

STEP 2 SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY

TO VERIFY MIN. & MAX. GAP DIMENSIONS.

OF DOORS AND REQUIRED HEAD/SILL ANCHOR QUANTITY.

FOR DOORS WITH FREE STANDING JAMBS SEE SHEET 6

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

IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.

LABELING TO COMPLY WITH SECTION 1709.9.2.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION

WIND TO THE PROPERTY OF THE PR SEALED: 3/18/2021

STATE OF

FLORIDA.

drawing

21 - 16F

sheet 1 of 10

no.

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

- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF

THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT

SPECIFIC DRAWINGS FOR REVIEW.

. / . 12 . 3.5							
1/4" MA	X. SHIM	S					$\frac{3}{}$
			DESIGN L	OAD CAPACITY	- PSF		l L
		ANCHORS	TYPE 'A'	ANCHORS 'B'	ANCHORS	TYPE 'C'	
		2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	2 ANCHORS AT JAMBS	3 ANCHORS AT JAMBS	
AVERAGE PANEL WIDTH	DOOR FRAME HEIGHT	4 ANCHORS AT STILE ENDS	6 ANCHORS AT STILE ENDS	4 ANCHORS AT STILE ENDS	4 ANCHORS AT STILE ENDS	6 ANCHORS AT STILE ENDS	A\ PANI
FANLL WIDTH	I ILIOITI I						I I I ON

3/8	B" 1	MAX.	SHIMS

	DESIGN LOAD CAPACITY - PSF									DESIGN LOAD CAPACITY - PSF														
I	ANG	ANCHORS TYPE 'A' ANCHORS 'B' ANCHORS TYPE 'C'					ANCHORS TYPE 'A'					ANCHORS TYPE 'B'			3'	ANCHORS TYPE 'C'			,,					
			3 ANCHORS 2 ANCHORS AT JAMBS AT JAMBS		2 ANCHORS AT JAMBS		3 ANCHORS AT JAMBS				2 ANO AT J		3 ANO AT J		2 ANO AT J	CHORS AMBS	3 ANO AT J		2 ANO AT JA		3 ANC AT J			
E	4 ANO AT STIL		6 ANO AT STIL		4 ANO AT STIL		4 ANO AT STIL		6 ANO AT STIL		AVERAGE PANEL WIDTH	DOOR FRAME HEIGHT	4 ANO AT STIL	CHORS E ENDS	6 ANO AT STIL		4 ANO AT STIL		6 ANO AT STIL		4 ANC AT STIL		6 ANC AT STIL	
ſ	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	INCHES	INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
I	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	30		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0
	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	36		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0
	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	42	82	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0
	65.0	78.1	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	48		65.0	78.1	65.0	80.0	65.0	80.0	65.0	80.0	65.0	72.2	65.0	80.0
	65.0	69.5	65.0	80.0	65.0	80.0	65.0	77.2	65.0	80.0	54		65.0	69.5	65.0	80.0	65.0	71.6	65.0	80.0	64.2	64.2	65.0	80.0
	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	30		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0
	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	36		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0
	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	42	84	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0
	65.0	76.3	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	48		65.0	76.3	65.0	80.0	65.0	78.6	65.0	80.0	65.0	70.5	65.0	80.0
	65.0	67.8	65.0	80.0	65.0	80.0	65.0	75.4	65.0	80.0	54		65.0	67.8	65.0	80.0	65.0	69.9	65.0	80.0	62.6	62.6	65.0	80.0
	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	30		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0
	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	36	90	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0
	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	42	30	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	75.2	65.0	80.0
	65.0	71.2	65.0	80.0	65.0	80.0	65.0	79.2	65.0	80.0	48		65.0	71.2	65.0	80.0	65.0	73.4	65.0	80.0	65.0	65.8	65.0	80.0
	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	30		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0
	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	36	96	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0
	65.0	76.3	65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	42	30	65.0	76.3	65.0	80.0	65.0	78.6	65.0	80.0	65.0	70.5	65.0	80.0
ſ	65.0	66.8	65.0	80.0	65.0	80.0	65.0	74.2	65.0	80.0	48		65.0	66.8	65.0	80.0	65.0	68.8	65.0	80.0	61.7	61.7	65.0	80.0

