

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

HS38 Seamless
ALUMINUM SLIDING GLASS DOOR

DESIGN LOAD RATING FOR THESE DOORS TO BE AS PER CHARTS
SHOWN ON SHEET 2 AND APPROVED CONFIGURATIONS SHOWN
ON SHEET 3.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE 2023 (8TH 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.

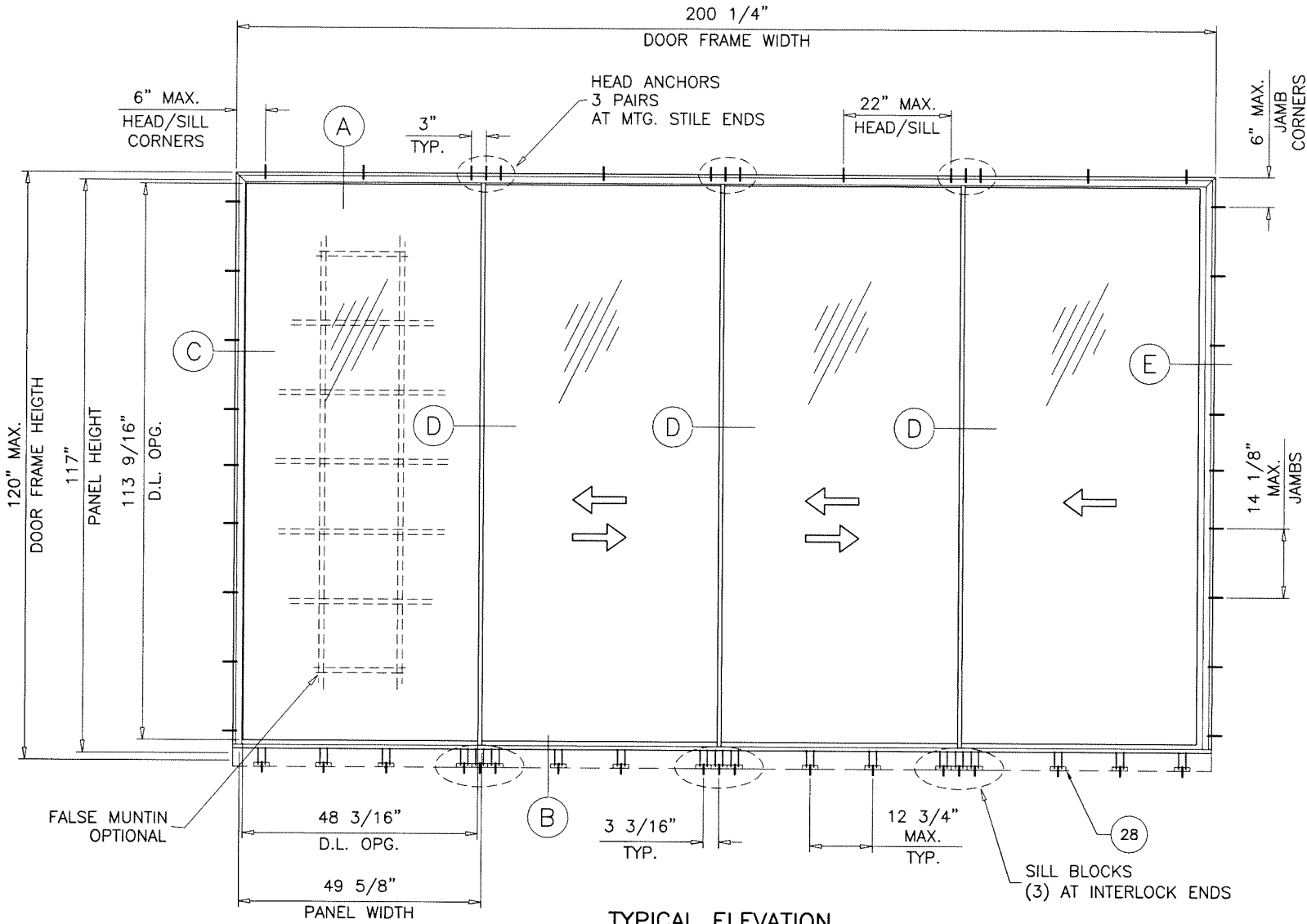
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 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.
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.



TYPICAL ELEVATION

STD. INTERLOCKS, GLASS TYPE 'A'

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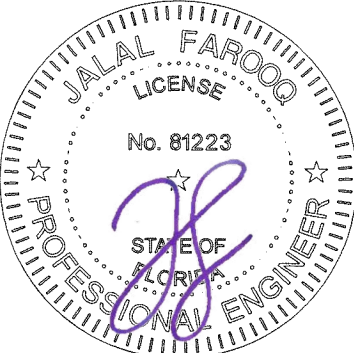
FL #47320

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.

