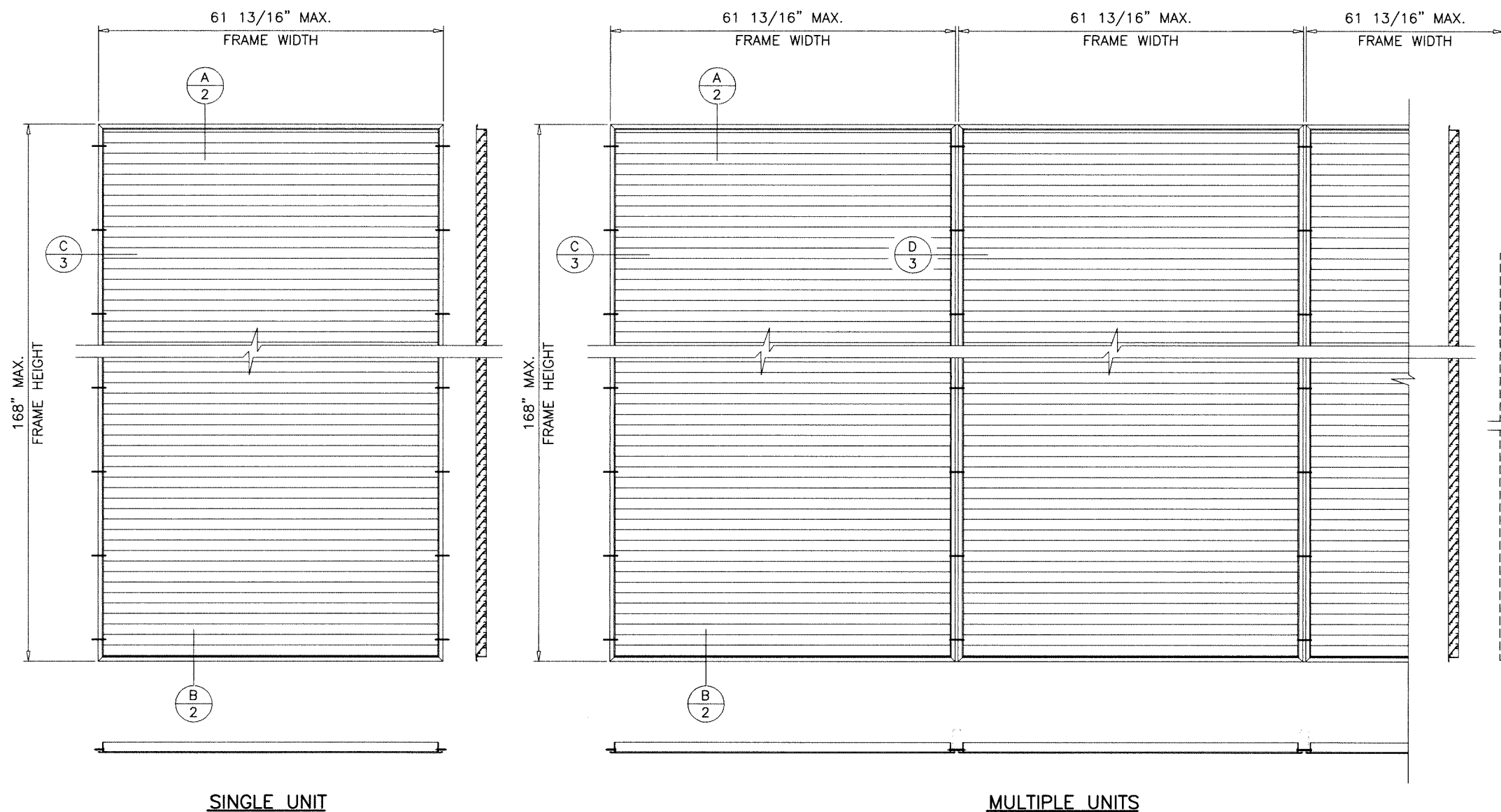




TYPICAL ELEVATIONS

SERIES MG-450 ALUMINUM LOUVER SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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.

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 2023/2026 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.

LOUVER SYSTEM IS TO BE INSTALLED IN LOCATIONS WHERE THE ROOM BEHIND LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM. THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

- 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.