1/2" MAX. SHIMS

INCHES

30

36

42

48

54

30

36

42

48

54

30

36

42

48

30

36

42

INCHES

82

3/4" MAX. SHIMS

		D	ESIGN	LOAD C.	APACITY	– PSF	יק		·		
		ANCH	ORS TY	PE 'A'	& 'B'	AN	CHORS	TYPE 'C	?'		
			CHORS AMBS	ı	CHORS AMBS	1	CHORS AMBS		CHORS AMBS		
AVERAGE PANEL WIDTH	DOOR FRAME HEIGHT	4 ANCHORS AT STILE ENDS		6 ANCHORS AT STILE ENDS		4 ANCHORS AT STILE ENDS			CHORS E ENDS	AVERAGE PANEL WID	
INCHES	INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	INCHES	
30		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	30	
36		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	36	
42	82	65.0	78.2	65.0	80.0	65.0	70.5	65.0	80.0	42	
48		65.0	68.4	65.0	80.0	61.7	61.7	65.0	80.0	48	
54		60.8	60.8	65.0	80.0	54.8	54.8	65.0	80.0	54	
30		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	30	
36		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	36	
42	84	65.0	76.3	65.0	80.0	65.0	68.8	65.0	80.0	42	
48		65.0	66.8	65.0	80.0	60.2	60.2	65.0	80.0	48	
54		59.4	59.4	65.0	80.0	53.5	53.5	65.0	80.0	54	
30		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	30	
36	90	65.0	80.0	65.0	80.0	65.0	75.0	65.0	80.0	36	
42	30	65.0	71.3	65.0	80.0	64.2	64.2	65.0	80.0	42	
48		62.3	62.3	65.0	80.0	56.2	56.2	65.0	80.0	48	
30		65.0	80.0	65.0	80.0	65.0	80.0	65.0	80.0	30	
36	96	65.0	77.9	65.0	80.0	65.0	70.3	65.0	80.0	36	
42	30	65.0	66.8	65.0	80.0	60.2	60.2	65.0	80.0	42	
48		58.5	58.5	65.0	80.0	52.7	52.7	65.0	79.1	48	

	DESIGN LOAD CAPACITY - PSF														
				ANCH	ORS TY	S TYPE 'A' & 'B'				ANCHORS TYPE 'C'					
				CHORS AMBS	3 ANO AT J			CHORS AMBS	2 ANO AT J		3 ANO AT J		4 ANO AT J		
	AVERAGE PANEL WIDTH	DOOR FRAME HEIGHT		CHORS LE ENDS	6 ANO AT STIL		i	CHORS E ENDS	4 ANO AT STIL		6 ANO AT STIL	CHORS E ENDS		CHORS E ENDS	
)	INCHES	INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	
	30		65.0	80.0	65.0	80.0	65.0	80.0	65.0	76.5	65.0	80.0	65.0	80.0	
	36		65.0	70.1	65.0	80.0	65.0	80.0	63.8	63.8	65.0	80.0	65.0	80.0	
	42	82	60.1	60.1	65.0	80.0	65.0	80.0	54.7	54.7	65.0	80.0	65.0	80.0	
	48		52.6	52.6	65.0	78.9	65.0	80.0	47.8	47.8	65.0	71.7	65.0	80.0	
╝	54		46.8	46.8	65.0	70.1	65.0	80.0	42.5	42.5	63.8	63.8	65.0	80.0	
	30		65.0	80.0	65.0	80.0	65.0	80.0	65.0	74.7	65.0	80.0	65.0	80.0	
	36		65.0	68.5	65.0	80.0	65.0	80.0	62.2	62.2	65.0	80.0	65.0	80.0	
	42	84	58.7	58.7	65.0	80.0	65.0	80.0	53.4	53.4	65.0	80.0	65.0	80.0	
	48		51.3	51.3	65.0	77.0	65.0	80.0	46.7	46.7	65.0	70.0	65.0	80.0	
	54		45.6	45.6	65.0	68.5	65.0	80.0	41.5	41.5	62.2	62.2	65.0	80.0	
	30		65.0	76.7	65.0	80.0	65.0	80.0	65.0	69.7	65.0	80.0	65.0	80.0	
	36	90	63.9	63.9	65.0	80.0	65.0	80.0	58.1	58.1	65.0	80.0	65.0	80.0	
	42	30	54.8	54.8	65.0	80.0	65.0	80.0	49.8	49.8	65.0	74.7	65.0	80.0	
	48		47.9	47.9	65.0	71.9	65.0	80.0	43.6	43.6	65.0	65.4	65.0	80.0	
	30		65.0	71.9	65.0	80.0	65.0	80.0	65.0	65.4	65.0	80.0	65.0	80.0	
	36	96	59.9	59.9	65.0	80.0	65.0	80.0	54.5	54.5	65.0	80.0	65.0	80.0	
	42	90	51.3	51.3	65.0	77.0	65.0	80.0	46.7	46.7	65.0	70.0	65.0	80.0	
	48		44.9	44.9	65.0	67.4	65.0	80.0	40.9	40.9	61.3	61.3	65.0	80.0	

DOOR FRAME WIDTH AVERAGE PANEL WIDTH = NUMBER OF PANELS

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY EGRESS REQUIREMENTS PER FBC AS REQUIRED.

