

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

MG3500
RESIDENTIAL OUTSWING ENTRY DOOR

DESIGN LOAD CAPACITY OF SINGLE (X) AND DOUBLE (XX) LEAF
DOORS SEE SHEET 2.

DOORS CAN ALSO BE USED WITH 'MR. GLASS' SERIES MG3000
SIDELITES, SEE SEPARATE APPROVAL FOR SDIELITE AND SIDELITE
MULLION CAPACITY.

LOWER VALUES FROM DOOR CAPACITY, SIDELITE CAPACITY OR
SIDELITE MULLION CAPACITY WILL APPLY TO ENTIRE SYSTEM.

DOORS APPROVED FOR INSTALLATION WHERE WATER INFILTRATION
RESISTANCE IS REQUIRED.

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).

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.

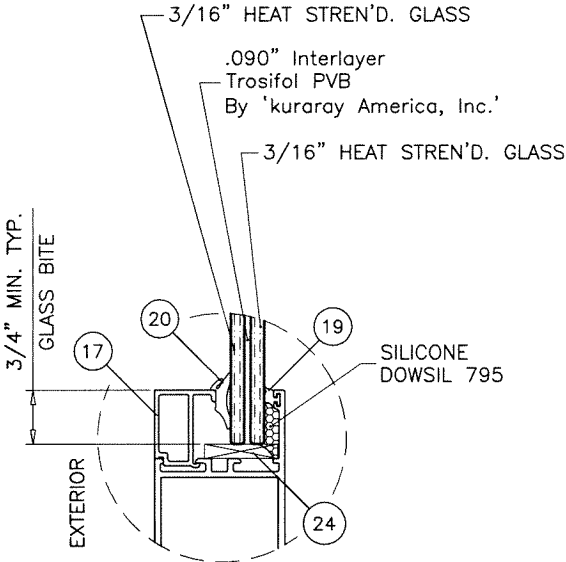
ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL
OR OTHER RIGID MATERIALS).

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.

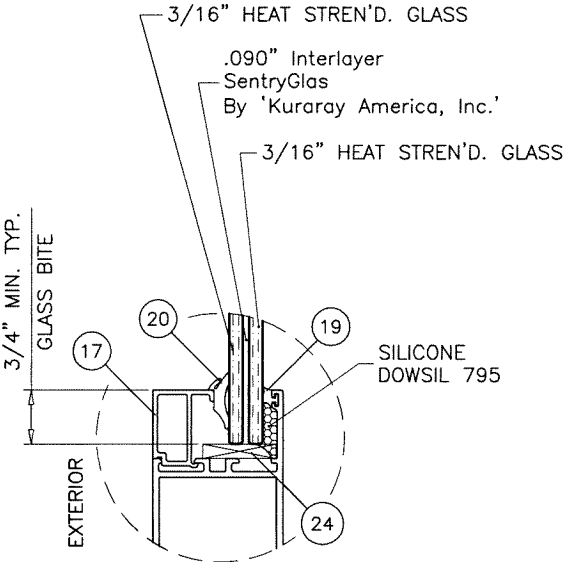
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR
WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

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

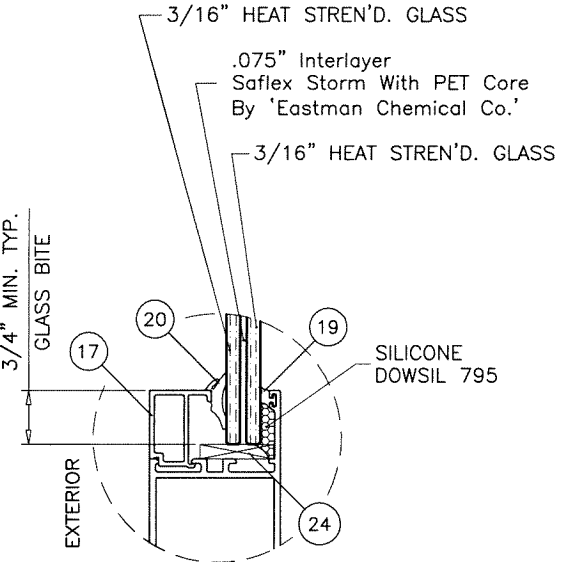
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.



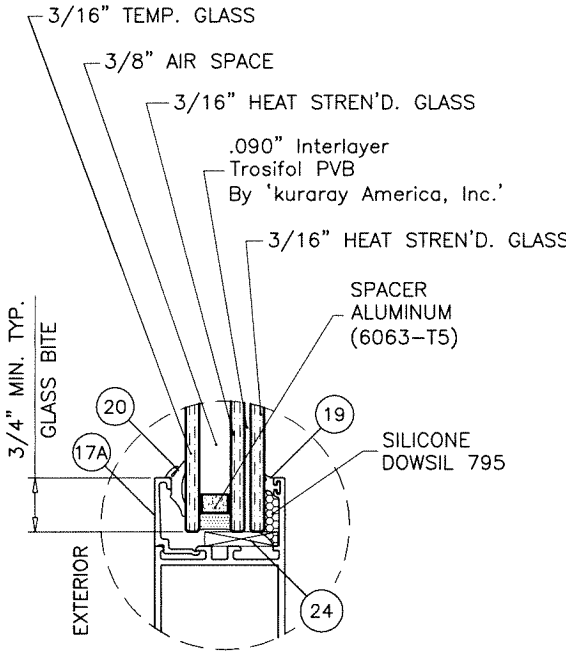
GLASS TYPE 'A'



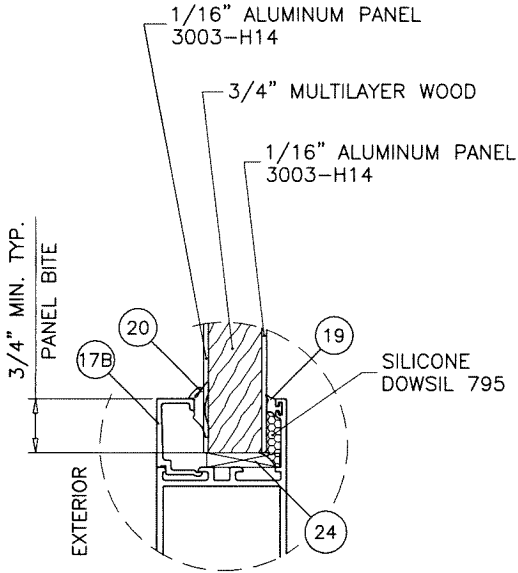
GLASS TYPE 'B'



GLASS TYPE 'C'



GLASS TYPE 'Ai'



7/8" OVERALL GLUED CLADDED PANEL

EXTERIOR AND INTERIOR ALUMINUM CLADDING GLUED TO
CENTER CORE WITH MRG-A-30-013

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.

