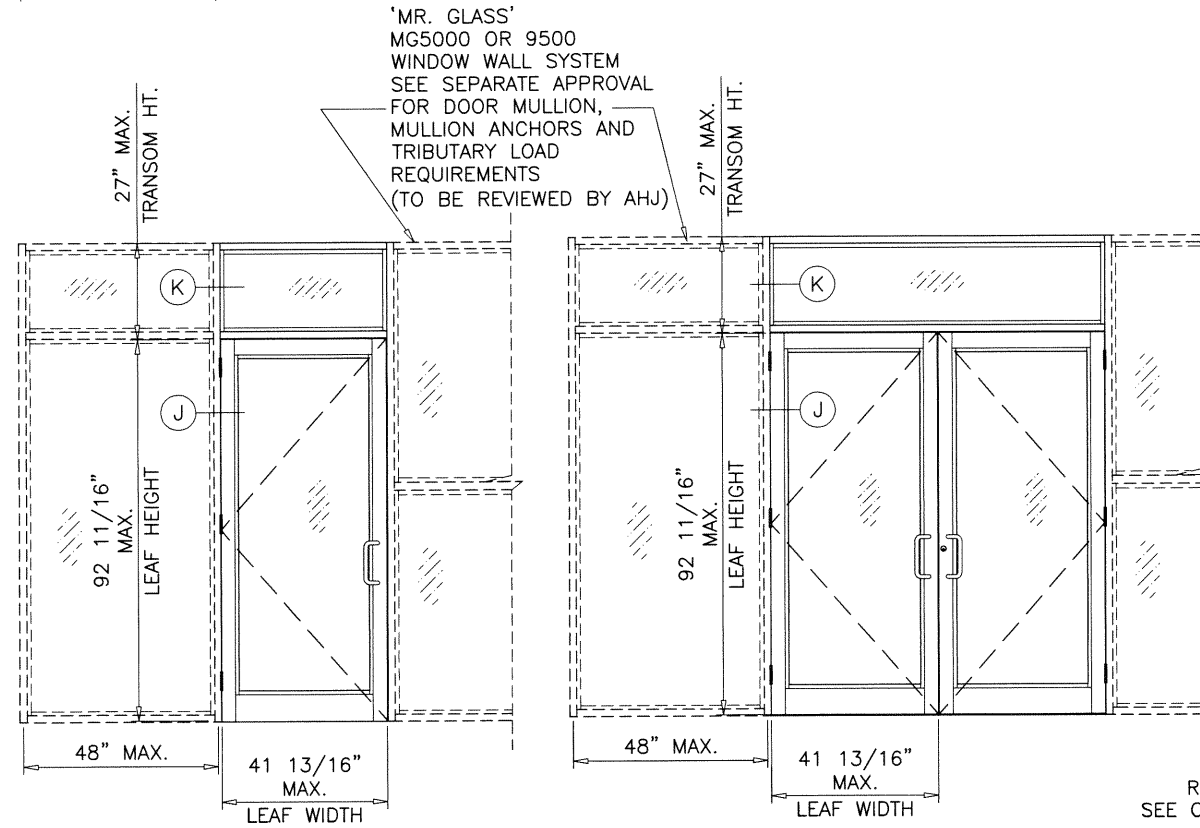
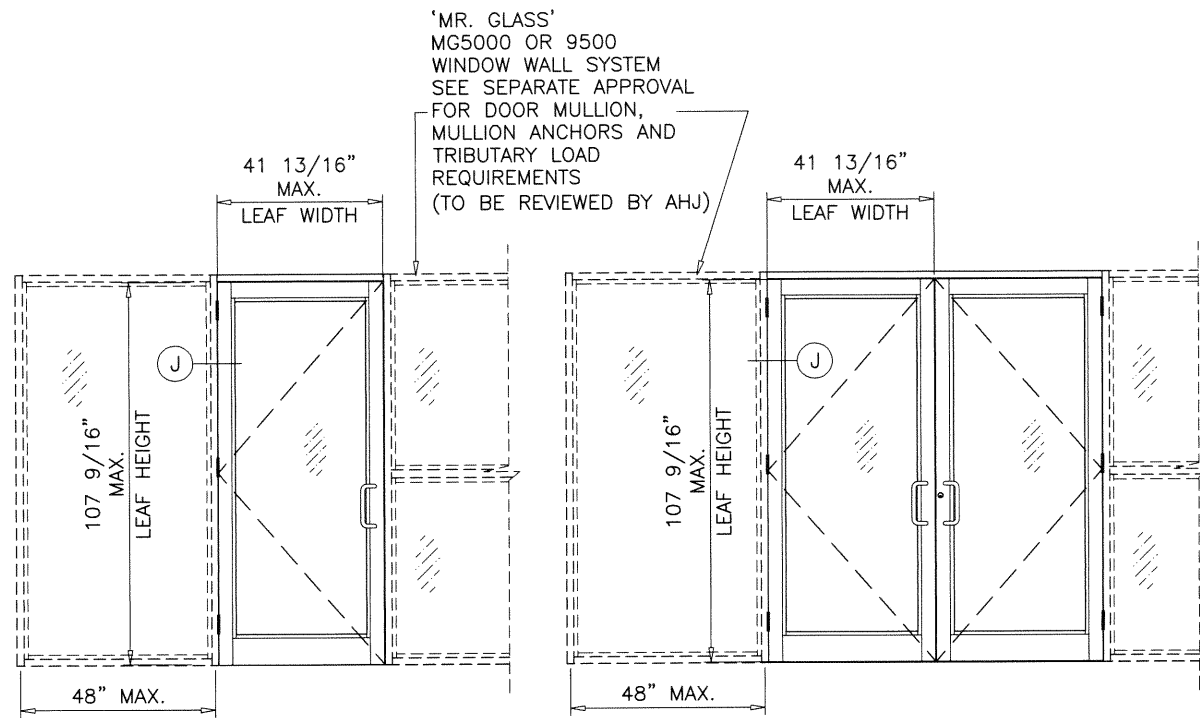
SERIES-MG500 ALUM OUTSWING FRENCH DOOR (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
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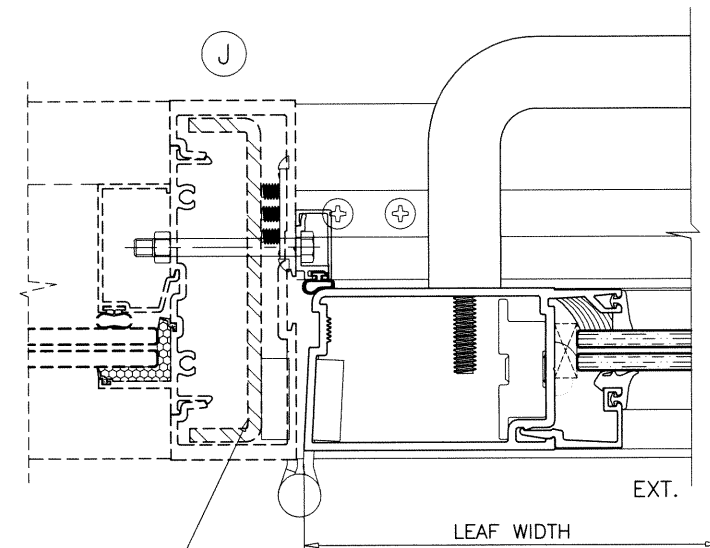
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drawing no.
18-47F
sheet 12 of 18

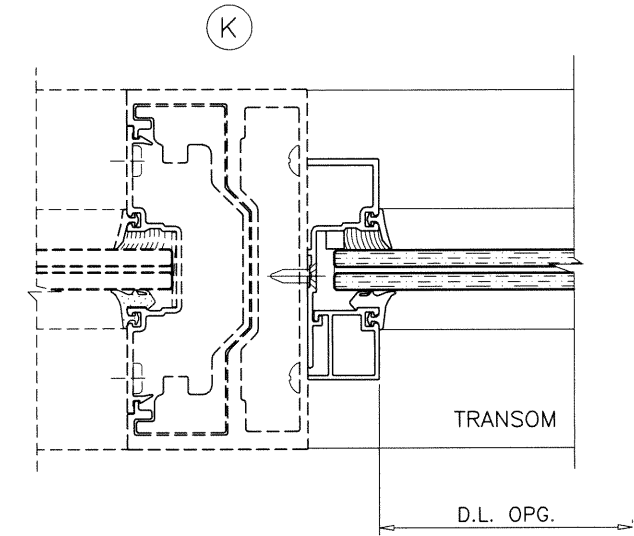


F.B.C. APPROVED
 SERIES MG5000 WINDOW WALL SYSTEM BY "MR. GLASS"
 UNDER SEPARATE APPROVAL.