FOR DOOR CAPACITY SEE CHARTS ABOVE. FOR FREE STANDING JAMB CAPACITY SEE CHART ON SHEET 6. LOWER VALUES FROM DOOR CAPACITY CHART OR JAMB CAPACITY CHART WILL APPLY.

NO 81223

STATE OF

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AORIDA FL #38057

by description revisions: no date 02-25-21 scale: 3/8" = þ. ch Gr. drawing no. 21-16F sheet 2 of 10

(C.A.N. 3538) FAX. (305) 262-6978

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

2

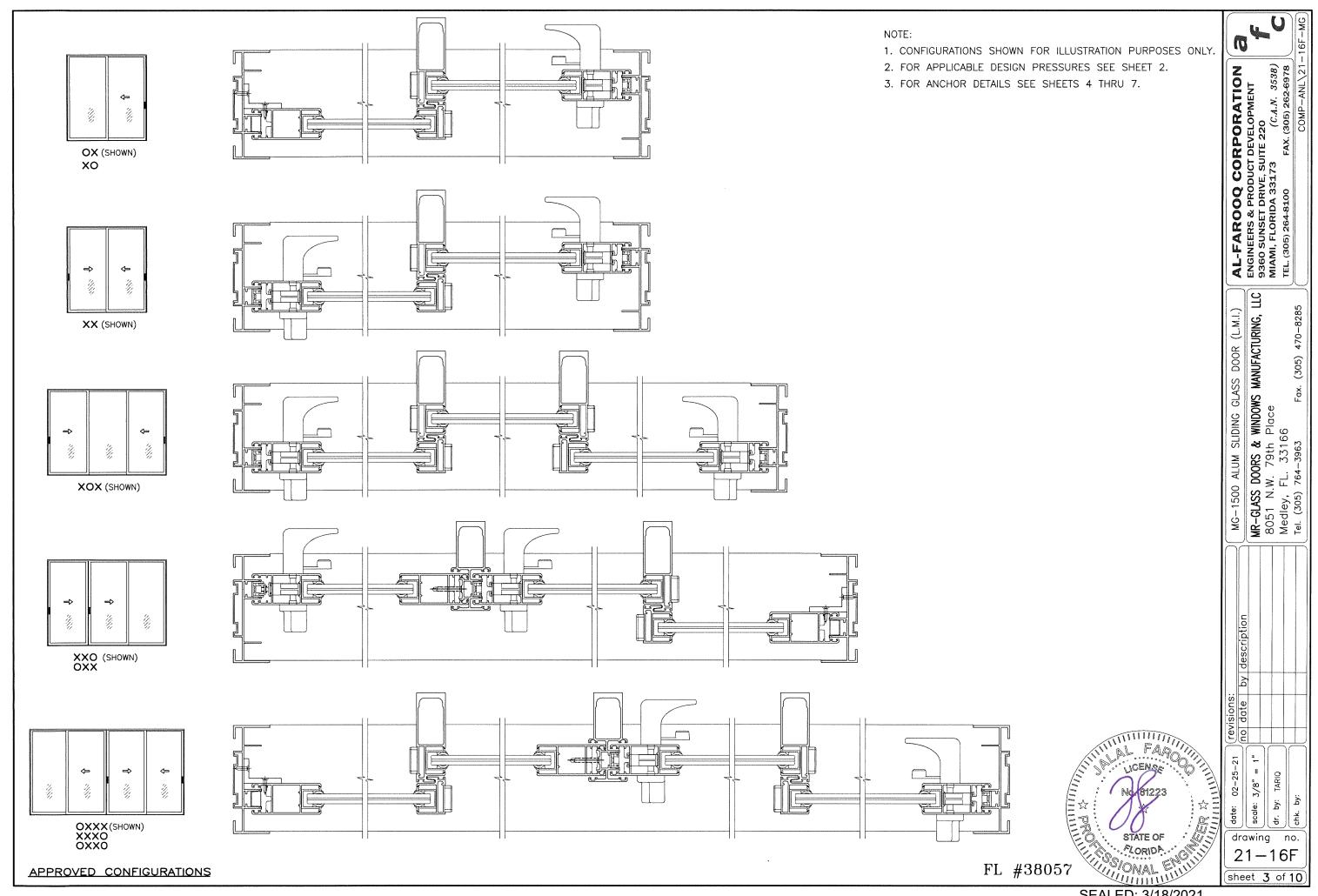
MR-GLASS DOORS & WINDOWS MANUFACTURING, 8051 N.W. 79th Place Medley, FL. 33166 Tel. (305) 764-3963 Fax. (305) 470-828