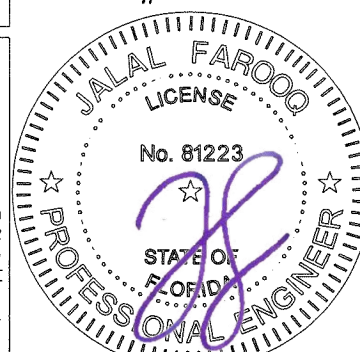
MAX. DESIGN LOAD RATING	
FRAME WIDTH	LOAD CAPACITY
59- 1/2" MAX.	80.0 PSF
61-13/16" MAX.	73.8 PSF

INTERPOLATION BETWEEN WIDTHS ALLOWED

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Sealed: 10/9/2026

FL #39859

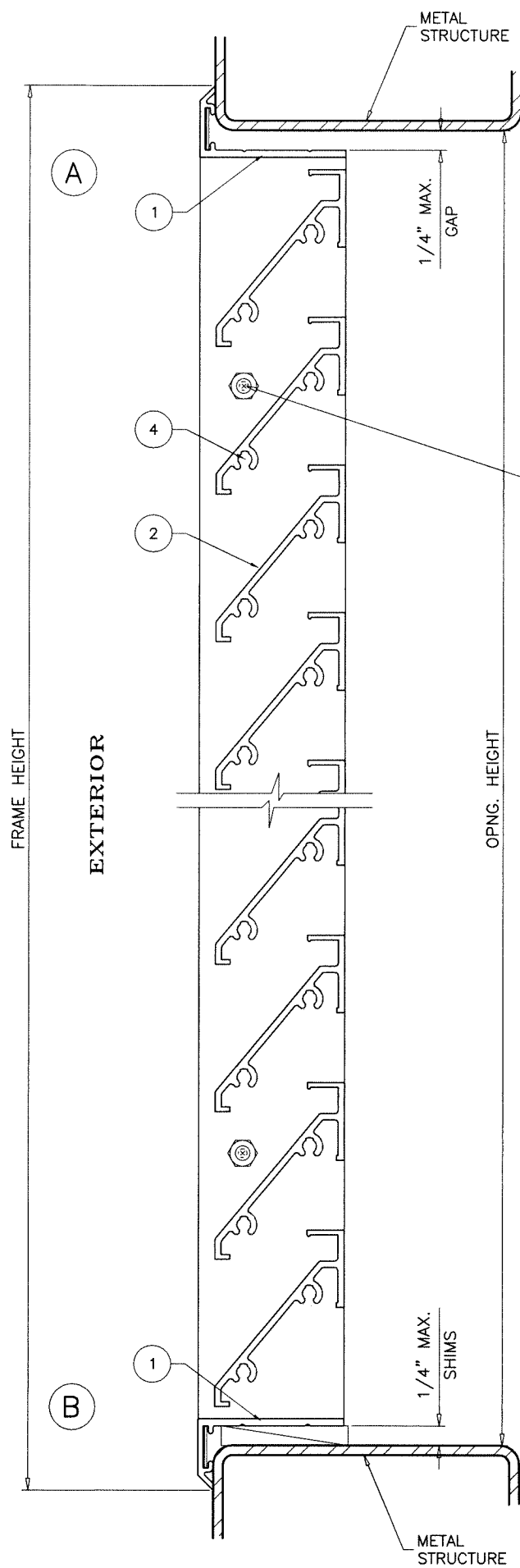


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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SERIES MG-450 ALUMINUM STATIONARY LOUVERS
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

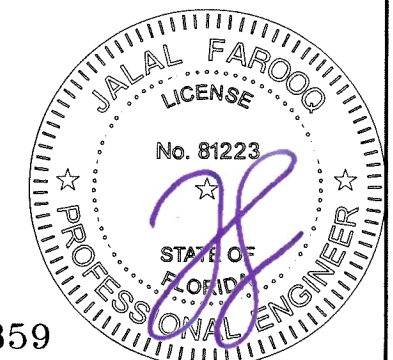
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no.	date	no.	date	description
A	07.18.23			UPDATED TO 2023 FBC
B	10.08.26			UPDATED TO 2026 FBC
drawing no.		scale:	1/2"=1'-0"	dr. by: TARIQ
sheet 1 of 4		chk. by:		



METAL STRUCTURES NOT BY 'MR-GLASS'
MUST SUPPORT LOADS IMPOSED BY LOUVER SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

JAMB ANCHORS:
1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
1/4" DIA. TEKS SELECT BY 'ITW' OR ST. STEEL SCREWS
 ST. STEEL (304, 305, 316) (Fu=120 KSI, Fy=92 KSI)
 INTO F.B.C. APPROVED MULLIONS
 AND
 INTO METAL STRUCTURES
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 .078" THK. MIN. (6063-T6)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
CRITICAL EDGE DISTANCE
 INTO METAL STRUCTURE = 1/2" MIN.