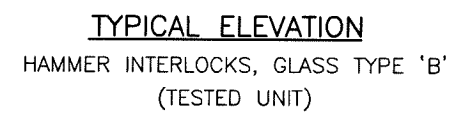
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\20-10F-0US

HS38 Seamless ALUM SLIDING GLASS DOOR (L.M.I.)
TITONI WINDOWS
1113 N. McKinley Ave.
Los Angeles, CA 90059
Tel. (310) 954-1516 www.titoniwindows.com

revisions:		no	date	by	description
date:	02-10-20	A	08.14.23		UPDATED TO 2023 FBC
		B	01.30.24		GLASS TYPE B ADDED
		C	10.07.25		GENERAL REVISION
scale:	3/8"=1'-0"				
dr. by:	TARIQ				
chk. by:					
drawing no.		20-10F			
sheet		1 of 8			



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sheet 1.1 of 8

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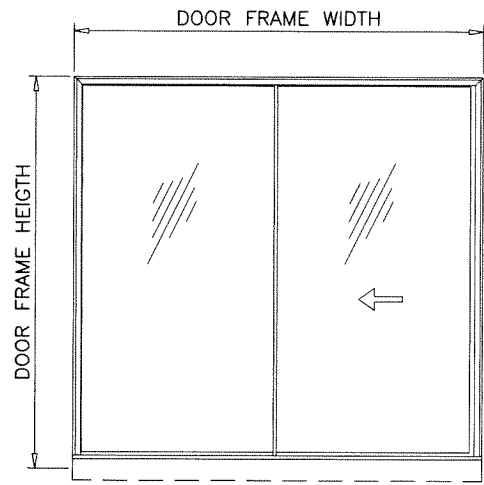
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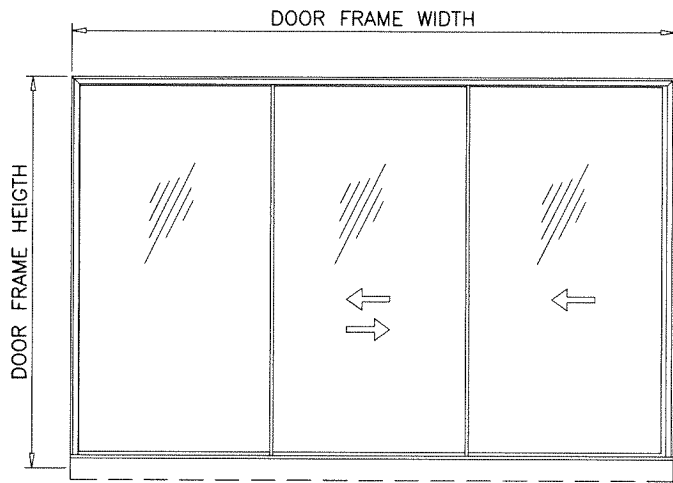
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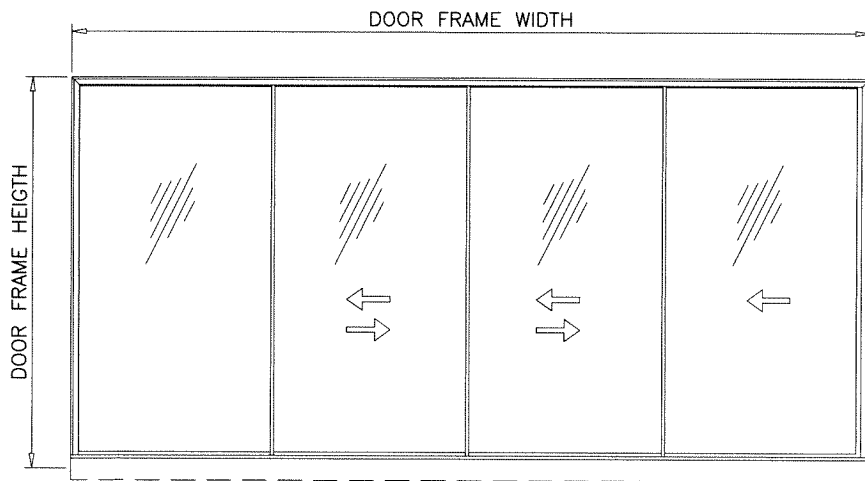
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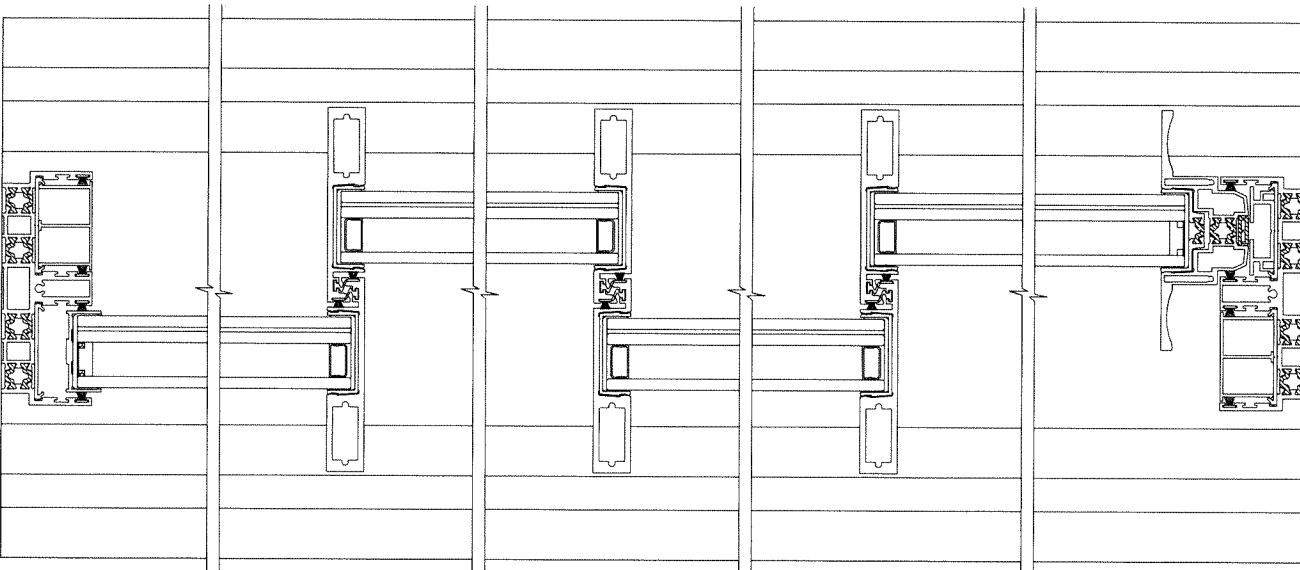
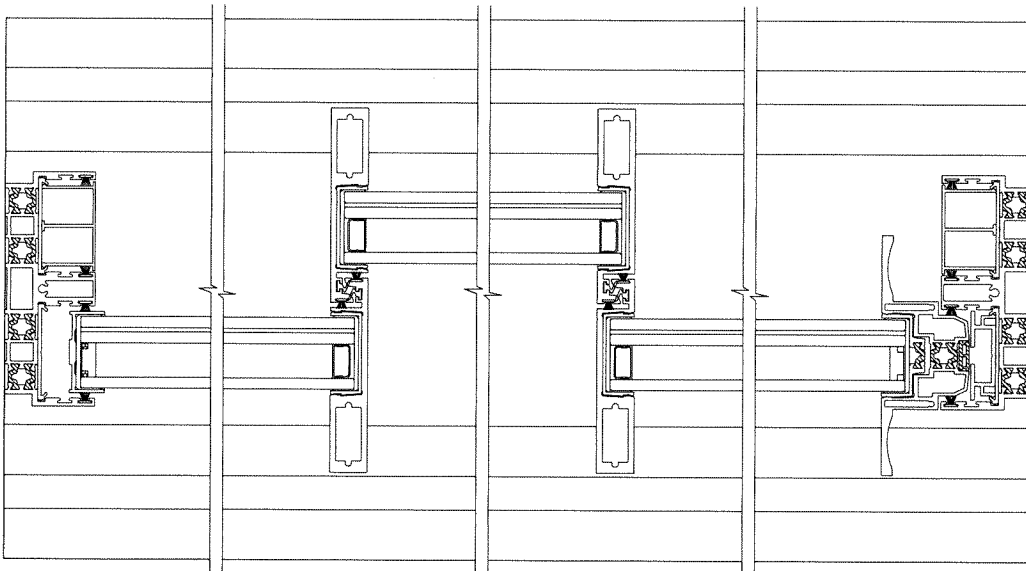
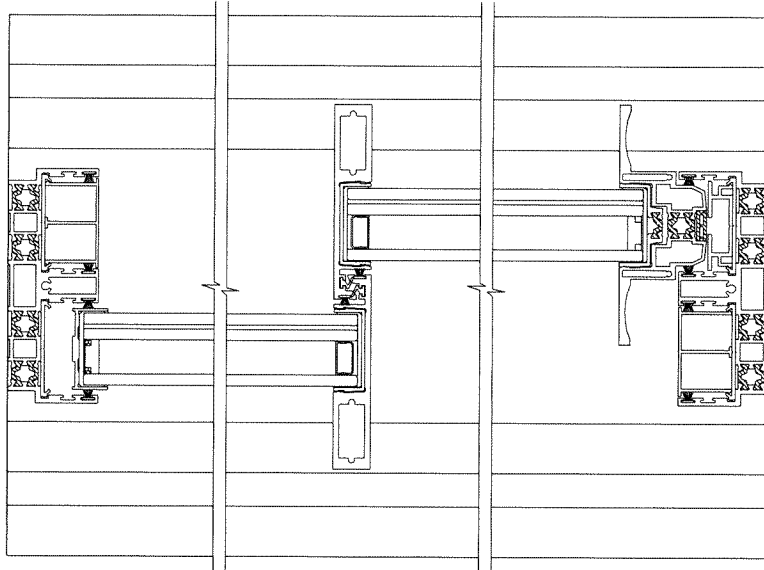