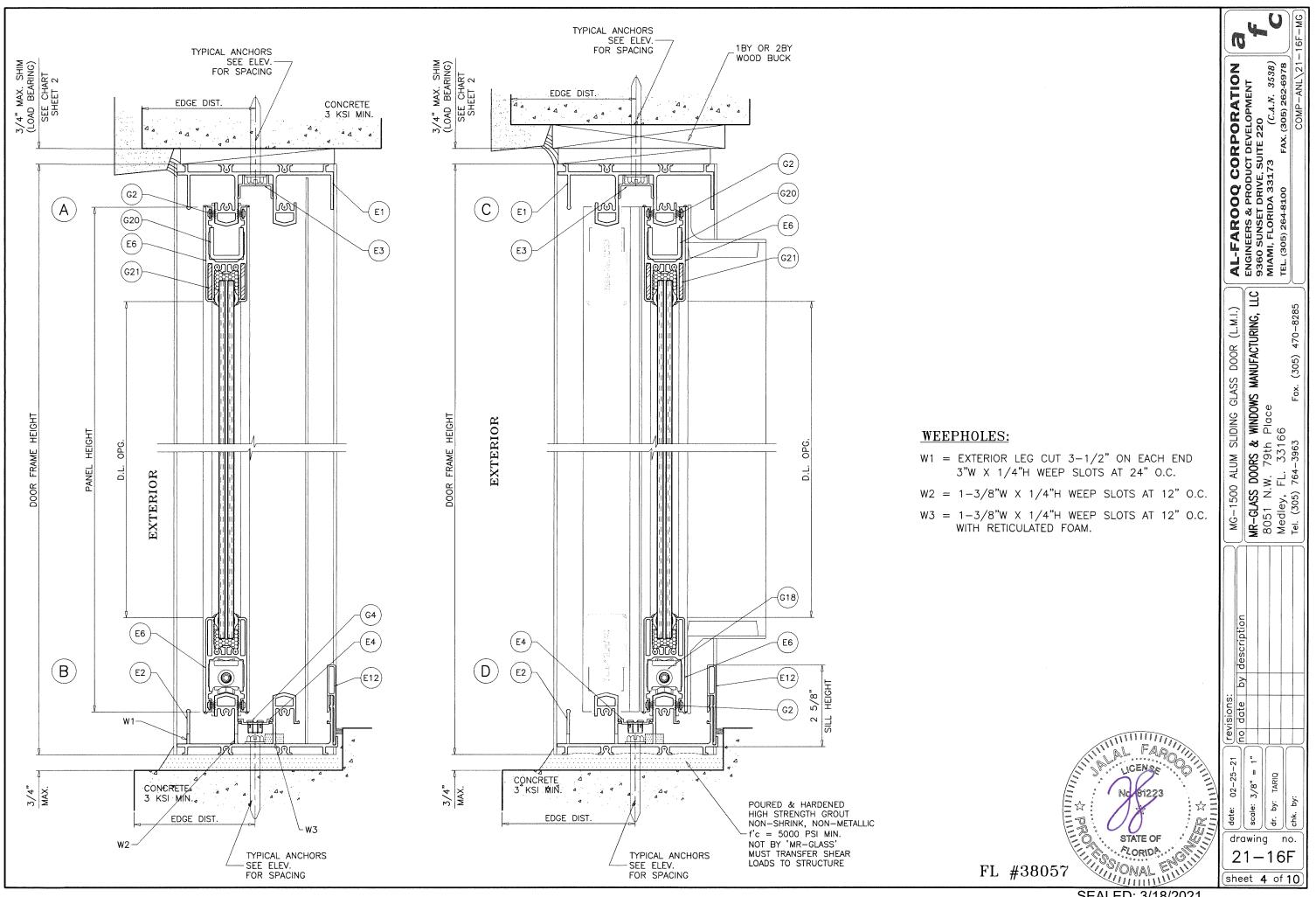
(L.M.I.)