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

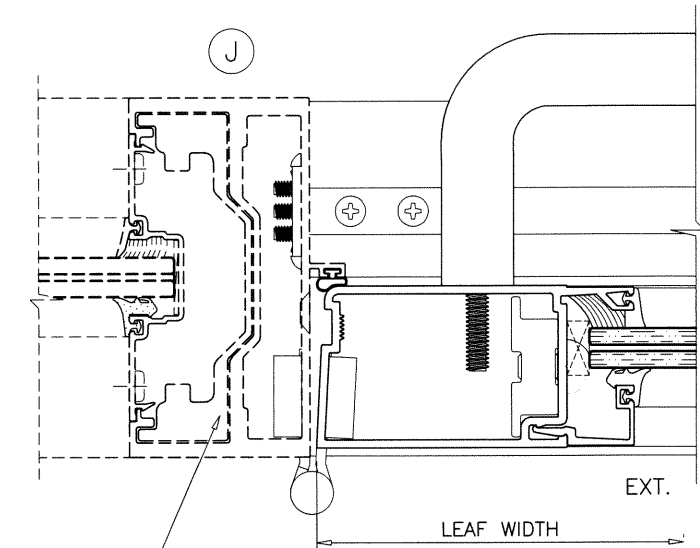


REINFORCING WILL VARY
 SEE CURRENT APPROVAL OF
 SERIES MG5000
 WINDOW WALL SYSTEM
 FOR DETAILS



F.B.C. APPROVED
 SERIES 9500 WINDOW WALL SYSTEM BY "MR. GLASS"
 UNDER SEPARATE APPROVAL.

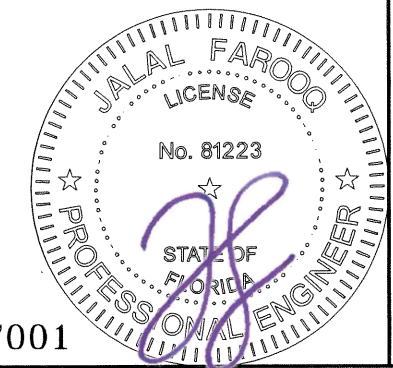
LOWER VALUES FROM DOOR CAPACITY CHARTS OR
 WINDOW WALL APPROVAL WILL APPLY TO ENTIRE SYSTEM.



REINFORCING WILL VARY
 SEE CURRENT APPROVAL OF
 E.S. SERIES 9500
 WINDOW WALL SYSTEM
 FOR DETAILS

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FL #27001



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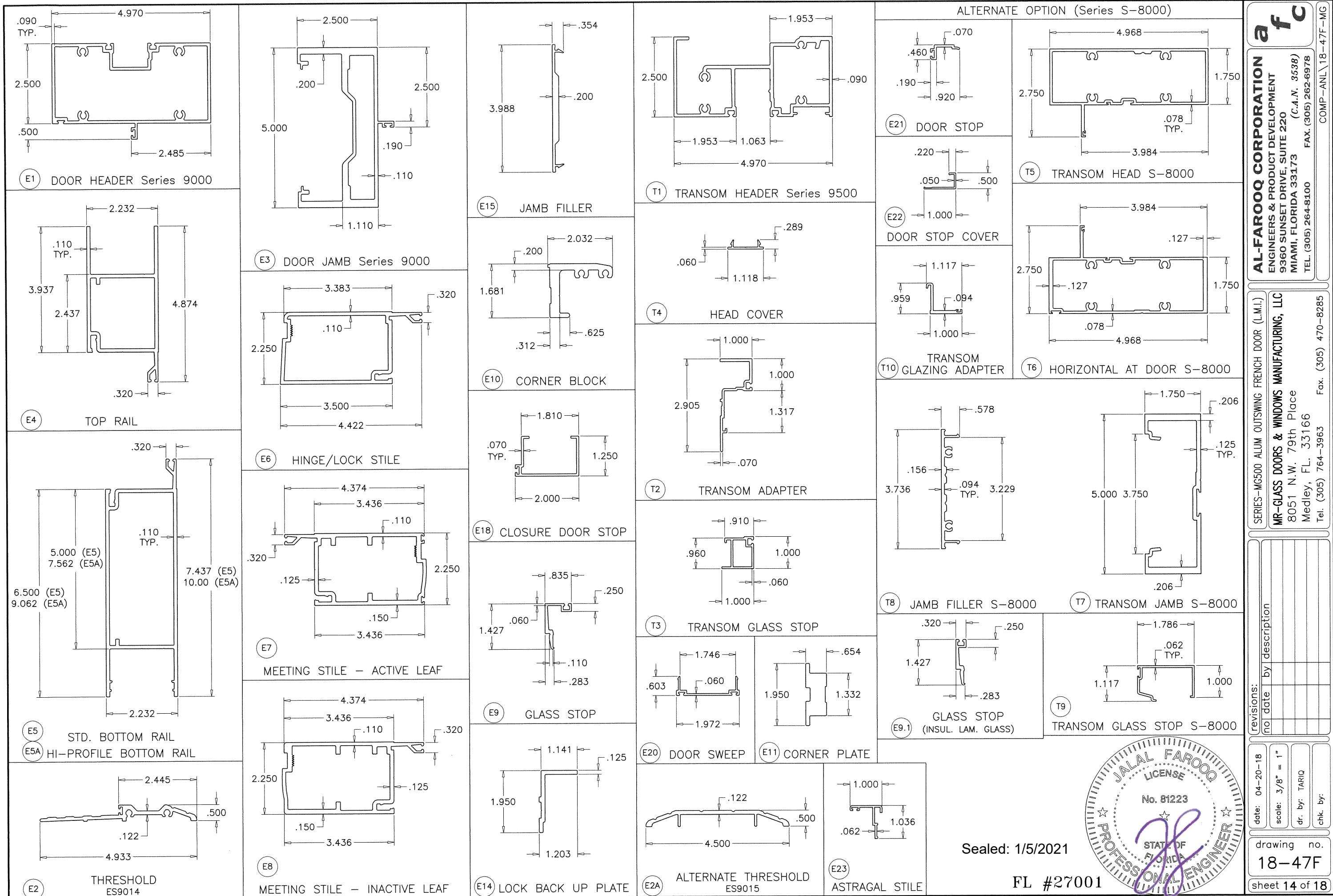
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FL #27001

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Revisions:

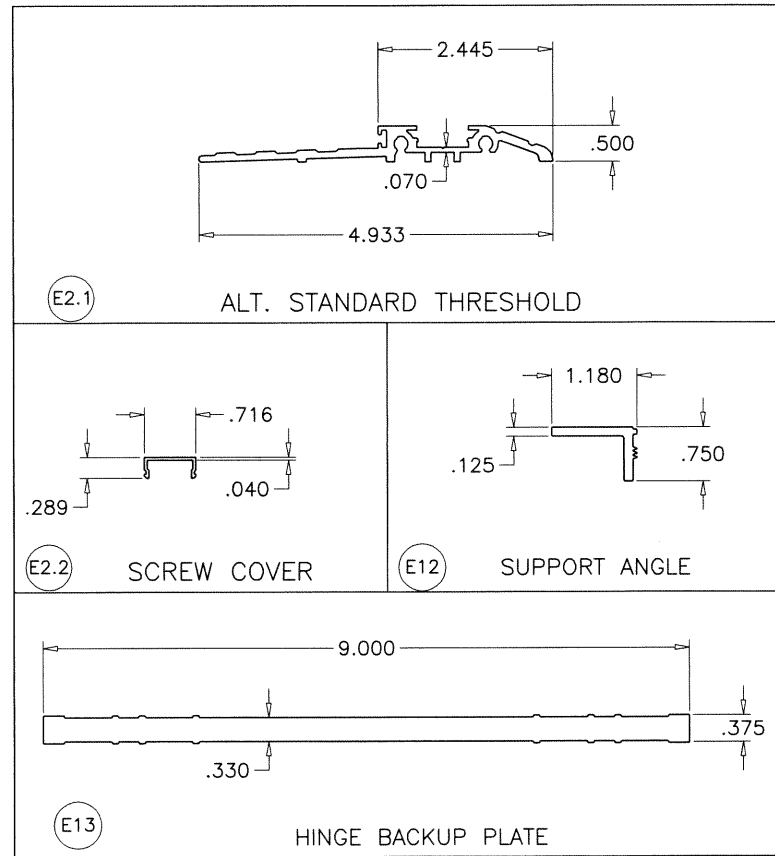
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sheet 14 of 18

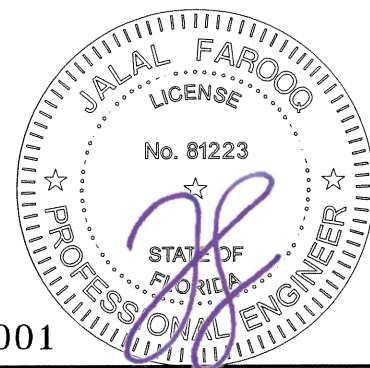
ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-9012	1	DOOR HEADER	6061-T6	-
E2	ES-9014	1	STANDARD THRESHOLD	6063-T6	-
E2.1	ES-9000-30	1	ALT. STANDARD THRESHOLD	6061-T6	-
E2.2	ES-6011	1	SCREW COVER	6063-T6	-
E2A	ES-9015	1	SADDLE THRESHOLD	6063-T6	-
E2B	ES-9026	1	HIGH THRESHOLD	6063-T6	-
E2C	ES-9027	1	THRESHOLD COVER	6063-T5	-
E3	ES-9013	2	DOOR JAMB	6063-T6	-
E3.1	ES-7530-213	2	NARROW DOOR JAMB	6063-T6	-
E3.2	ES-7530-214	2	NARROW JAMB DOOR STOP	6063-T6	-
E4	ES-9001	2	TOP RAIL	6063-T5	-
E5	ES-9002	2	STD. BOTTOM RAIL	6063-T6	-
E5A	ES-9000-031	2	HI-PROFILE BOTTOM RAIL	6063-T6	-
E6H	ES-9003	2	HINGE/LOCK STILE	6063-T5	-
E7	ES-9006	1	MEETING STILE - ACTIVE LEAF	6063-T5	-
E8	ES-9007	1	MEETING STILE - INACTIVE LEAF	6063-T5	-
E9H	ES-9004	4	HORIZONTAL GLASS STOP	6063-T5	-
E9V	ES-9004	4	VERTICAL GLASS STOP	6063-T5	-
E9.1	ES-9029	4	GLASS STOP (INSUL. LAM. GLASS)	6063-T5	-
E10T	ES-9008	4	CORNER BLOCK -TOP	6063-T5	-
E10B	ES-9008	4	CORNER BLOCK - BOTTOM	6063-T5	-
E11T	ES-9009	4	CORNER PLATE - TOP	6063-T5	-
E11B	ES-9009	4	CORNER PLATE - BOTTOM	6063-T5	-
E12	ES-9010	4	SUPPORT ANGLE	6063-T5	3/4" X 1" X 1/8" X 9" LONG
E13	ES-9011	AS RQD.	HINGE BACKUP PLATE REINFORCEMENT	6063-T5	1-1/4" X 9" X 3/8" THK.
E13A	12-24 X 1/2"	4/ PLATE	HINGE BACKUP PLATE FASTENERS	ST. STEEL	FH MACHINE SCREWS
E14	ES-9020	1	LOCK BACKUP PLATE REINFORCEMENT	6063-T5	10" LONG
E14A	8-32 X 1/2"	3/ PLATE	LOCK PLATE FASTENERS	ST. STEEL	PH MACHINE SCREWS
E15	ES-9016	AS RQD.	JAMB FILLER	6063-T6	-
E16	ES-9017	AS RQD.	REINFORCEMENT	6063-T6	-
E17	ES-9021	1/ CLOSER	CLOSER SUPPORT CLIPS (PAIR)	6063-T5	-
E18	ES-9022	1	CLOSER DOOR STOP	6063-T5	-
E19	ES-9023	1/ CLOSER	CLOSER COVER PLATE	6063-T5	-
E20	ES-9005	-	DOOR SWEEP	-	-
E21	ES-9051	-	DOOR STOP	-	-
E22	ES-9052	-	DOOR STOP COVER	-	-
E23	ES-9060	-	ASTRAGAL STILE	6063-T5	SECURED WITH #8 X 1/2" SMS AT 12" O.C.
M1	-	28	#12 x 1" P.H. ST/ST SMS	-	-
M2	-	AS RQD.	#12 - 24 x 1" F.H. ST/ST MS	-	-
M3	-	18	#8 - 32 x 1/2" P.H. ST/ST MS	-	-
M4	-	16	3/8" - 16 x 1" HEX. BOLT	-	-
M5	ES-9000-G01	AS RQD.	WEDGE GASKET	EPDM	DUROMETER 70±5 SHORE A
M6	ES-9000-G02	AS RQD.	SPACER GASKET	EPDM	DUROMETER 70±5 SHORE A
M7	ES-9000-G03	AS RQD.	BULB VINYL, BASE-POLYPROPYLENE, BULB-TPE	-	ULTRAFAB, DUROMETER 73±5 SHORE A
M8	ES-9000-B01	AS REQD.	SETTING BLOCKS (LAM. GLASS) AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M8.1	ES-9000-B02A	AS REQD.	SETTING BLOCKS (INSUL. LAM. GLASS) AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M9	-	AS RQD.	HINGE 4 1/2" x 4"	-	-
M9A	-	AS RQD.	OFFSET PIVOT HINGE	ALUMINUM	-
M9B	60AT 2-TLG	AS REQD.	RESIDENTIAL HINGE	-	DR. HAHN
M12	-	1	3 POINT LOCK	-	-
M13	-	1	KEY CYLINDER	-	-
M14	-	1	THUMBTURN	-	-
M15	-	1	2 POINT LOCK	-	-
M16	-	1/ LEAF	DOOR CLOSURE	-	-
M17	-	2	PUSH - PULL	-	-
M19	W13273NK	AS RQD.	PILE W'STRIPPING - HEADER	WOOL	-
M20	W23451NK	AS RQD.	PILE - MTG STILES	WOOL	-
M22	-	1/ CLOSER	CHANNEL SPACER 5/8" X 1-7/8"	-	-
M23	-	2	THRESHOLD CLIP	-	-
M24	-	AS RQD.	STRUCTURAL SILICONE	-	-
M25	-	AS RQD.	SILICONE	-	-