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FL #39859

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MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

LOUVER 21-64F-MG

SERIES MG-450 ALUMINUM STATIONARY LOUVERS

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:

no	date	by	description

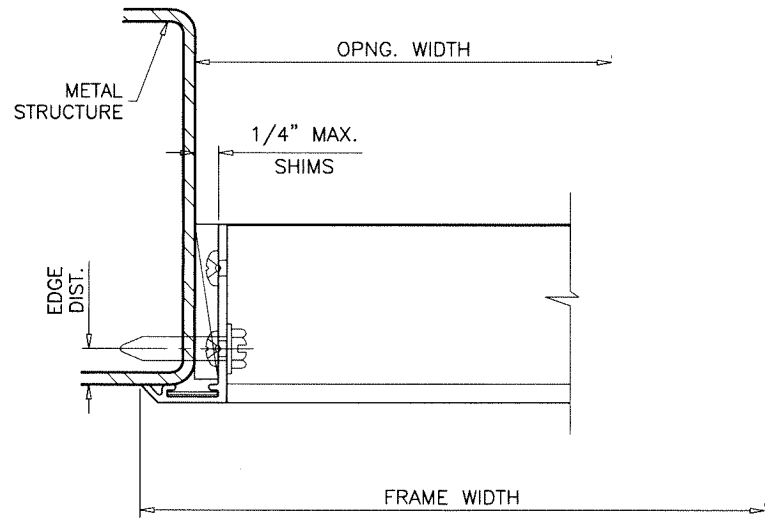
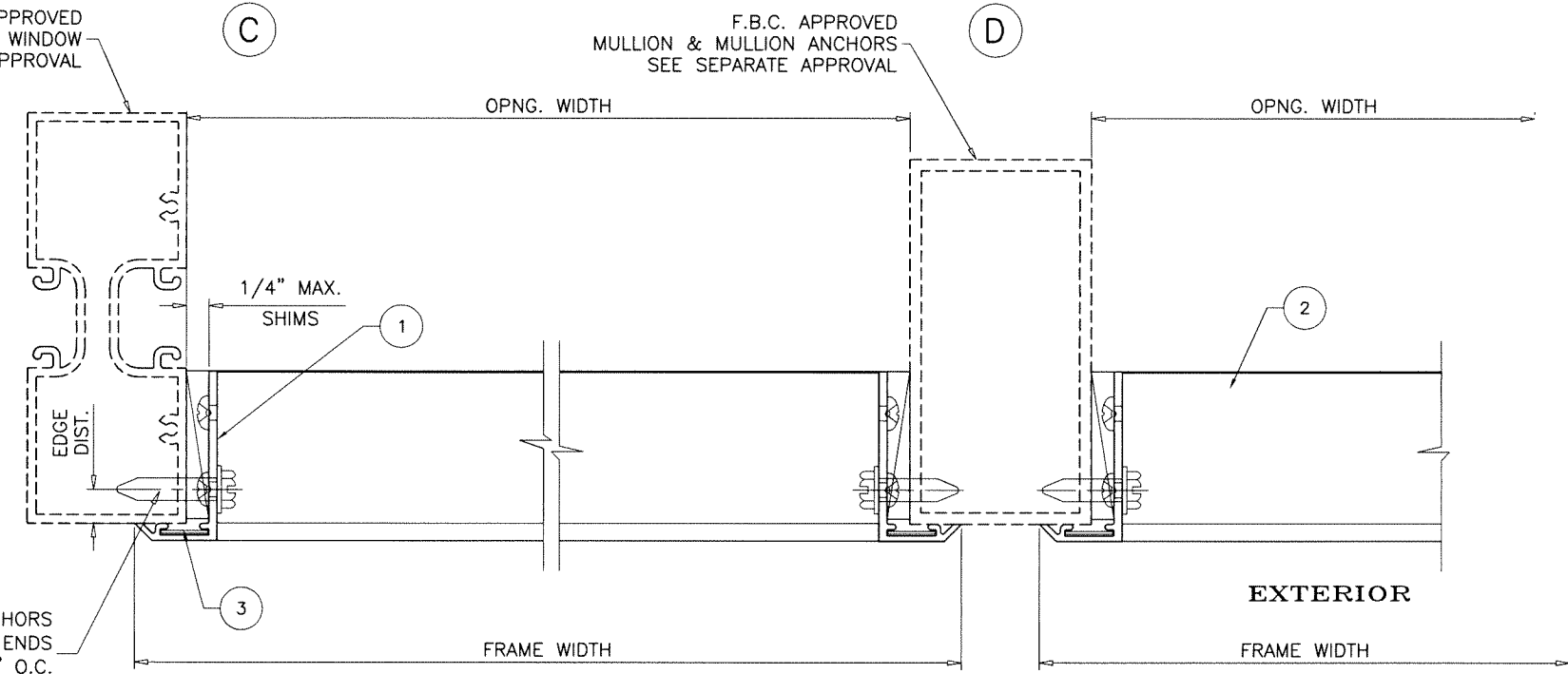
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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
21-64F
sheet 2 of 4