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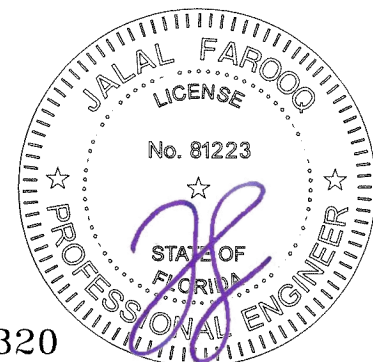
APPROVED CONFIGURATIONS



- NOTE:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 2.
 3. FOR ANCHOR DETAILS SEE SHEETS 4 AND 5.

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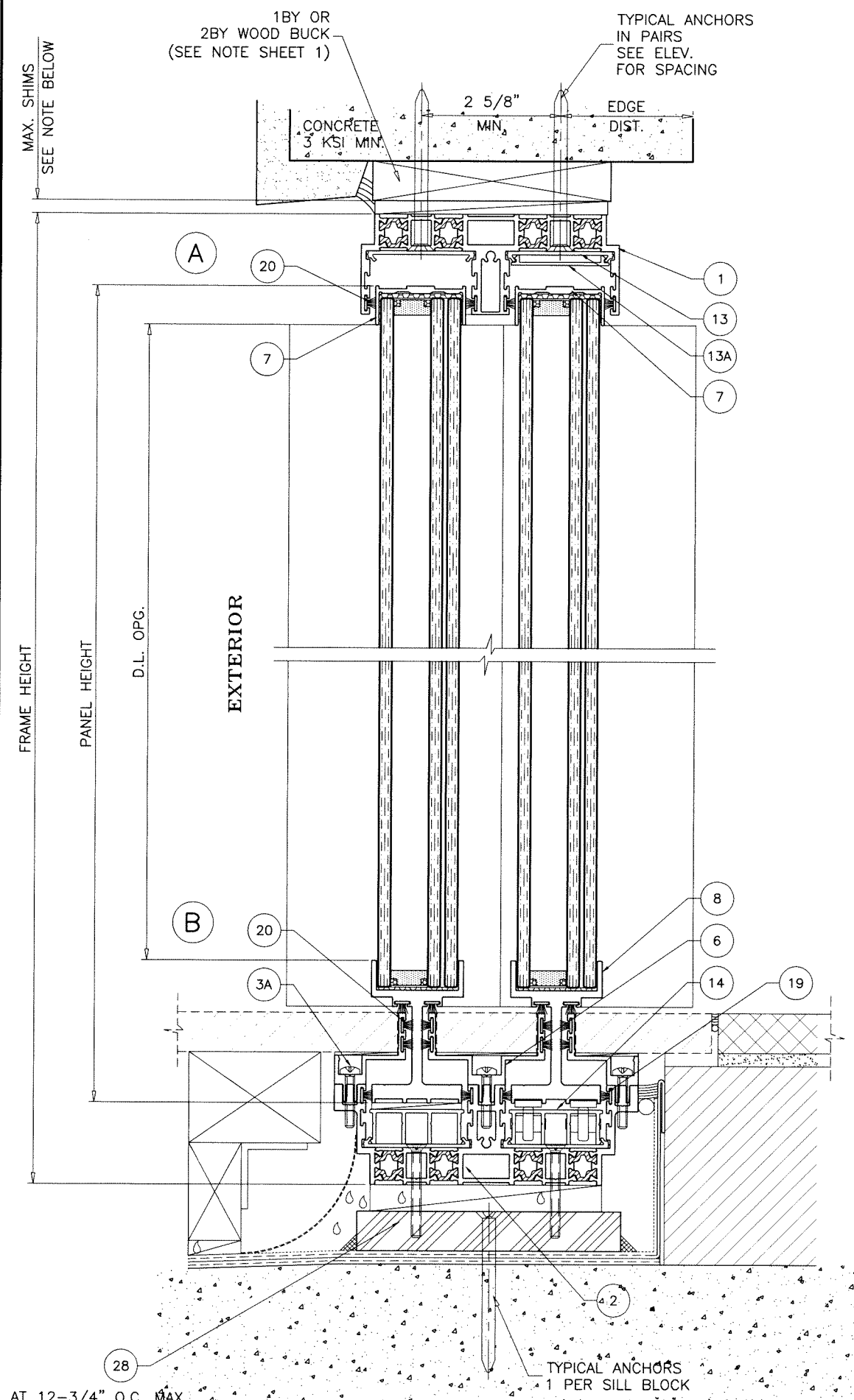
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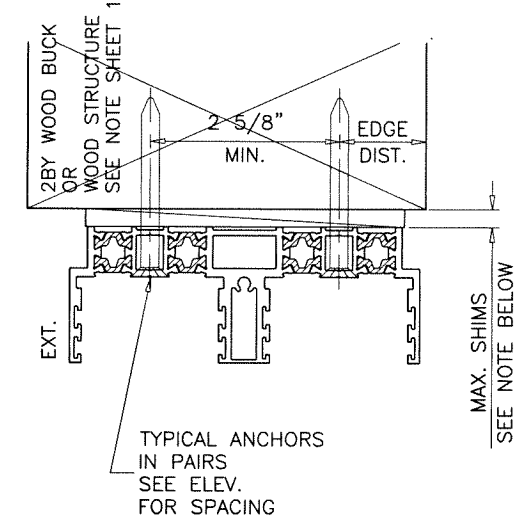
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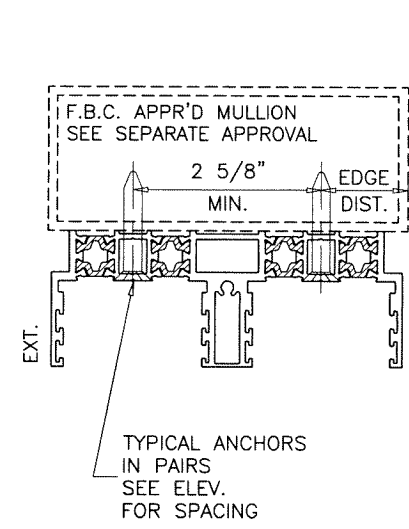
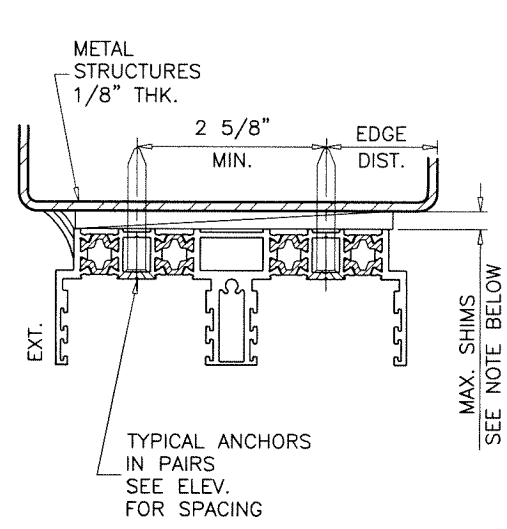
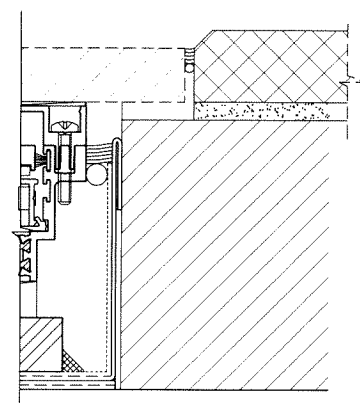
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AT 12-3/4" O.C. MAX.
 (3) AT INTERLOCK ENDS FOR PANEL AREA UP TO 41.7 SQ. FT.
 (5) AT INTERLOCK ENDS FOR PANEL AREA ABOVE 41.7 SQ. FT.