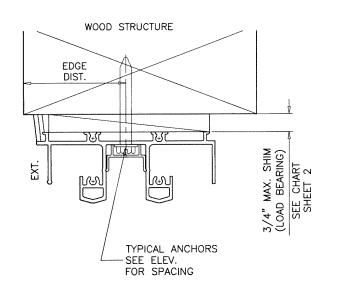
MG-1500 ALUM SLIDING GLASS DOOR

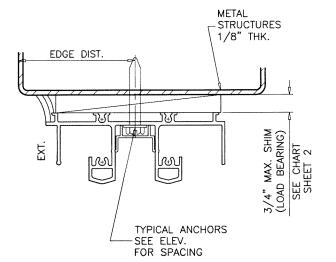
SEALED: 3/18/2021

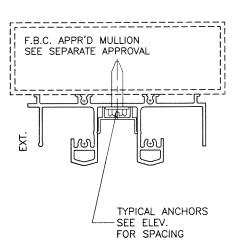
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219











AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33.173 (C.A.N. 3538)
TEL. (305) 264.8100 FAX. (305) 262-6978 MR-CLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8785

SLIDING GLASS DOOR (L.M.I.)

ALUM

MG-1500

by description

/isions date

<u>ب</u>

drawing

21-16F

sheet 5 of 10

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MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'MR-GLASS'

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)

INTO WOOD STRUCTURES

1-7/8" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

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

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

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

DIRECTLY INTO CONC. OR BLOCKS

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

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

TYPE 'B'- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)

DIRECTLY INTO CONCRETE

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

TYPE 'C'- 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS

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. (Fy = 36 KSI MIN.)

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

TYPICAL EDGE DISTANCE

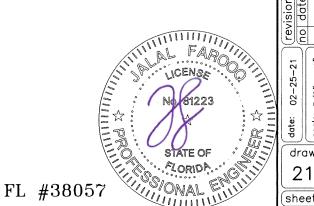
INTO CONCRETE AT HEAD/SILL = 2-3/16" MIN.

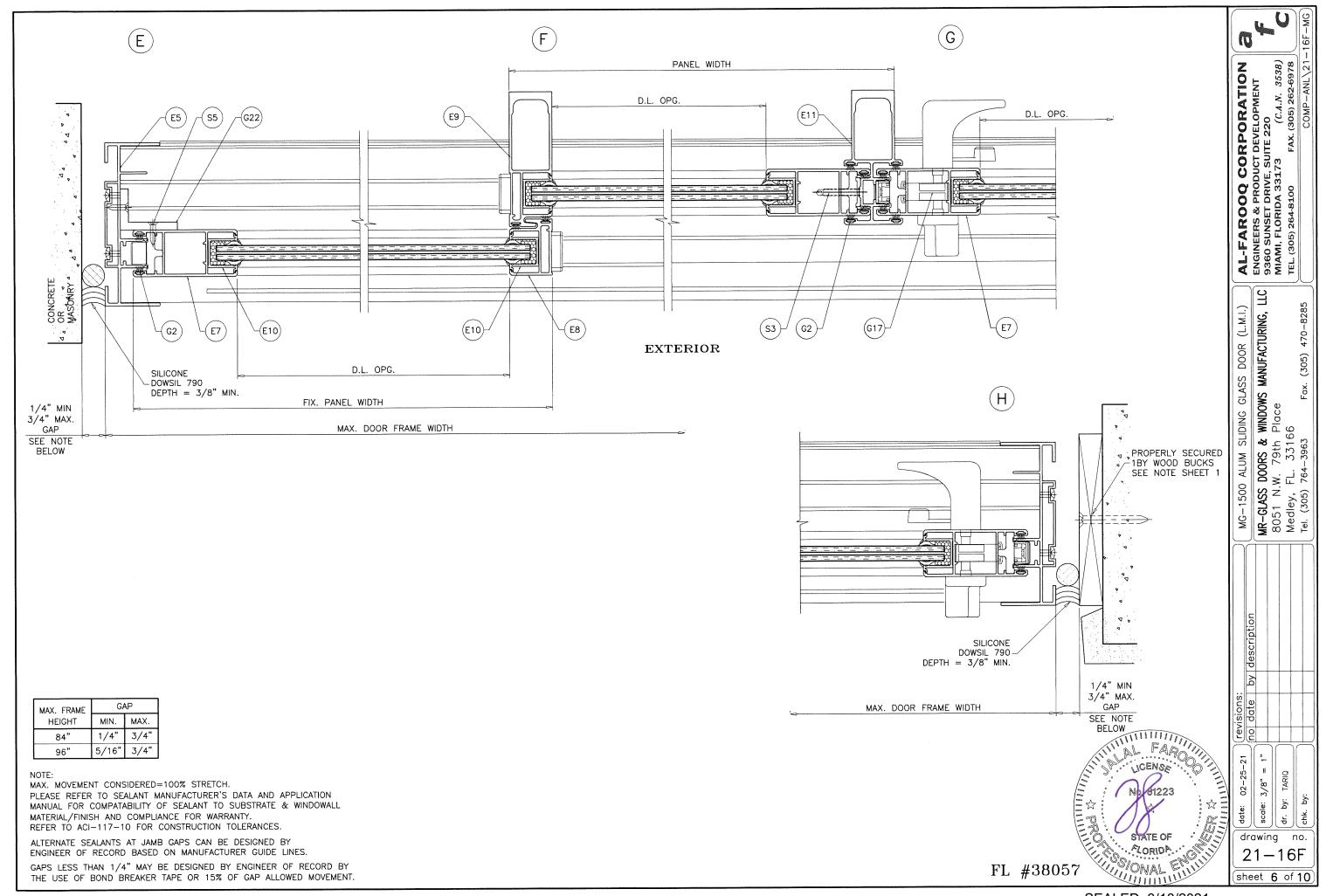
INTO CONCRETE AND BLOCKS AT JAMBS = 2-1/2" MIN.