F.B.C. APPROVED
WINDOW WALL, DOOR OR WINDOW
SEE SEPARATE APPROVAL

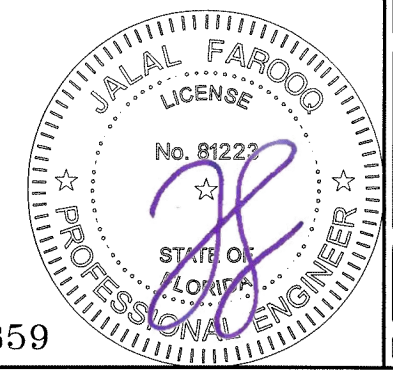
F.B.C. APPROVED
MULLION & MULLION ANCHORS
SEE SEPARATE APPROVAL

JAMB ANCHORS
AT 2-3/4" FROM ENDS
AND 15" O.C.
TYP.



EXTERIOR

Sealed: 10/9/2026



FL #39859

af c
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TEL. (305) 264-8100 FAX. (305) 262-6978
LOUVER\21-64F-MG

SERIES MG-450 ALUMINUM STATIONARY LOUVERS
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revisions:	
no	date by description

date: 09-01-21

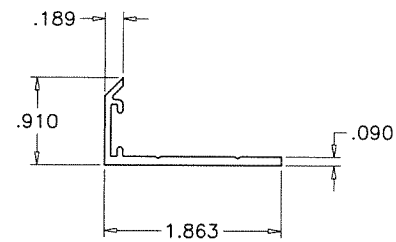
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dr. by: TARIQ

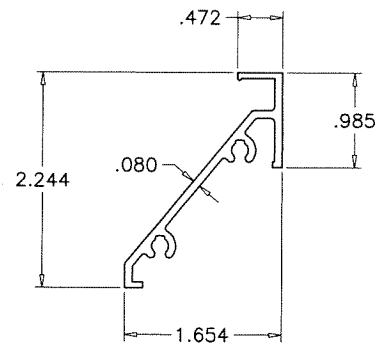
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drawing no.
21-64F

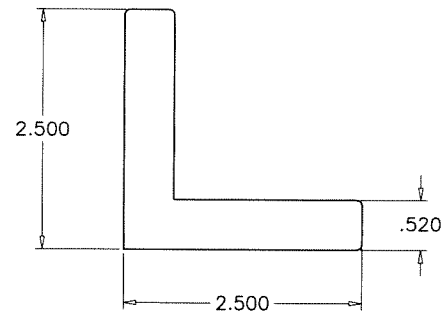
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1 LOUVER FRAME