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
M26	-	2/ CLOSER	1/4 - 20 x 2" HEX. BOLT	-	-
M27	-	3/ CLOSER	#10 x 1" P.H. ST/ST SMS	-	-
M28	-	6/ CLOSER	#10 x 1" F.H. ST/ST SMS	-	-
M29	-	3/ CLOSER	#10 x 1" F.H. ST/ST SMS	-	-
M30	-	AS RQD.	#10 x 1 1/2" F.H. ST/ST SMS, AT 23" O.C.	ST. STEEL	-
M31	W13351NK	AS RQD.	PILE - DOOR SWEEP	WOOL	-
M32	W13275NK	AS RQD.	PILE - HEADER	WOOL	-
T1	ES-9506	-	TRANSOM HEADER Series 9500	6063-T6	-
T2	ES-9019	-	TRANSOM ADAPTER	6063-T5	-
T3	ES-9018	-	TRANSOM GLASS STOP	6063-T5	-
T4	ES-9502	-	HEAD COVER	6063-T5	-
MT1	-	-	#10 x 1/2" F.H. ST/ST SMS	-	-
MT2	-	-	TRIM GASKET	SILICONE	-
MT3	-	-	INTERIOR SPACER 1/4" x 1/4"	FOAM	-
MT4	-	AS REQD.	SETTING BLOCKS (1/16" x 3/4") AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
T5	ES-8005	AS REQD.	TRANSOM HEAD S-8000	6005-T6	-
T6	ES-8013	AS REQD.	HORIZONTAL AT DOOR S-8000	6061-T6	-
T7	ES-8012	AS REQD.	TRANSOM JAMB S-8000	6005-T6	-
T8	ES-8003	AS REQD.	JAMB FILLER S-8000	6005-T5	-
T9	ES-8006	AS REQD.	TRANSOM GLASS STOP S-8000	6063-T5	-
T10	ES-8014	AS REQD.	TRANSOM GLAZING ADAPTER	6063-T6	-



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chk. by:

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18-47F

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LOCKS: (See Tables On Sheets 2 Thru 6 For Load Capacities)

OPTION #1: LIMIT MAX. LOADS TO ±80.0 PSF

ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY
'JACKSON PANIC SYSTEM' #1285 LOCATED AT 41"
FROM SILL AT EACH LEAF.

FASTENED WITH

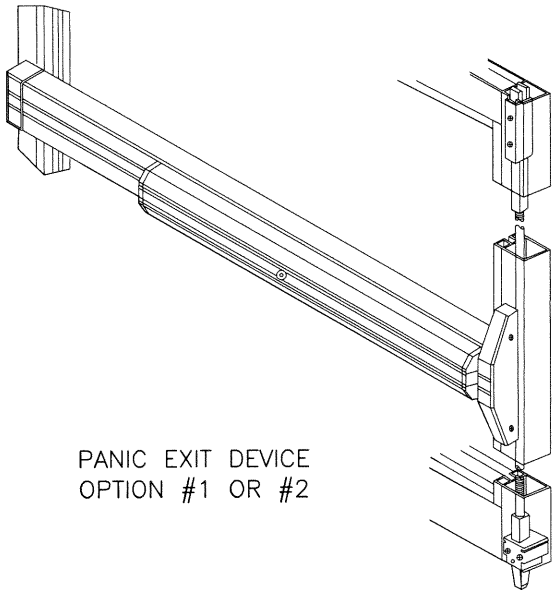
- (1) #14 X 1" HH SELF DRILLING SCREW AT ONE END AND
- (2) #12-24 X 1/2" OH MACHINE SCREWS AT OTHER END

OR

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY
'ADAMS RITE' 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



PANIC EXIT DEVICE
OPTION #1 OR #2

OPTION #2: LIMIT MAX. LOADS TO +80.0, -90.0 PSF

ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY
'JACKSON PANIC SYSTEM' #2086 LOCATED AT 41"
FROM SILL AT EACH LEAF.

FASTENED WITH

- (1) #14 X 1" HH SELF DRILLING SCREW AT ONE END AND
- (2) #12-24 X 1/2" OH MACHINE SCREWS AT OTHER END

OR

CONCEALED VERTICAL ROD PANIC EXIT DEVICE BY
'DOR-O-MATIC' LOCATED AT 40" FROM SILL
AT EACH LEAF.

FASTENED WITH

- (2) #12-24 X 1/2" FH MACHINE SCREWS AT ONE END

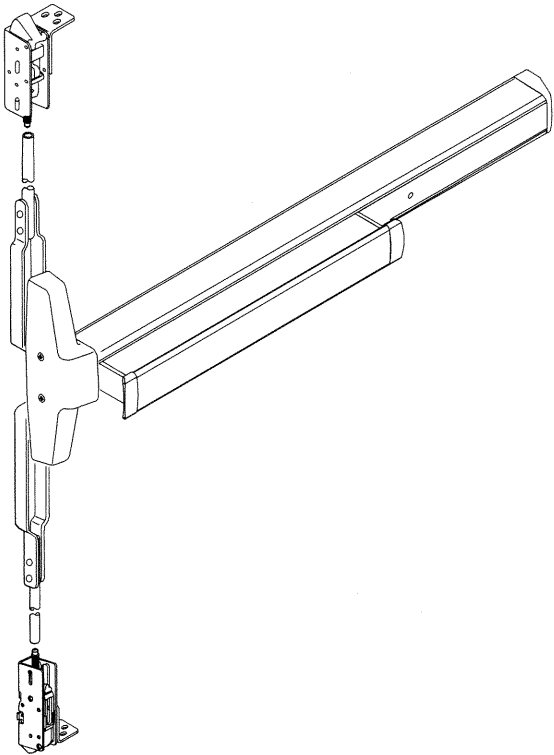
OPTION #2.1: LIMIT MAX. LOADS TO ±90.0 PSF

ACTIVE & INACTIVE LEAF:

CONCEALED VERTICAL ROD PANIC EXIT DEVICE SERIES 3347
BY 'VON DUPRIN' LOCATED AT 40" FROM SILL
AT EACH LEAF.

FASTENED WITH

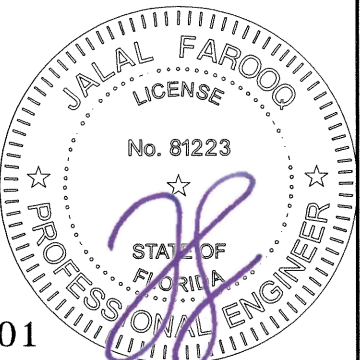
- (2) #10-32 X 3/4" FH MACHINE SCREWS AT ONE END AND
- (2) #10-24 X 1/2" FH MACHINE SCREWS AT OTHER END



CONCEALED BOLTS ENGAGEMENT INTO FRAMES = 1/2" MIN. TYP.