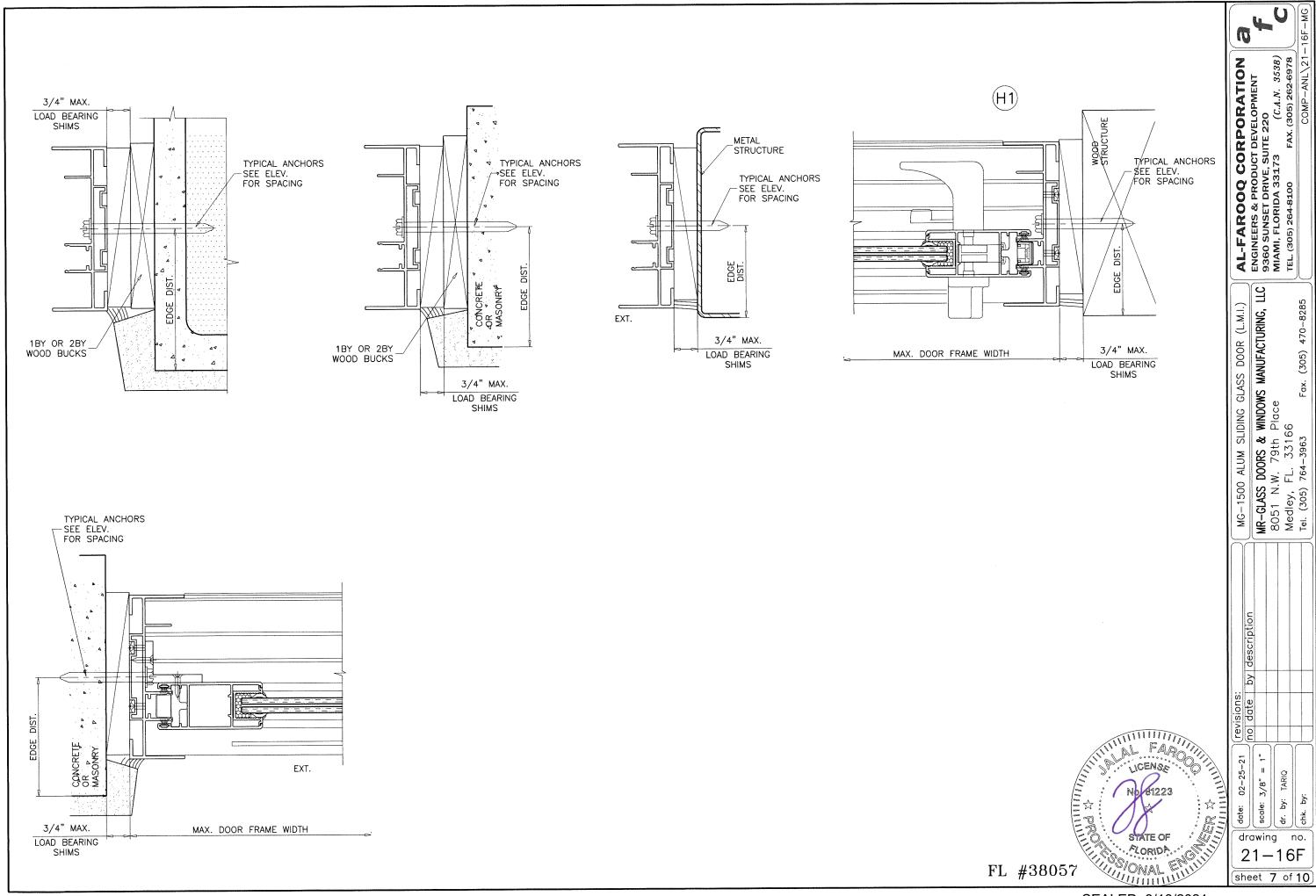
INTO WOOD STRUCTURE = 1-1/4" MIN.