Sealed: 8/4/2026

FL #26942

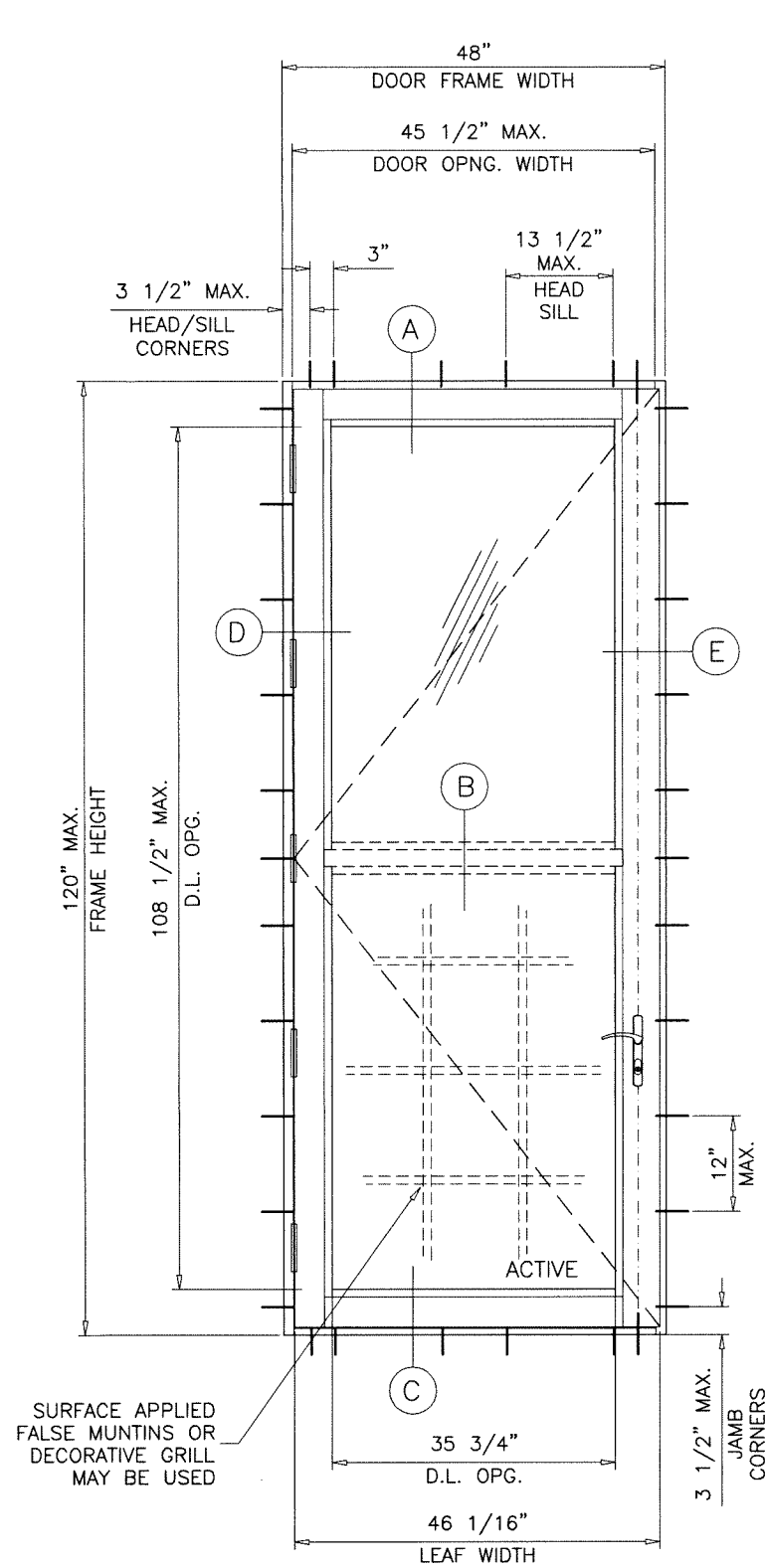
A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND
INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION
PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED
ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF
ALTERED BY ANY MEANS.
C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED
ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.)
FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER
USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED
ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE
SPECIFIC DRAWINGS FOR REVIEW.
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



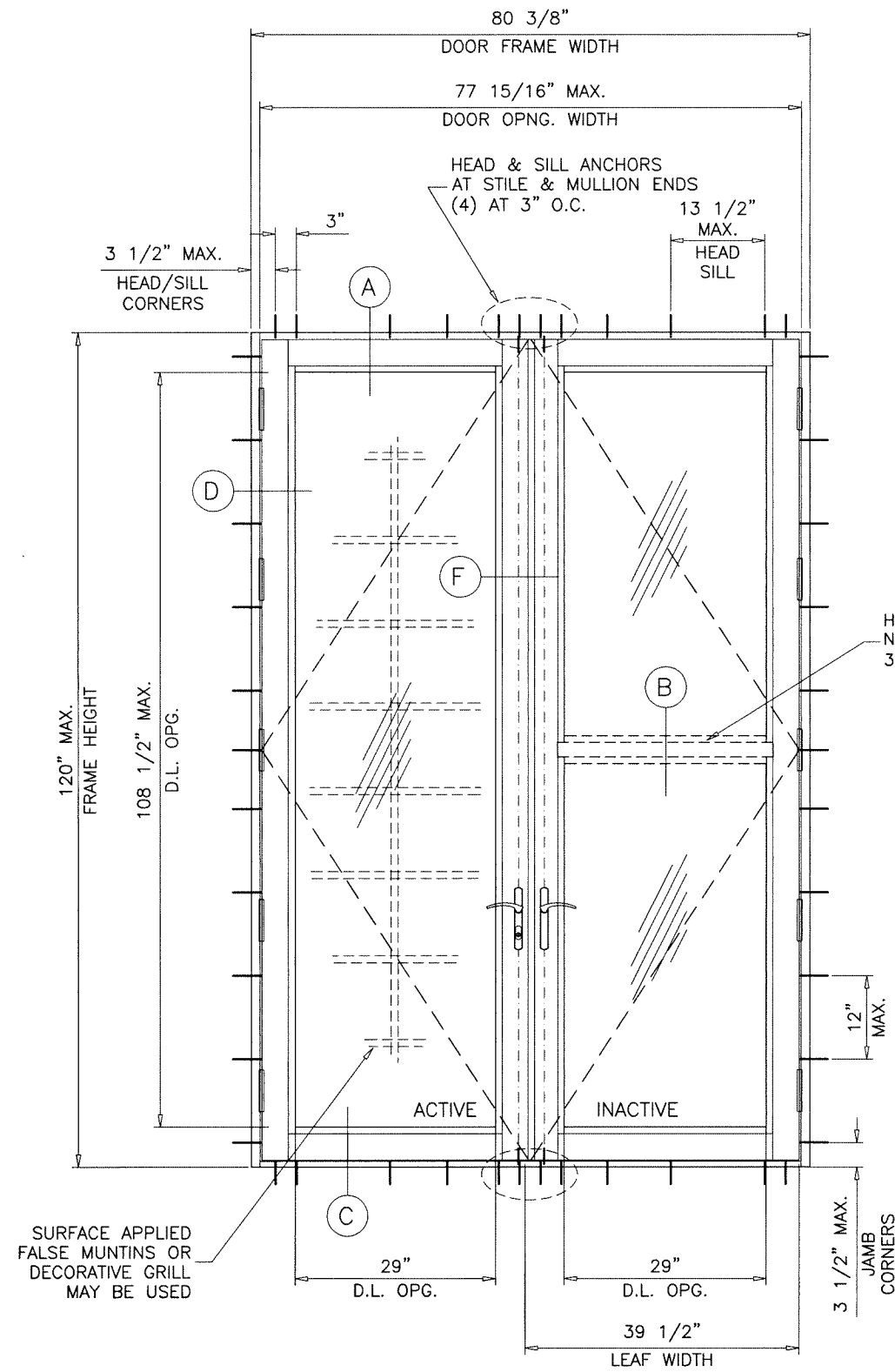
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\23-29F-MG