MAX. SHIM SPACE AT HEAD:
 1/2" MAX. SHIMS FOR LOADS UPTO 36.5 PSF
 1/4" MAX. SHIMS FOR LOADS ABOVE 36.5 PSF

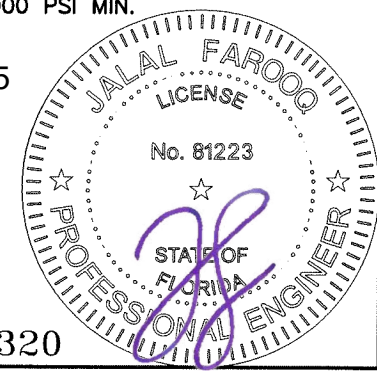


WOOD BUCKS AND METAL STRUCTURE NOT BY 'TITONI WDW.'
 MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
 AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-3/4" MIN. EMBED INTO CONCRETE (SILL)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 AND
 INTO METAL STRUCTURES (HEAD/SILL/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)

CRITICAL EDGE DISTANCE
 INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 1/2" 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.

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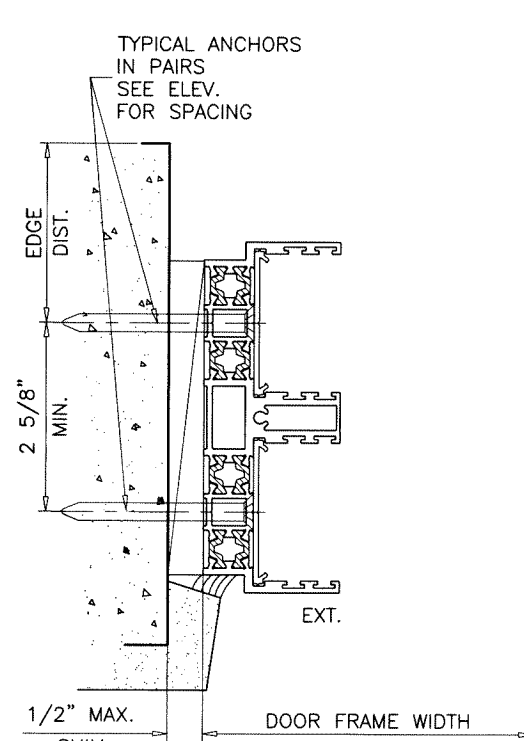
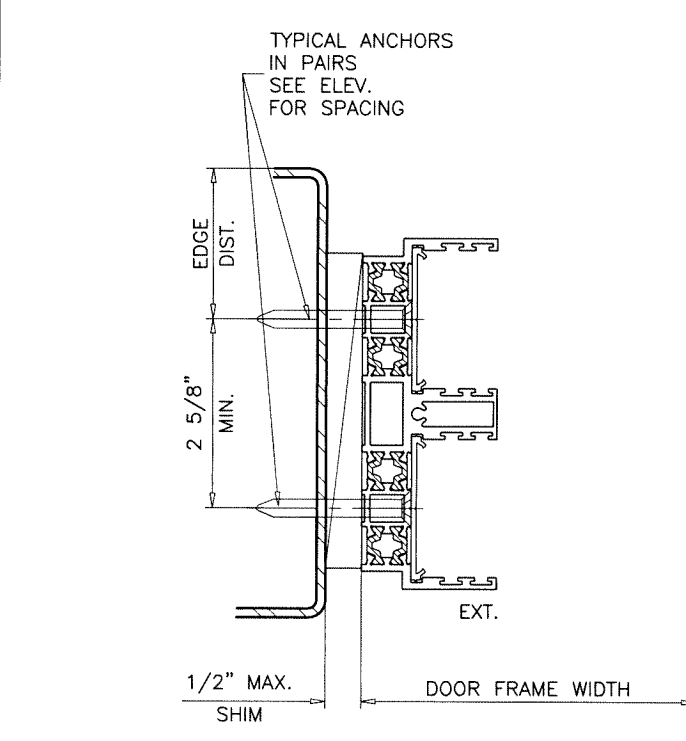
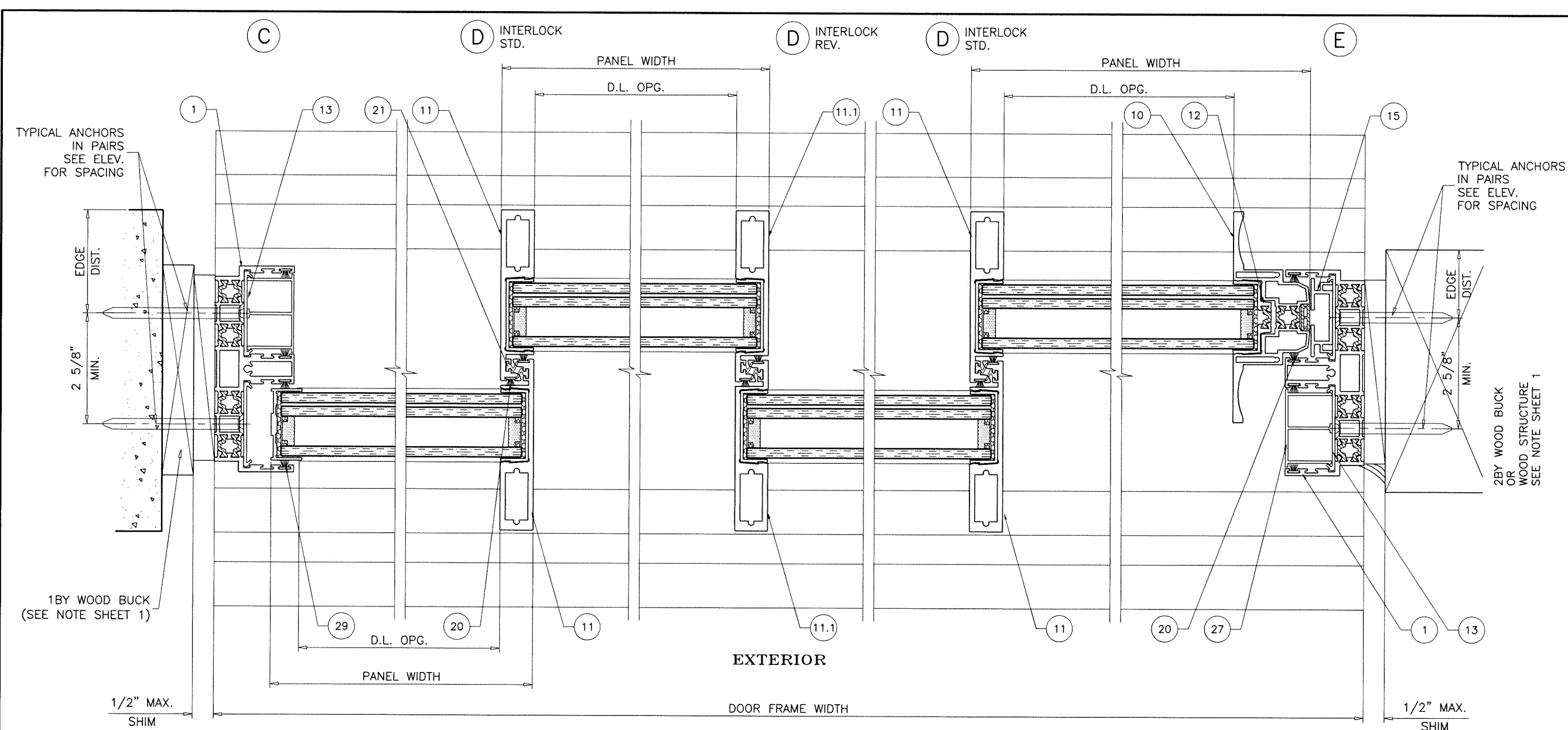
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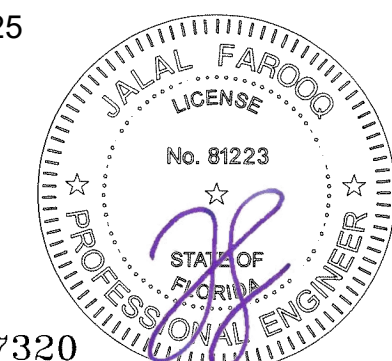
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date:	02-10-20	scale:	3/8" = 1"
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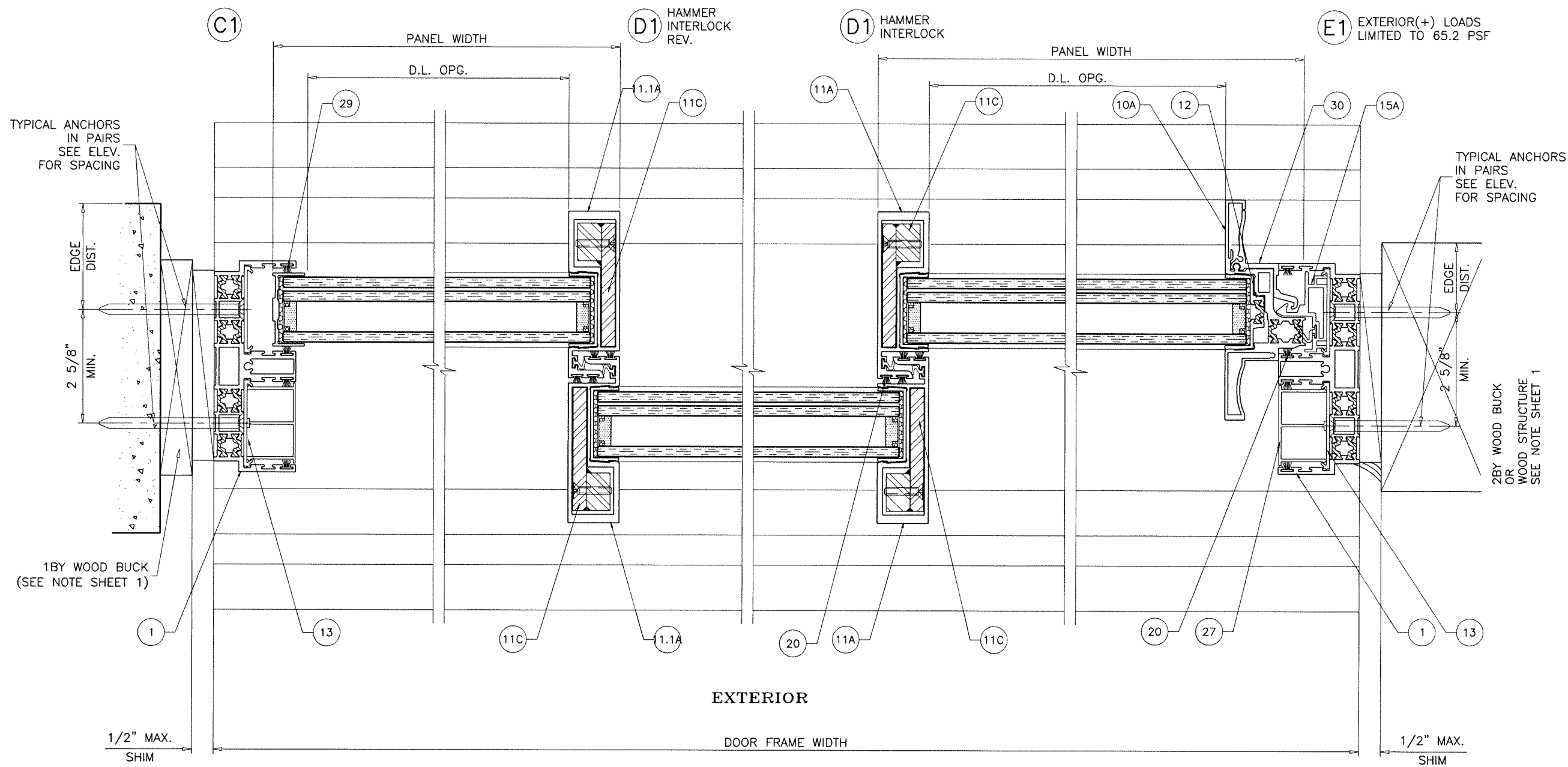
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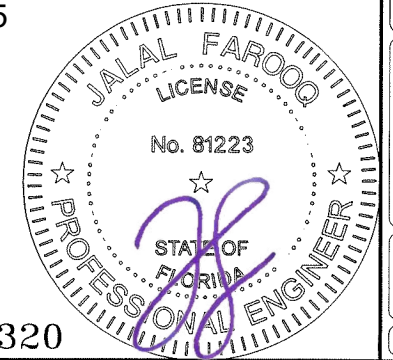