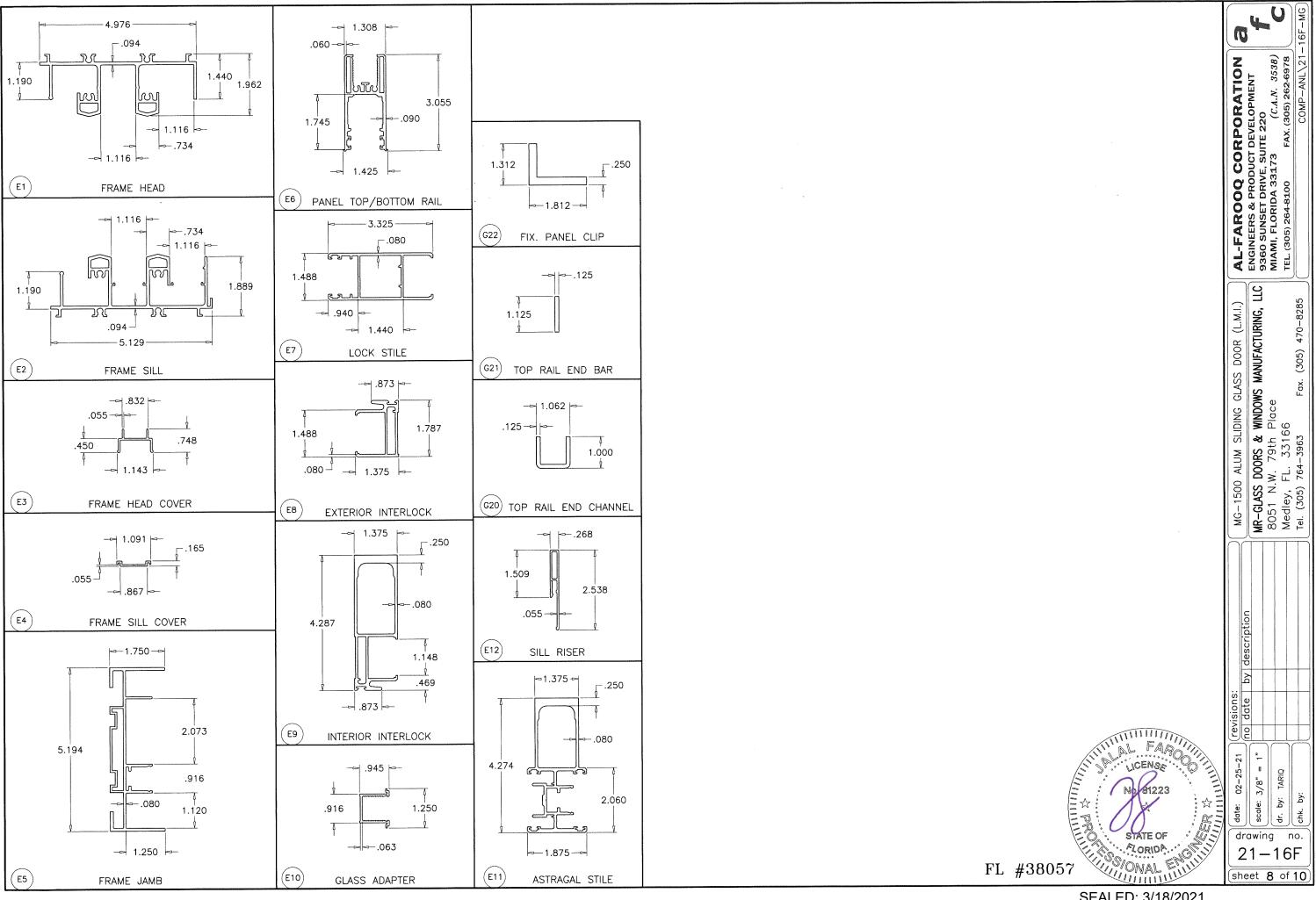
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN. CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN. C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.









ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	E1503	1	FRAME HEAD	6063-T6	_
E2	E1501	1	FRAME SILL	6063-T6	_
E3	E1522	AS REQD.	FRAME HEAD COVER	6063-T5	OPTIONAL
E4	E1520	AS REQD.	FRAME SILL COVER	6063-T5	OPTIONAL
E5	E1502	2	FRAME JAMB	6063-T6	_
E6	E1510	2/ PANEL	PANEL TOP/BOTTOM RAIL	6063-T6	_
E7	E1511	AS REQD.	LOCK STILE	6063-T6	_
E8	E1512	AS REQD.	EXTERIOR INTERLOCK	6063-T6	_
E9	E1513	AS REQD.	INTERIOR INTERLOCK	6063-T6	_
E10	E1517	AS REQD.	GLASS ADAPTER	6063-T6	. —
E11	E1514	AS REQD.	ASTRAGAL STILE	6063-T6	
E12	E1521	AS REQD.	SILL RISER	6063-T5	-
G1	G15-01L	AS REQD.	WEDGE GASKET	EPDM	DUROMETER 65±5 SHORE A
G2	G15-02	AS REQD.	PILE W'STRIPPING	POLYETHYLENE/YARN	_
G3	G15-12	AS REQD.	BALL VALVE	_	_
G4	G15-12	AS REQD.	HOLE PLUG	PVC	_
G5	G15-15	AS REQD.	GASKET	NEOPRENE	_
G6	M10-05	AS REQD.	EXTERIOR BUMPER	-	_
G7	M15-01	AS REQD.	LOCK STILE COVER	POLYAMIDE	_
G8	M15-02	AS REQD.	_		_
G9	M15-03	AS REQD.	LOCK STILE GUIDE	POLYAMIDE	_
G10	-	AS REQD.	PANEL BUMPER	NEOPRENE	
G11	M15-04	AS REQD.	INTERLOCK COVER	POLYAMIDE	_
G12	M15-05	AS REQD.	INTERLOCK COVER	POLYAMIDE	
G13	M15-06	AS REQD.	INTERLOCK COVER/GUIDE	POLYAMIDE	
G14	M15-07	AS REQD.	INTERLOCK CAP	POLYAMIDE -	
G15	M15-09	AS REQD.	ASTRAGAL CAP	POLYAMIDE	_
G16	M15-11	AS REQD.	ASTRAGAL COVER	POLYAMIDE	_
G17	L15-01	_	2 POINT MORTISE LOCK & HANDLE	ZAMAK	INTERLOCK
G18	M15-20	2/ MOV PANEL	ROLLER ASSEMBLY AT 9" FROM ENDS	ST. STEEL/ACETAL	FASTENED WITH (2) 12-24 X 3/4" PH MS
G19	W13-20	AS REQD.	SETTING BLOCKS	EPDM	DUROMETER 80±5 SHORE A
G20		AS REQD.	TOP RAIL END CHANNEL, 4" LONG AT PANEL ENDS	6063-T6	_
G21		AS REQD.	TOP RAIL END BAR, 4" LONG AT PANEL ENDS	6063-T6	-
	400	2/ FIX. PANEL	FIXED PANEL CLIP, 1-7/8" LONG, AT 4" FROM TOP & BOTTOM	6063-T6	_
G22		Z/ HA. FAIRLE	TIMES TABLE CERT, 1 7/0 CONG, AT 4 THOM TO & BOTTOM		
- C1	#12 X 1 1/2"	4/ CORNER	FRAME ASSEMBLY FASTENERS	ST. STEEL	PH SDS
S1 s2	#12 X 1 1/2"	4/ CORNER	PANEL ASSEMBLY FASTENERS	ST. STEEL	PH SDS
S2		AS REQD.	ASTRAGAL FASTENERS, AT 3-1/2" FROM ENDS & 8" O.C.	ST. STEEL	FH SDS
S3	#12 X 1 1/2" #10 X 1"	AS REQD. AS REQD.	BALL VALVE FASTENERS	ST. STEEL	PH SMS
S4				ST. STEEL	FH SMS
S5	#10 X 1"	2/ CLIP	FIX. CLIP FASTENERS	31. SIEEL	111 JWJ

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

LOCKS:

SURFACE MOUNT METALLIC THREE PLY DUAL HOOK LOCK AT 38-1/2" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) 10-24 X 1/2" FH TC MS

SURFACE MOUNT METALLIC HANDLE AT 38-1/2" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) 8-32 X 2-5/8" FH MS

SURFACE MOUNT METALLIC KEEPER FACING LOCK AT 38 1/2" FROM BOTTOM

(1) #14 X 2-7/8" FH SDS AND (1) 12-24 X 1/2" PH MS

 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

| MG-1500 ALUM SLIDING GLASS 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 | | Medley | M

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