MG3500 RESIDENTIAL OUTSWING 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

revisions:					
date:	06-26-23	no	date	by	description
scale: 3/8" = 1"	drawing no.	A	07.18.23		UPDATED TO 2023 FBC
		B	05.30.25		GLASS INSERT OPTION ADDED
		C	08.03.26		UPDATED TO 2026 FBC
dr. by:	TARIQ				
chk. by:					
sheet 1 of 7					



TYPICAL ELEVATION
(X)



TYPICAL ELEVATION
(XX)

NOTE:
EGRESS REQUIREMENTS TO BE REVIEWED
BY BUILDING OFFICIAL.

GLASS D.L.O. FORMULAE:
D.L.O. WIDTH = FRAME WIDTH - 12.438" (X DOORS)
= (FRAME WIDTH - 22.0")/2 (XX DOORS)
D.L.O. HEIGHT = FRAME HEIGHT - 11.50"

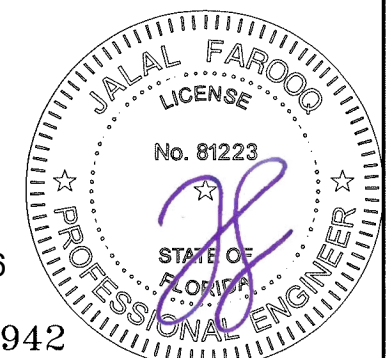
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

DOORS LOAD CAPACITY - PSF SINGLE (X) DOORS									
SINGLE DOOR (X) DIMS.		GLASS				GLUED CLADDED PANEL			
		TYPE 'A' & 'Ai'		TYPE 'B'		TYPE 'C'			
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
40-1/2"	98"	80.0	80.0	65.0	70.0	60.0	60.0	80.0	80.0
41-3/8"	120"	-	-	65.0	70.0	60.0	60.0	80.0	80.0
48"	120"	-	-	65.0	70.0	60.0	60.0	80.0	80.0

DOORS LOAD CAPACITY - PSF DOUBLE (XX) DOORS									
DOUBLE DOOR (XX) DIMS.		GLASS				GLUED CLADDED PANEL			
		TYPE 'A' & 'Ai'		TYPE 'B'		TYPE 'C'			
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
78-1/2"	98"	80.0	80.0	65.0	70.0	60.0	60.0	80.0	80.0
80-3/8"	120"	-	-	-	-	60.0	60.0	60.0	60.0

Sealed: 8/4/2026

FL #26942



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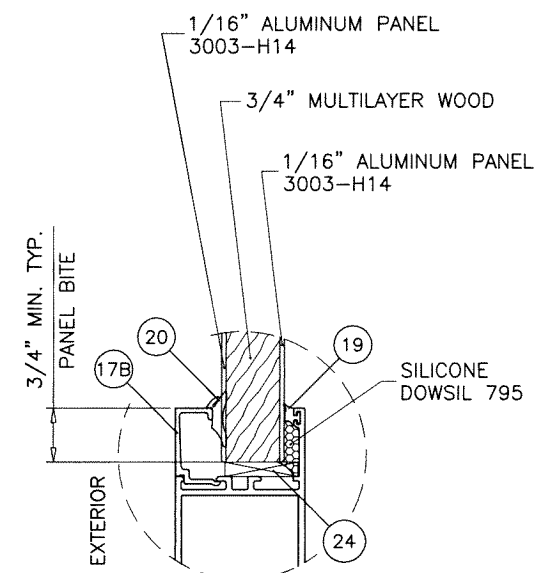
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revisions:		by description	
no	date		
1	06-26-23	scale: 1/2" = 1'-0"	dr. by: TARIQ
			chk. by:
drawing no.		23-29F	
sheet 2 of 7			

TYPICAL ELEVATION
(X)

CLADDED PANEL DOOR

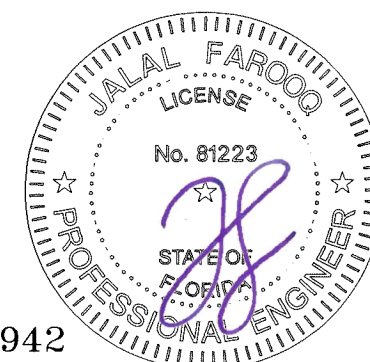
MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
- 80.0 PSF
(FOR SIZE SHOWN ON THIS SHEET ONLY OR SMALLER)



7/8" OVERALL GLUED CLADDED PANEL

EXTERIOR AND INTERIOR ALUMINUM CLADDING GLUED TO
CENTER CORE WITH MRG-A-30-013

Sealed: 8/4/2026



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date:	06-26-23
scale:	-
dr. by:	TARIQ
chk. by:	