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ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	L65002	3	FRAME HEAD/JAMB	6063-T6	-
2	L65015	1	FRAME SILL	6063-T6	-
6	L65672	1	CENTER SILL INSERT	6063-T6	-
7	L65151	1/ PANEL	TOP RAIL/VERTICAL STILE	6063-T6	-
8	L65671	1/ PANEL	BOTTOM RAIL	6063-T6	-
10	L65103	1/ MOV. PANEL	STD. LOCK STILE	6063-T6	-
10A	-	1/ MOV. PANEL	H.D. LOCK STILE	6063-T6	-
11	L65211	AS REQD.	INTERLOCK (STD.)	6063-T6	-
11A	L65224	AS REQD.	HAMMER INTERLOCK (STD.)	6063-T6	-
11.1	-	AS REQD.	INTERLOCK (REV.)	6063-T6	-
11.1A	L65228	AS REQD.	HAMMER INTERLOCK (REV.)	6063-T6	-
11C	-	AS REQD.	HAMMER INTERLOCK REINFORCING	-	1018 COLD ROLLED STEEL
12	L65152	1	LOCK STILE INSERT	6063-T6	-
13	L20115	AS REQD.	COVER BASE	POLYAMIDE	-
13A	-	AS REQD.	ANCHOR COVER	ALUMINUM	-
14	D00020-1	AS REQD.	FIX. PANEL SHIM	6063-T6	-
15	L65106	1	LOCK STILE CAP	6063-T6	-
15A	-	1	LOCK STILE CAP	6063-T6	-
16	-	1	MORTISE LOCK	-	-
17	-	1	LOCK KEEPER	-	-
18	-	2/ MOV. PANEL	TANDEM STEEL WHEELS	-	-
19	PL 01	AS REQD.	FIN SEAL W'STRIPPING	POLYPROPYLENE	-
20	PL 03	AS REQD.	FIN SEAL W'STRIPPING	POLYPROPYLENE	-
21	VD 04	AS REQD.	LEAF W'STRIPPING	EPDM	-
22	-	-	FRAME ASSEMBLY FASTENERS	ST. STEEL	-
23	-	-	PANEL ASSEMBLY FASTENERS	ST. STEEL	-
24	-	2/ LITE	SETTING BLOCK AT 1/4 POINTS	HIGH IMPACT PLASTIC	DUROMETER 88±5 SHORE A
26	-	2/ CORNER	FRAME CORNER KEY	STEEL	-
27	-	AS REQD.	JAMB CAP	ALUMINUM	-
28	-	AS REQD.	SILL BLOCK AT 12-3/4" O.C. MAX.	6061-T6	3" X 5" X 3/4" THK.
29	-	AS REQD.	FIX. PANEL GASKET	EPDM	-
30	-	AS REQD.	LOCKING BAR	6063-T6	-
31	ES03	AS REQD.	S38 CORNER KEY 26X12mm	STEEL	-