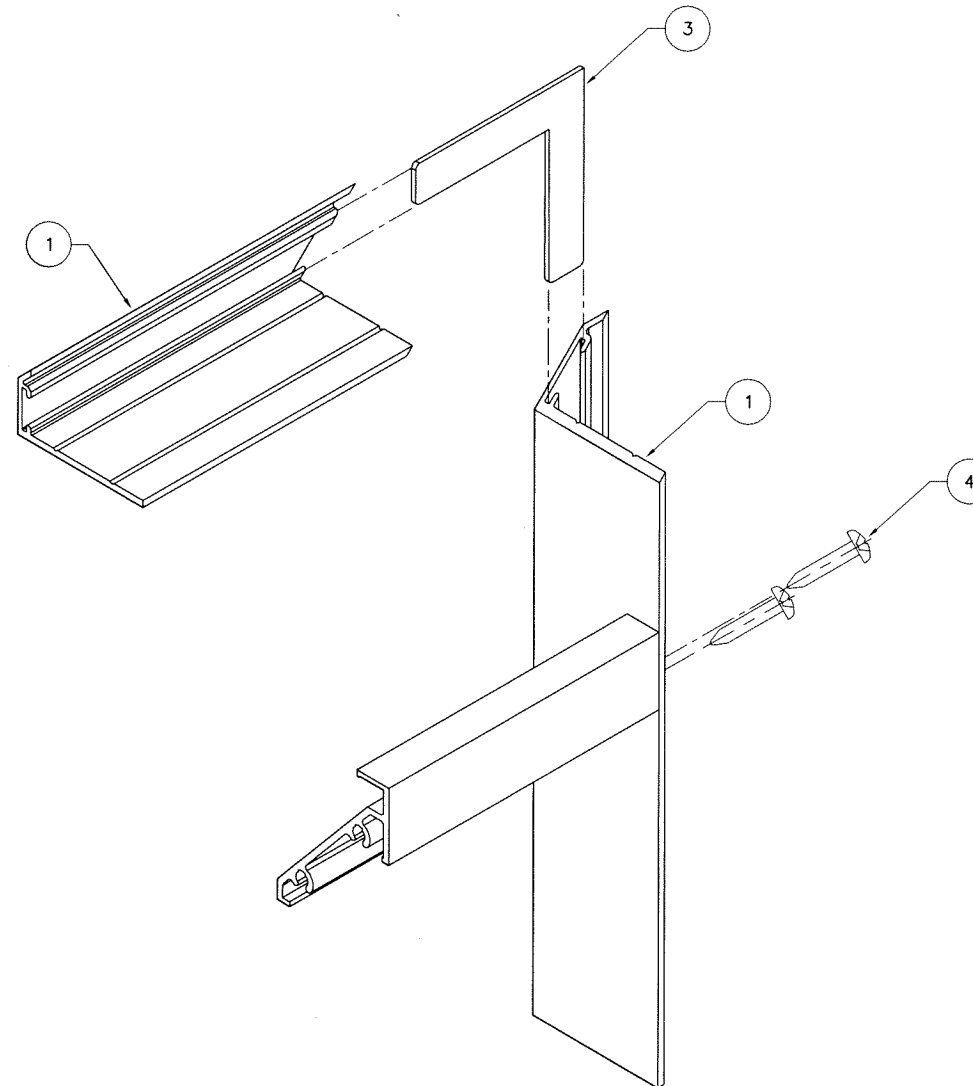


2 LOUVER BLADE

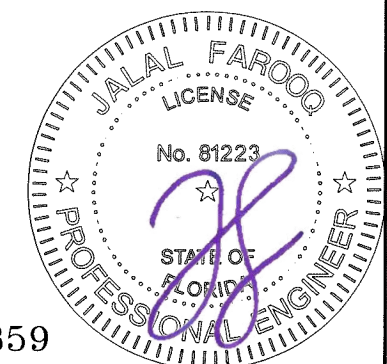


3 CORNER KEY

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E454	AS REQD.	LOUVER FRAME	6063-T6	-
2	E453	AS REQD.	LOUVER BLADE	6063-T6	-
3	A60-04	1/ CORNER	CORNER KEY	ST. STEEL	-
4	#10 X 1"	AS REQD.	ASSEMBLY FASTENERS	-	PH PAN HEAD SMS
5	-	-	-	-	-



Sealed: 10/9/2026



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LOUVER 21-64F-MG

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LOUVER 21-64F-MG

revisions:		date		by description	
no	date	no	date	by	description

date: 09-01-21	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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drawing no.	21-64F
sheet	4 of 4