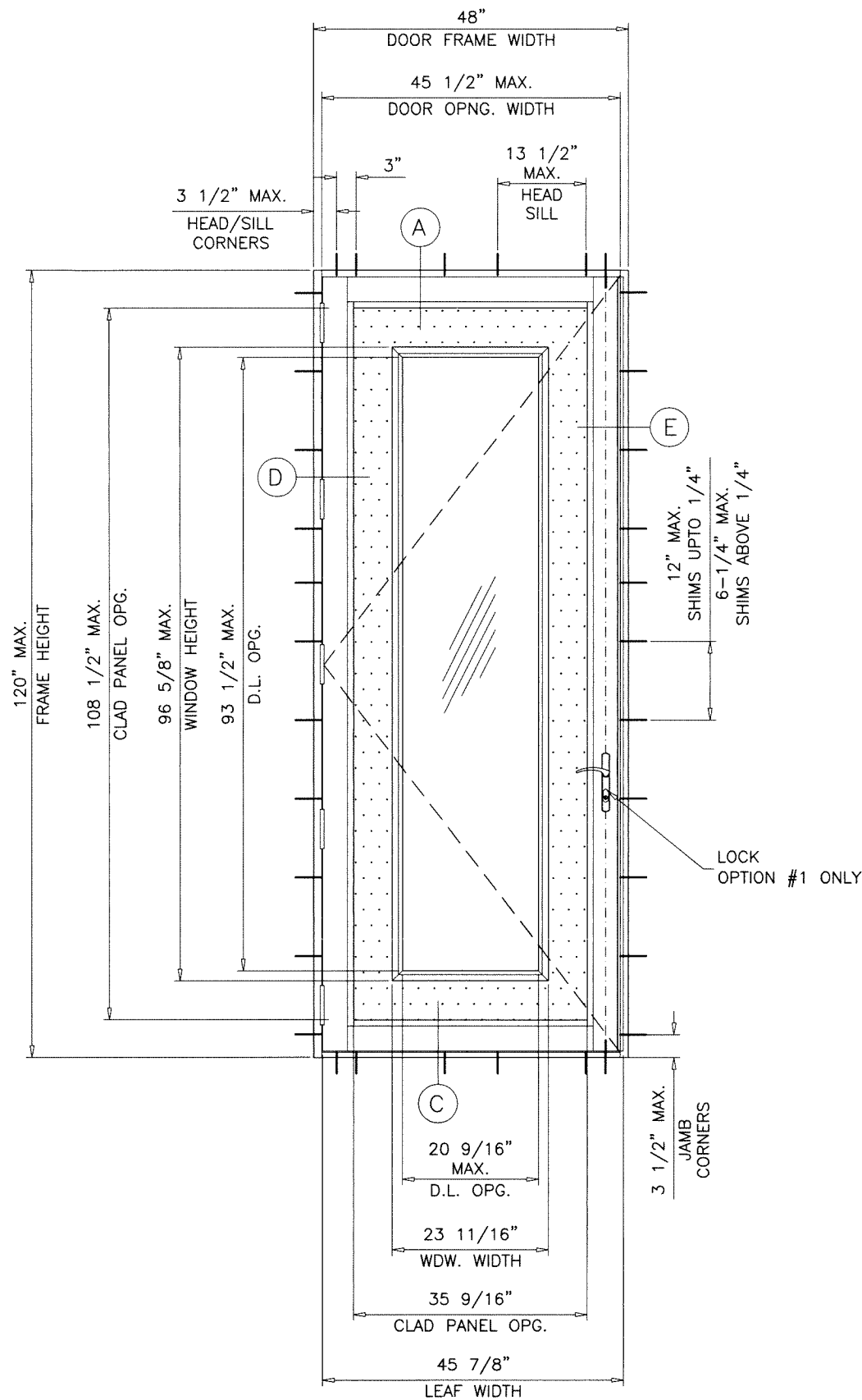
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23-29F

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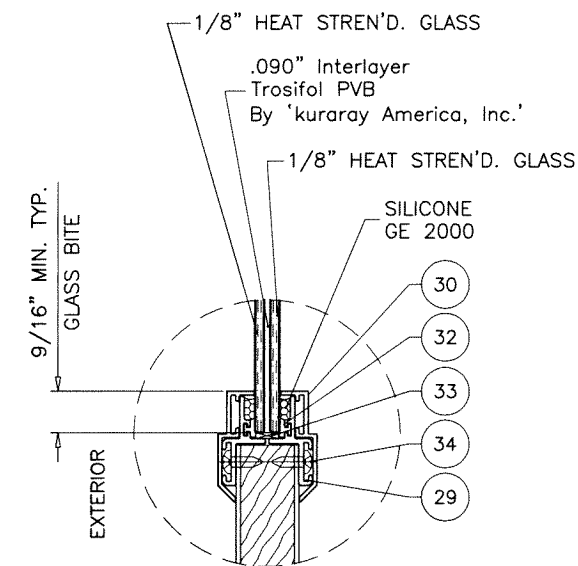
FL #26942



TYPICAL ELEVATION

(X)

CLADDED PANEL DOOR WITH WDW. INSERT
 MAXIMUM DESIGN LOAD RATING = + 60.0 PSF
 - 60.0 PSF
 (FOR SIZE SHOWN ON THIS SHEET ONLY OR SMALLER)