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COMP-ANL 18-47F-MG

LOCKS: (See Tables On Sheets 2 Thru 6 For Load Capacities)

OPTION #3:

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:

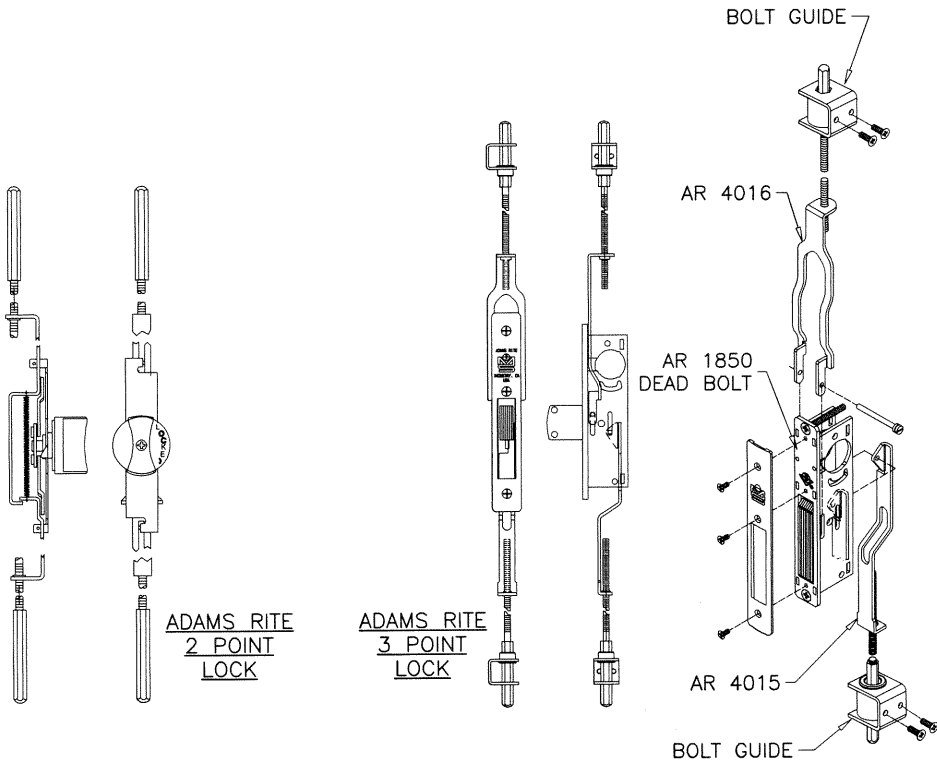
MANUALLY OPERATED TWO POINT LOCK SYSTEM 1880/81 BY 'ADAMS RITE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE AND A THUMB TURN ON THE INTERIOR, LOCATED AT 40" FROM BOTTOM OF PANEL FASTENED WITH
(2) #8-32 X 1/4" PH MACHINE SCREWS

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



CONCEALED BOLTS ENGAGEMENT INTO FRAMES = 1/2" MIN. TYP.



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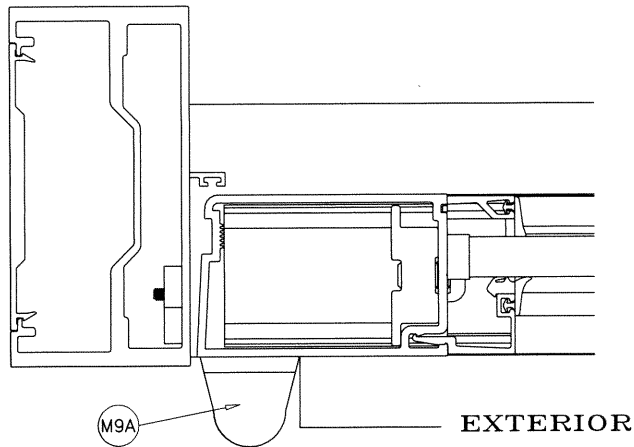
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sheet 16.1 of 18

HINGES: (See Tables On Sheets 2 Thru 6 For Load Capacities)

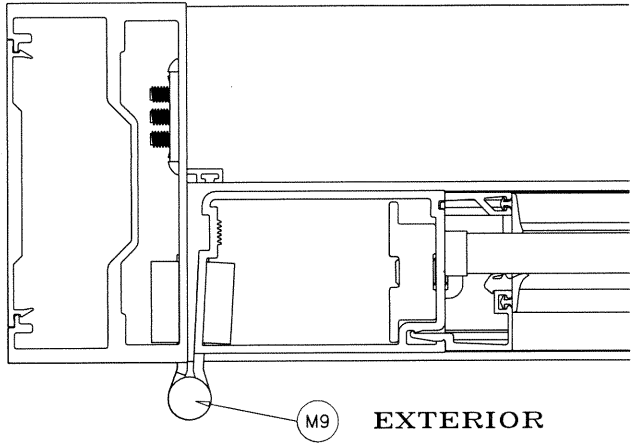
OPTION #1:

OFFSET PIVOT HINGES
ALUMINUM AT TOP AND BOTTOM
FASTENED TO FRAME AND THRESHOLD WITH
#10-24 X 1/2" FH THREAD CUTTING SCREWS
(2) AT THRESHOLD, (2) AT JAMB BOTTOM
(3) AT FRAME HEAD
HEAVY DUTY BRASS OR BRONZE AT MIDSPAN
FASTENED TO FRAME AND LEAF WITH
(4) 1/4-20 X 5/8" MS



OPTION #2:

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

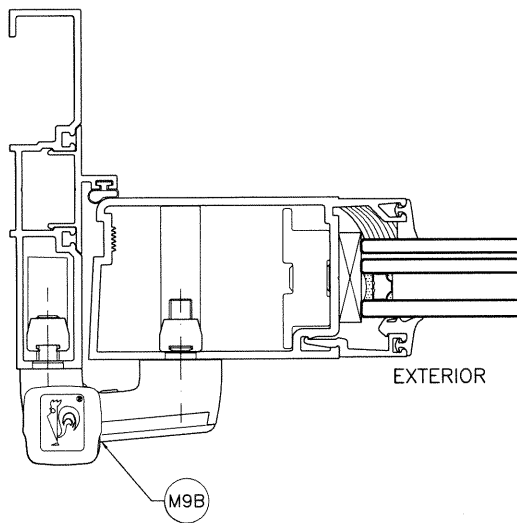


OPTION #2.1:

4 X 4-3/4" ST. STEEL BALL BEARING BUTT HINGES
(4) PER LEAF
(1) AT 9-5/8" FROM TOP TO CL OF HINGE
(1) AT 10-5/16" FROM BOTTOM TO CL OF HINGE
(2) INTERMEDIATE HINGES EQUALLY SPACED FROM
TOP AND BOTTOM HINGE
FASTENED TO DOOR FRAME AND LEAF STILE WITH
(4) #12-24 X 1/2" FH MACHINE SCREWS PER HASP

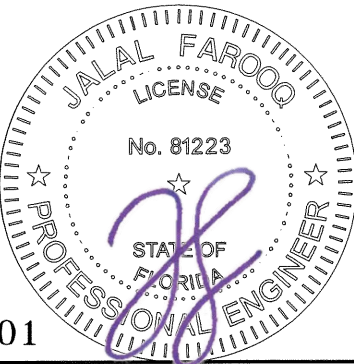
OPTION #3: LIMIT MAX. LOADS TO ±90.0 PSF