WINDOW INSERT AT INFILL PANEL

SEE SHEET 1 FOR 7/8\"/>

Sealed: 8/4/2026



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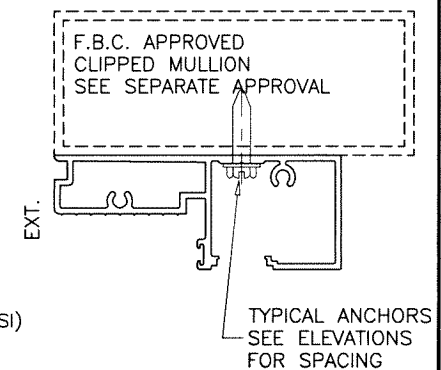
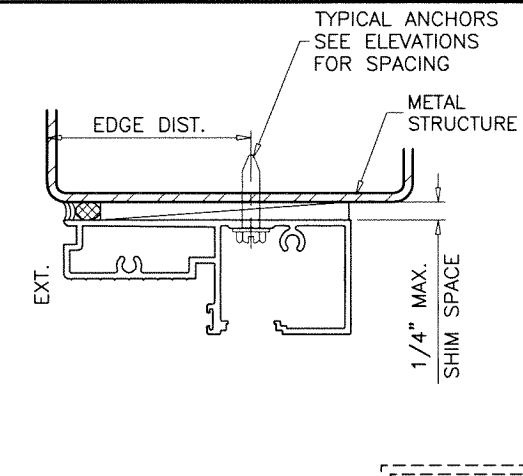
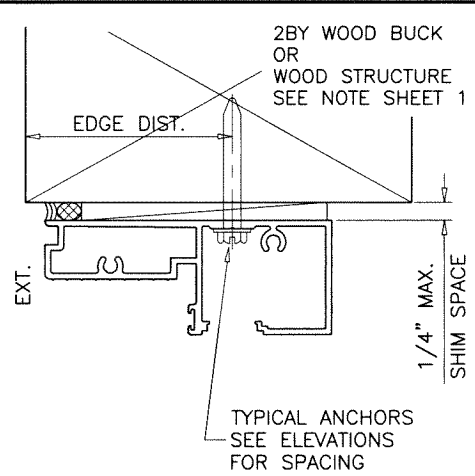
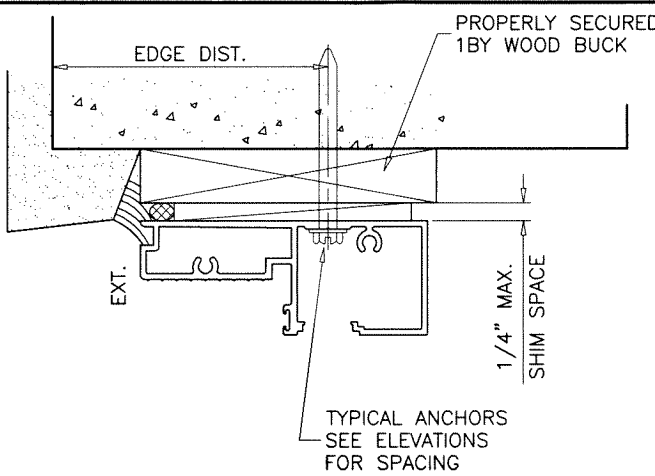
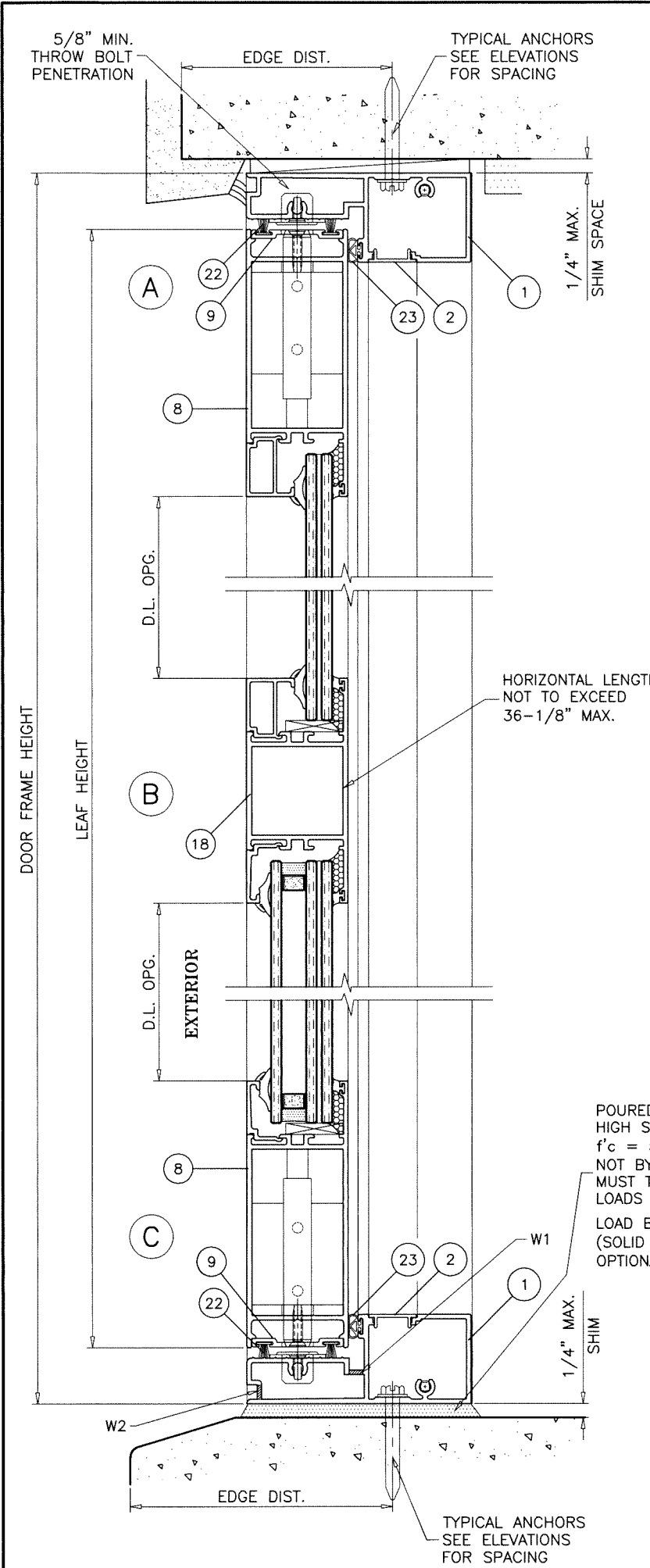
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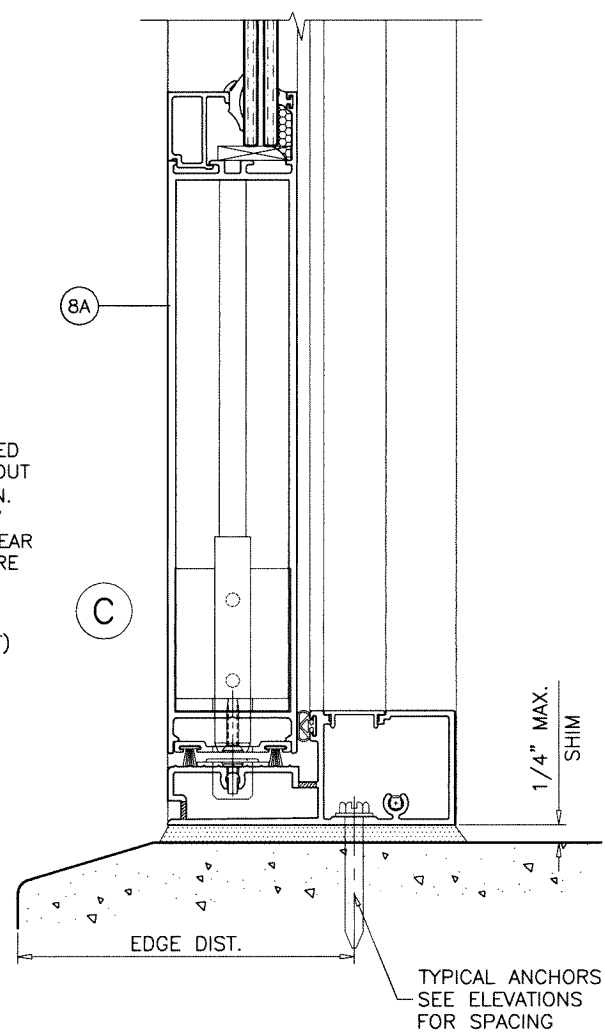
drawing no.

23-29F

sheet 3.1 of 7



1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'MR-GLASS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)
1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
CRITICAL EDGE DISTANCE
 INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.
 WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

WEEPHOLES:
 W1 = 1/4" X 2" LONG WEEP SLOTS AT 8" AND 31" FROM EACH END
 W2 = 1/4" X 2" LONG WEEP SLOTS AT 5" AND 31" FROM EACH END



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Sealed: 8/4/2026

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revisions:		date		by description	
no	date	no	date	no	date

date: 06-26-23

scale: 3/8" = 1"

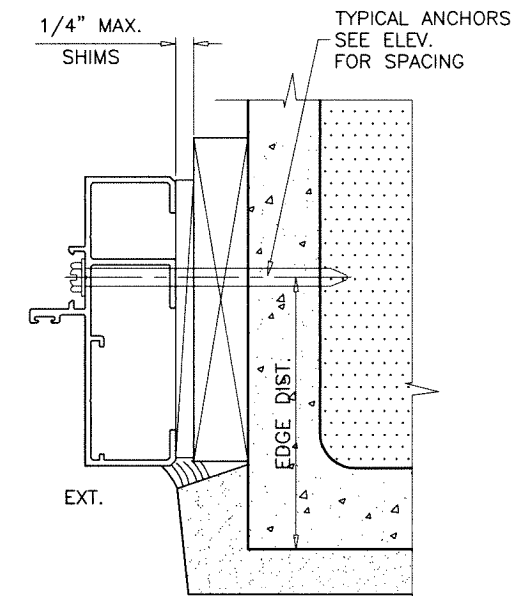
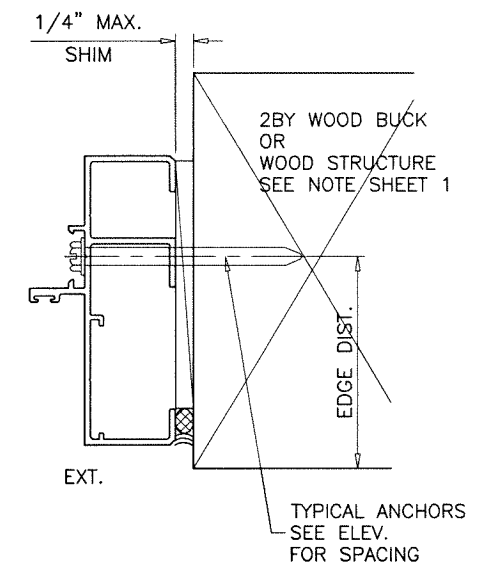
dr. by: TARIQ

chk. by:

drawing no.

23-29F

sheet 4 of 7



date: 06-26-23

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

revisions:

no	date	description

drawing no.

23-29F

sheet 5 of 7

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COMP-ANL\23-29F-MG

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E3008	AS REQD.	DOOR FRAME HEAD/SILL	6063-T6	-
2	E1018	AS REQD.	FRAME COVER	6063-T6	-
3	E3006	AS REQD.	DOOR FRAME JAMB	6063-T6	-
8	E3001	AS REQD.	LEAF TOP & BOTTOM RAIL	6063-T6	-
8A	E3020	AS REQD.	HIGH BOTTOM RAIL	6063-T6	-
9	E3005	AS REQD.	LEAF W'STRIP ADAPTER	6063-T6	-
10	E3002	AS REQD.	HINGE STILE	6063-T6	-
11	E3024	AS REQD.	LOCK STILE	6063-T6	-
12	E3023	AS REQD.	ASTRAGAL STILE	6063-T6	-
13	E3014	AS REQD.	SNAP COVER	6063-T5	-
15	E3015	AS REQD.	SHEAR BLOCK	6063-T6	3" LONG
15A	E3019	AS REQD.	SHEAR BLOCK	6063-T6	3" LONG
16	E3016	AS REQD.	SHEAR BLOCK NUT	6063-T6	3" LONG
16A	E3016	2/ HINGE	HINGE BACK-UP PLATE	6063-T6	8-1/2" LONG @ FRAME, 4-3/4" LONG @ LEAF
17	E9001	AS REQD.	GLAZING BEAD (LAM. GLASS)	6063-T6	-
17A	E9002	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
17B	E9003	AS REQD.	GLAZING BEAD (CLADDED PANEL)	6063-T6	-
18	E3012	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	-
19	G30-01	AS REQD.	INTERIOR GLAZING SPACER	SANTOPRENE	DUROMETER 70±5 SHORE A
20	G10-04	AS REQD.	EXTERIOR GLAZING GASKET	SANTOPRENE	DUROMETER 70±5 SHORE A
21	G30-02	AS REQD.	DOUBLE FIN AIR SEAL W'STRIPPING	SANTOPRENE	DUROMETER 70±5 SHORE A
22	W71325NK	AS REQD.	PILE W'STRIPPING	WOOL	ULTRAFAB
23	G10-05	AS REQD.	BULB W'STRIPPING	SANTOPRENE	EPDM
24	-	2/ LITE	SETTING BLOCK, 1/8" X 1" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 80±5
26	#12 X 1-1/2"	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	HWH SMS
27	3/8 X 1"	AS REQD.	SHEAR BLOCK FASTENERS	ST. STEEL	HEX SOCKET HEAD SCREWS
28	#12 X 1-1/2"	AS REQD.	SHEAR BLOCK FASTENERS	ST. STEEL	HWH SMS
29	E3026	AS REQD.	WINDOW FRAME	6063-T6	-
30	E3027	AS REQD.	WINDOW FRAME COVER	6063-T6	-
31	A60-04	1/ CORNER	FRAME ALIGNMENT KEY	ST. STEEL	-
32	G25-01	AS REQD.	WINDOW GLAZING SPACER	SANTOPRENE	DUROMETER 70±5 SHORE A
33	-	2/LITE	SETTING BLOCK	-	AT 6" FROM EACH END
34	#8 X 1/2"	AS REQD.	WINDOW INSTALLATION SCREWS, AT 3" FROM ENDS & 12" O.C. MAX.	-	PH PH SMS

LOCKS:

ACTIVE LEAF:

MULTI POINT LOCK ASSEMBLY DL01-6065 BY 'INTERLOCK USA INC.'
(3) LOCKING POINTS ENGAGING AT JAMB STRIKE PLATE
LOCATED AT 22", 39" AND 54-1/2" FROM BOTTOM
1/2" DIA. BOLTS WITH 5/8" THROW
(1) AT TOP ENGAGING FRAME HEAD AND
(1) AT BOTTOM ENGAGING FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK HANDLE LOCATED AT 42-1/2" FROM BOTTOM

INACTIVE LEAF:

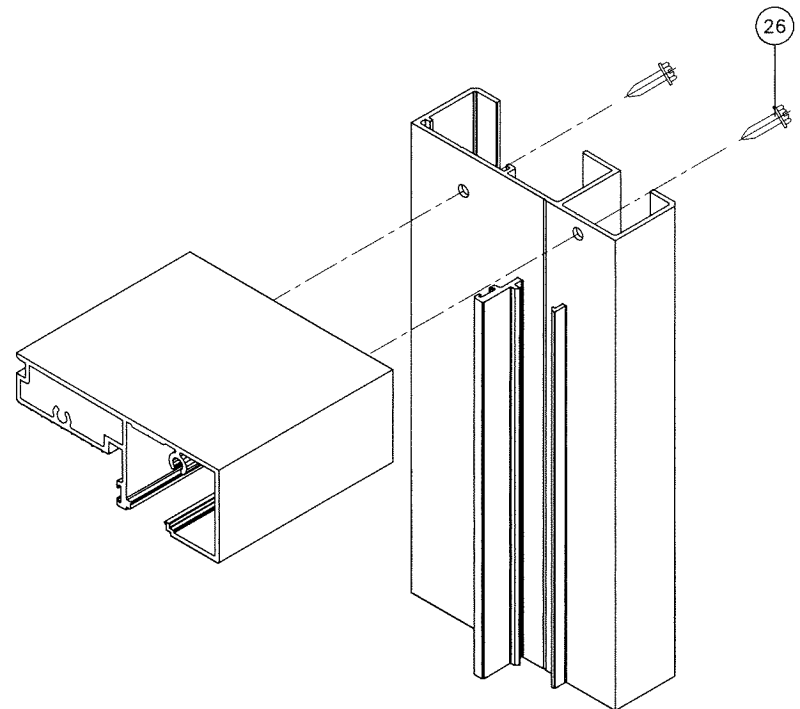
2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.'
1/2" DIA. BOLTS WITH 5/8" THROW AT TOP AND BOTTOM ENGAGING
FRAME HEAD AND FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK LOCATED AT 42-1/2" FROM BOTTOM

SEALANTS:

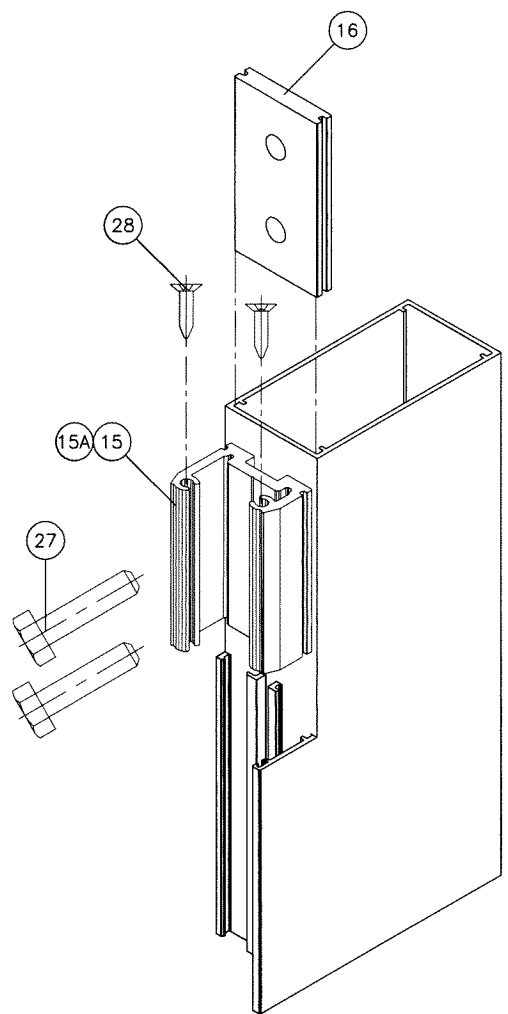
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH
WHITE/ALUMINUM COLORED SILICONE.

HINGES:

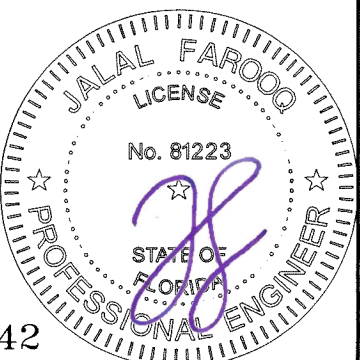
4" X 4-1/2" ST. STEEL BALL BEARING HINGES BY 'REGENT/IDH'
(3) FOR DOORS UPTO 98" HEIGHTS
(4) FOR DOORS UPTO 120" HEIGHTS
(5) FOR DOORS ABOVE 120" HEIGHTS
TOP AND BOTTOM HINGES AT 6-5/8" FROM ENDS
INTERMEDIATE HINGES EQUALLY SPACED
FASTENED TO FRAME WITH
(4) #12 X 1/2" FH SELF DRILLING SCREWS
FASTENED TO LEAF WITH
(4) #12 X 1/2" FH SELF DRILLING SCREWS