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



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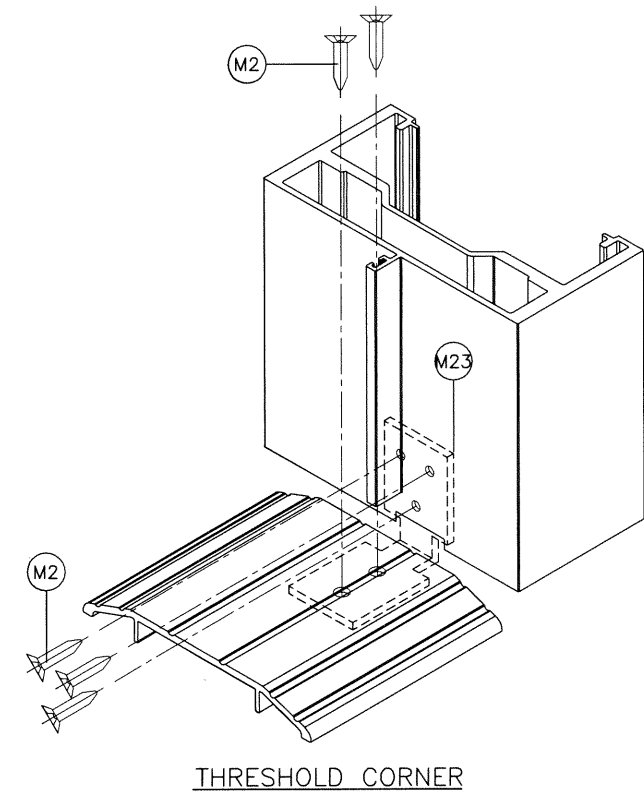
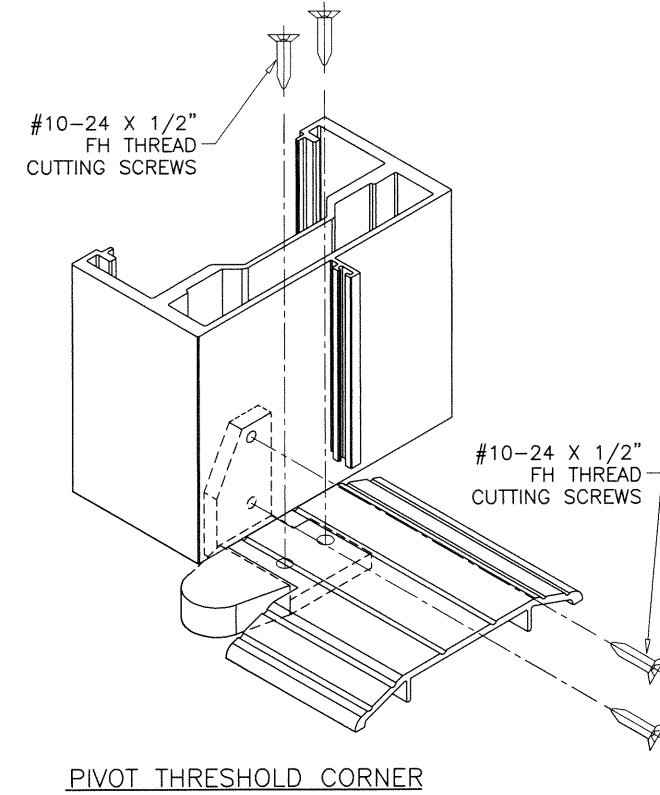
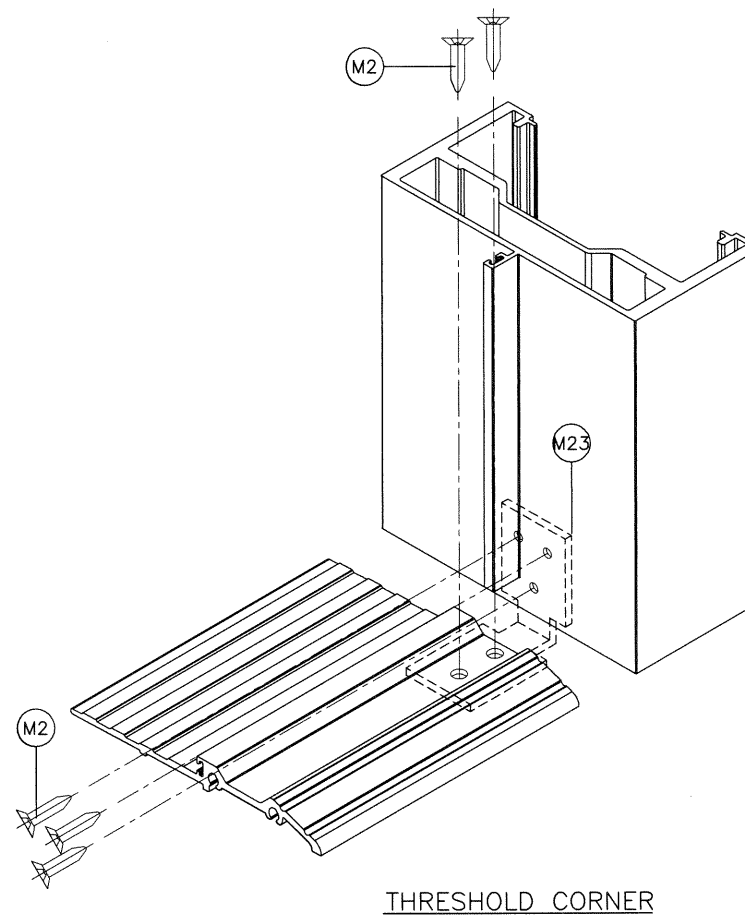
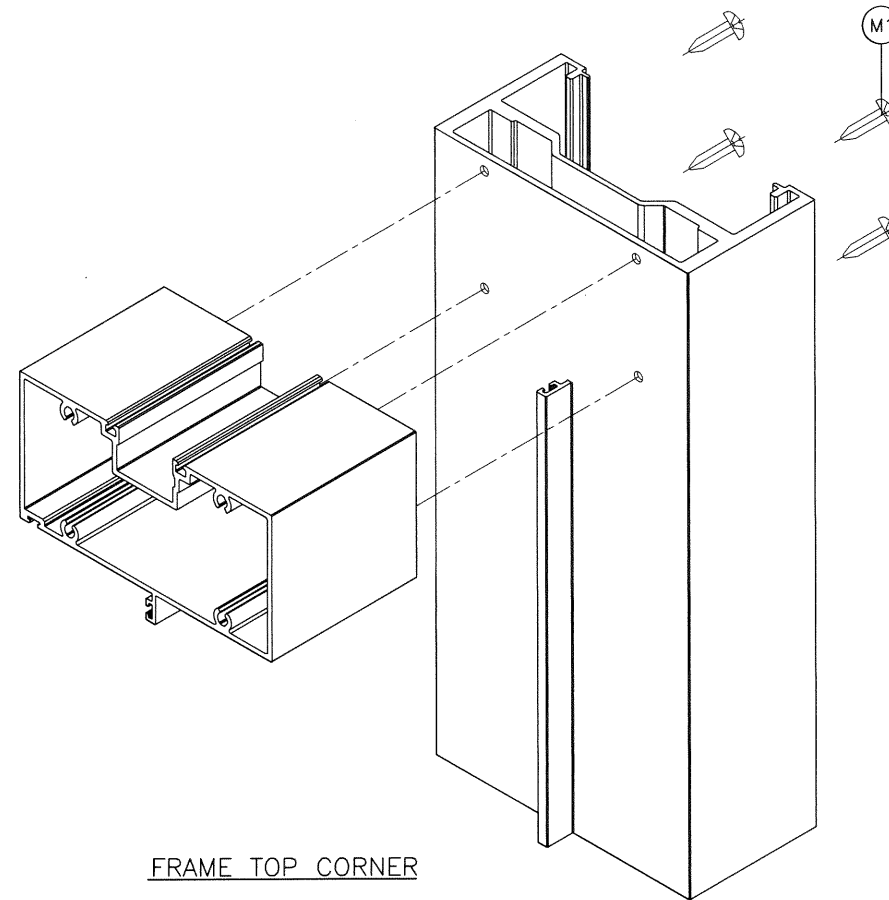
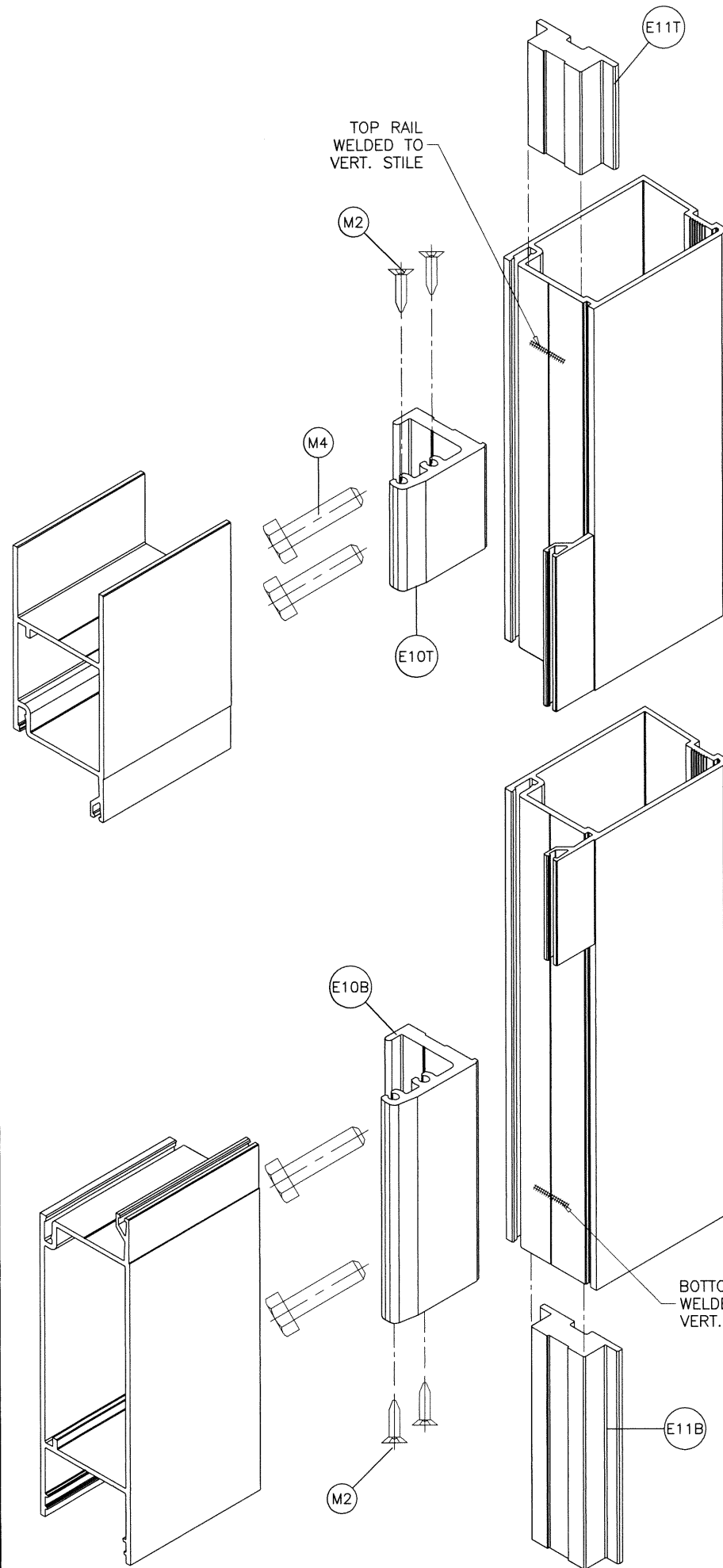
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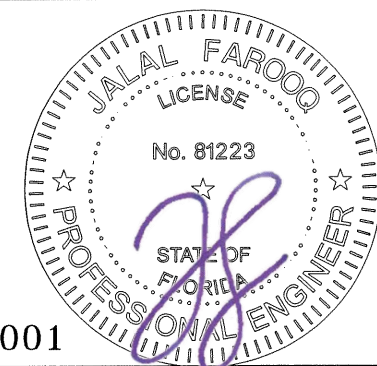
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18-47F
sheet 16.2 of 18



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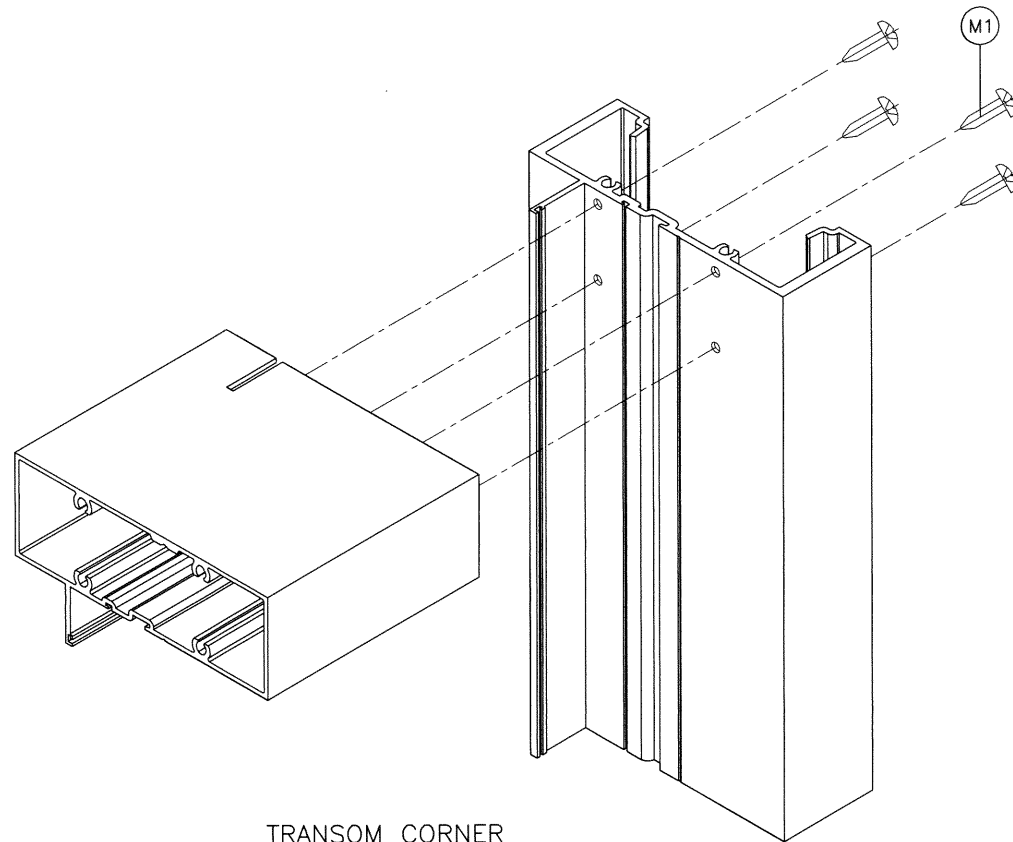
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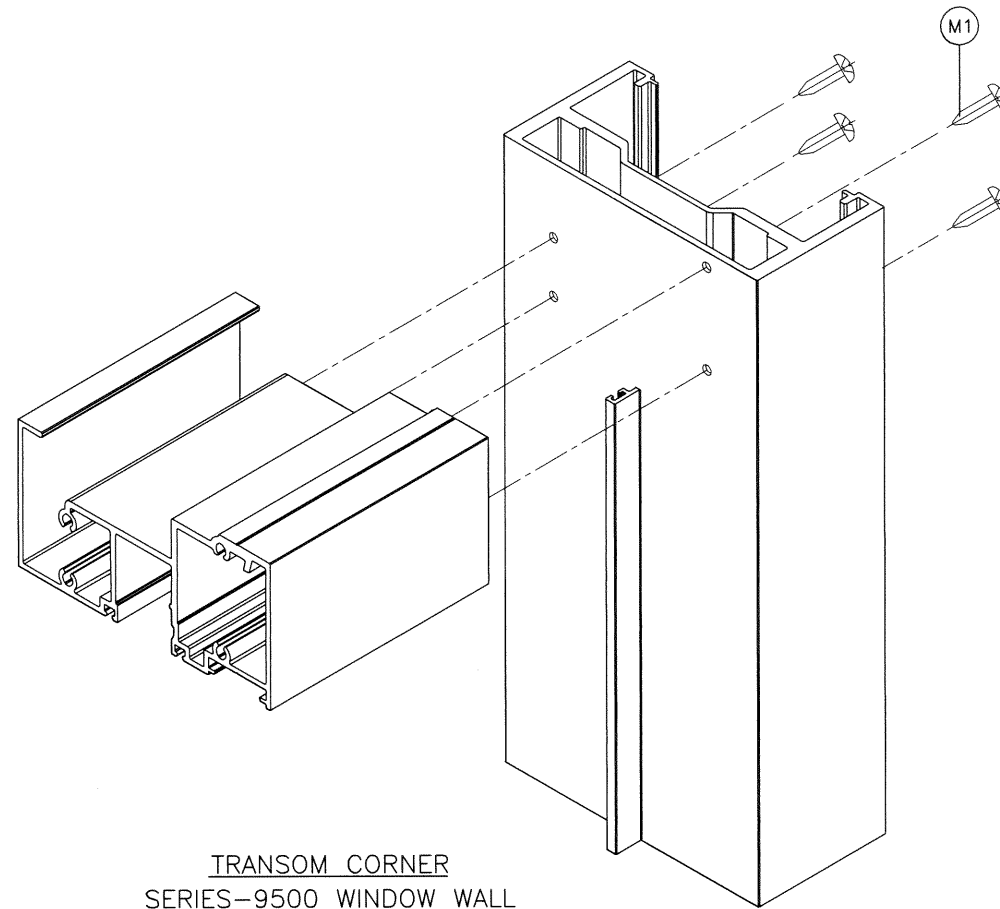
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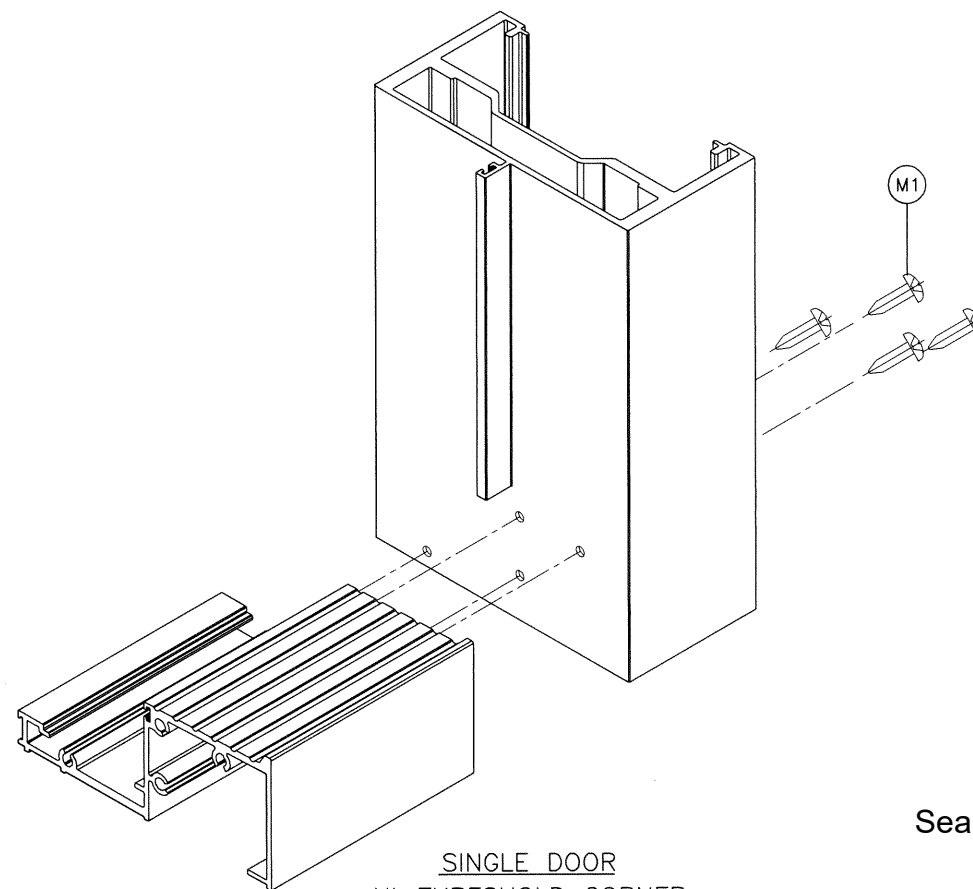
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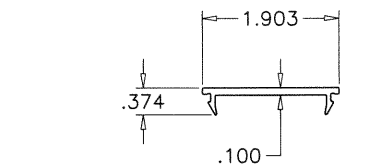
TRANSOM CORNER
SERIES-MG5000 WINDOW WALL