DOOR FRAME CORNER



LEAF CORNER



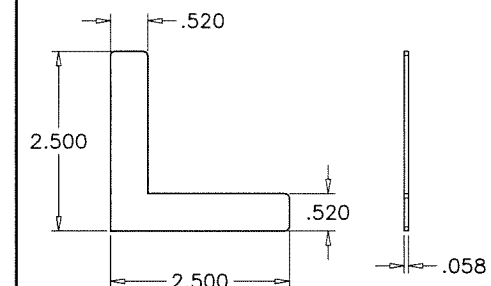
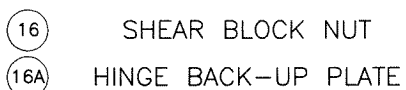
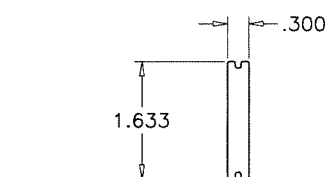
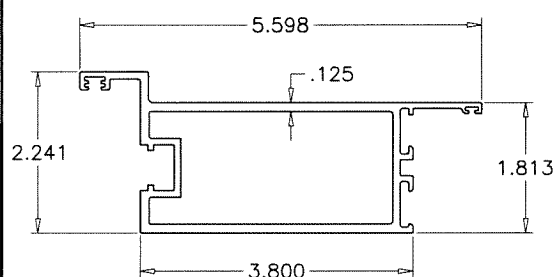
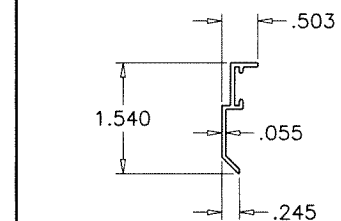
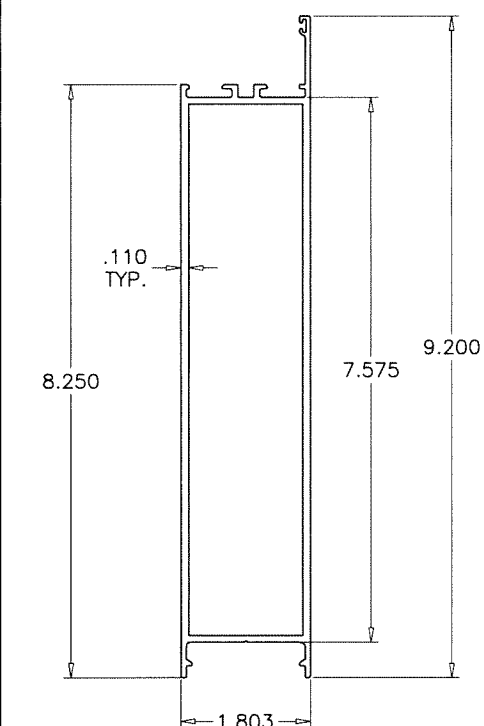
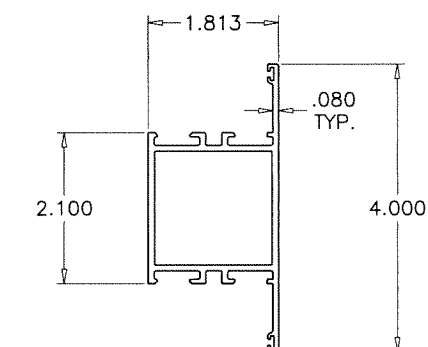
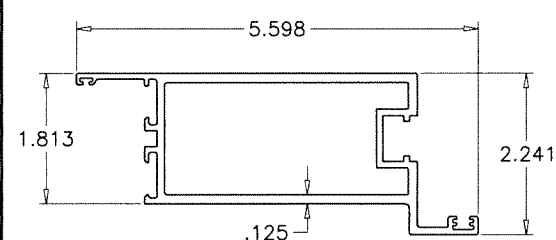
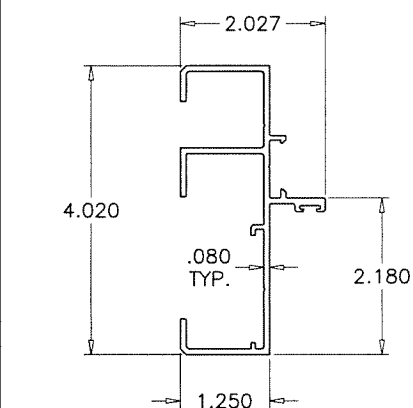
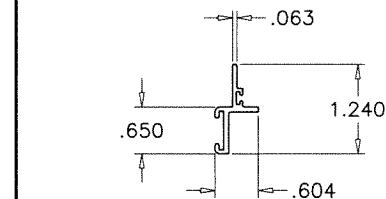
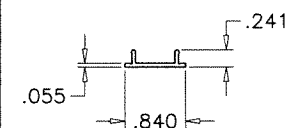
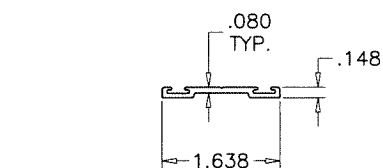
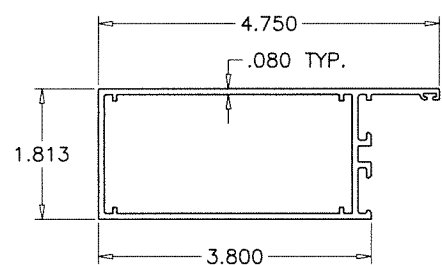
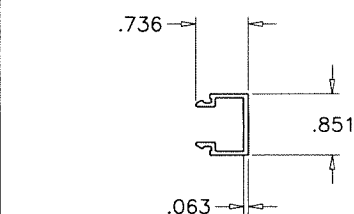
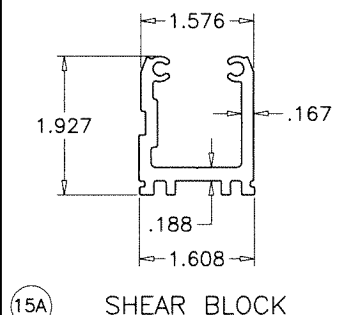
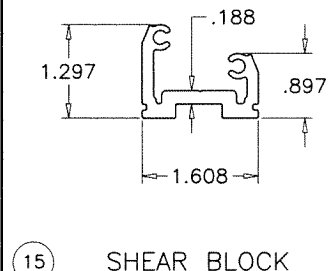
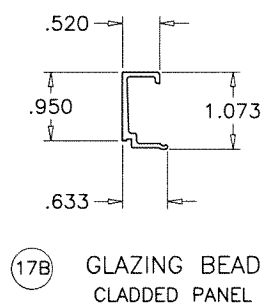
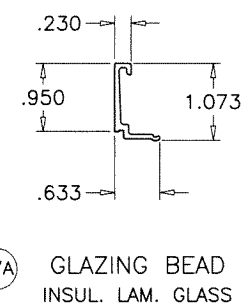
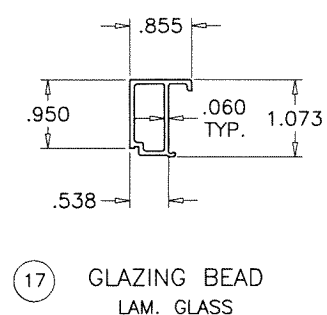
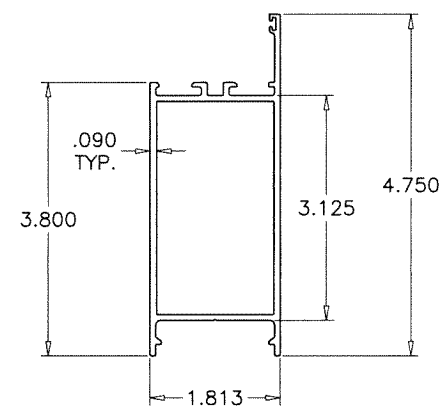
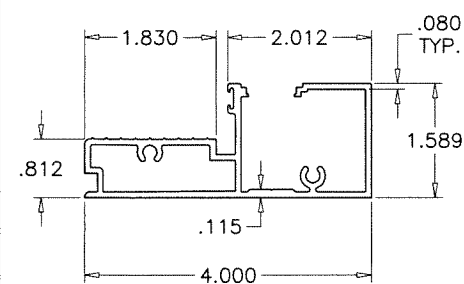
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FL #26942

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AL-FAROOQ CORPORATION
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MG3500 RESIDENTIAL OUTSWING DOOR (L.M.I.)
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8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:
no date by description
date: 06-26-23
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:
drawing no.
23-29F
sheet 6 of 7



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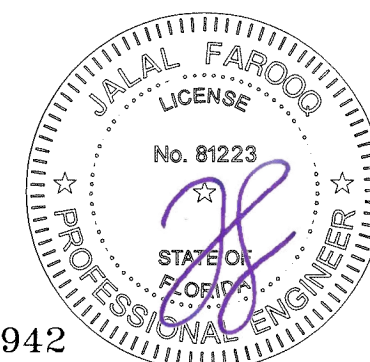
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23-29F

sheet 7 of 7

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