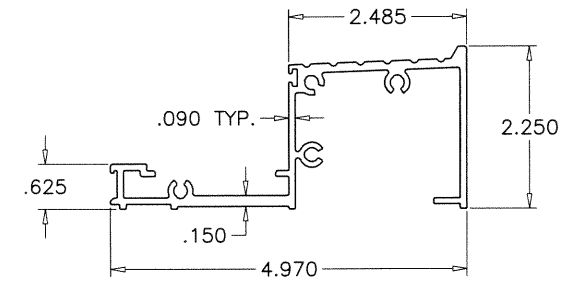
TRANSOM CORNER
SERIES-9500 WINDOW WALL



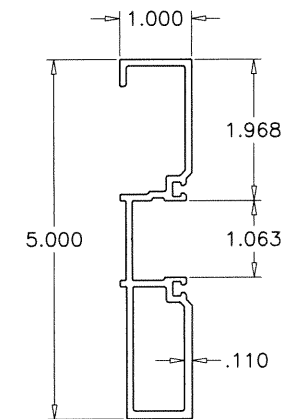
SINGLE DOOR
HI-THRESHOLD CORNER



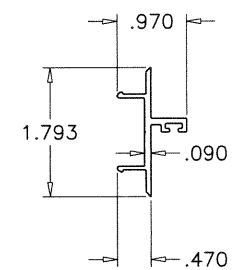
(E2C) THRESHOLD COVER
ES9027



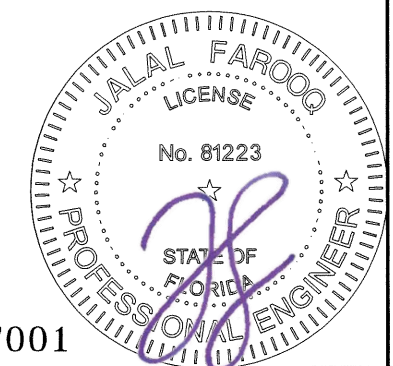
(E2B) HIGH THRESHOLD
ES9026



(E3.1) NARROW DOOR JAMB



(E3.2) NARROW JAMB
DOOR STOP



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