SEALANT:

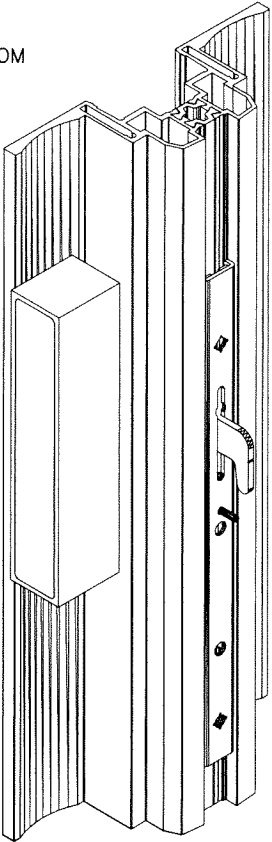
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

LOCK:

SURFACE MOUNT METALLIC HANDLE AT 40-1/2" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) #8-24 X 2-3/4" OH MS

SURFACE MOUNT METALLIC 3 PLY HOOK LOCK AT 40" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) #12-24 X 1/2" FH MS

SURFACE MOUNT METALLIC KEEPER AT 40" FROM BOTTOM FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH (2) #10 X 1" PH SDS



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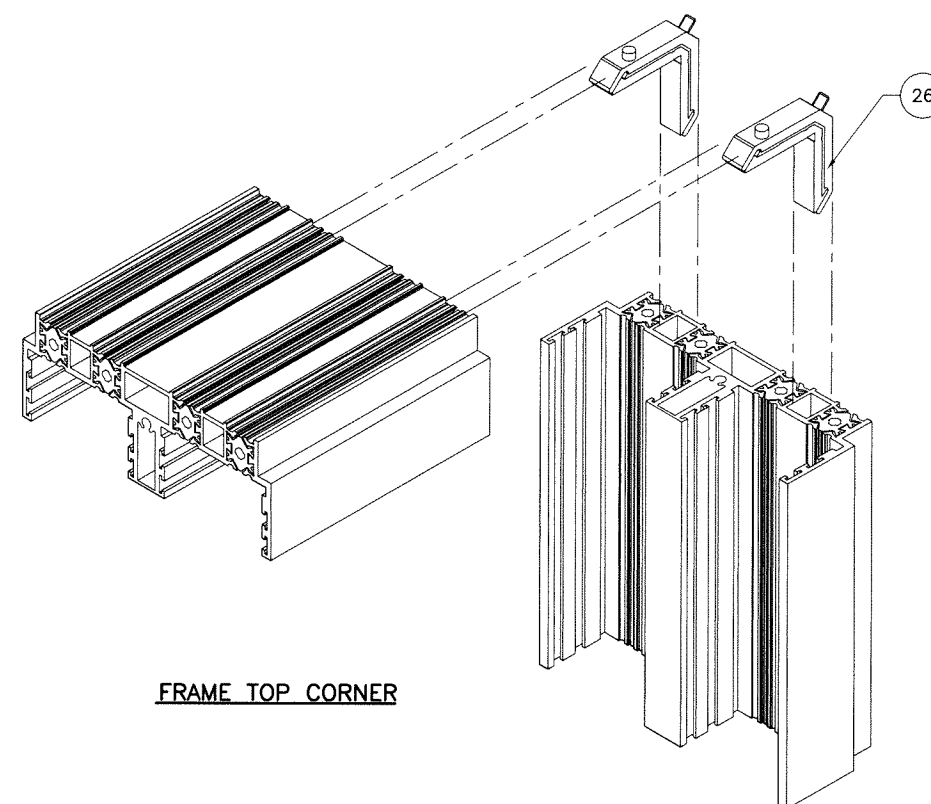
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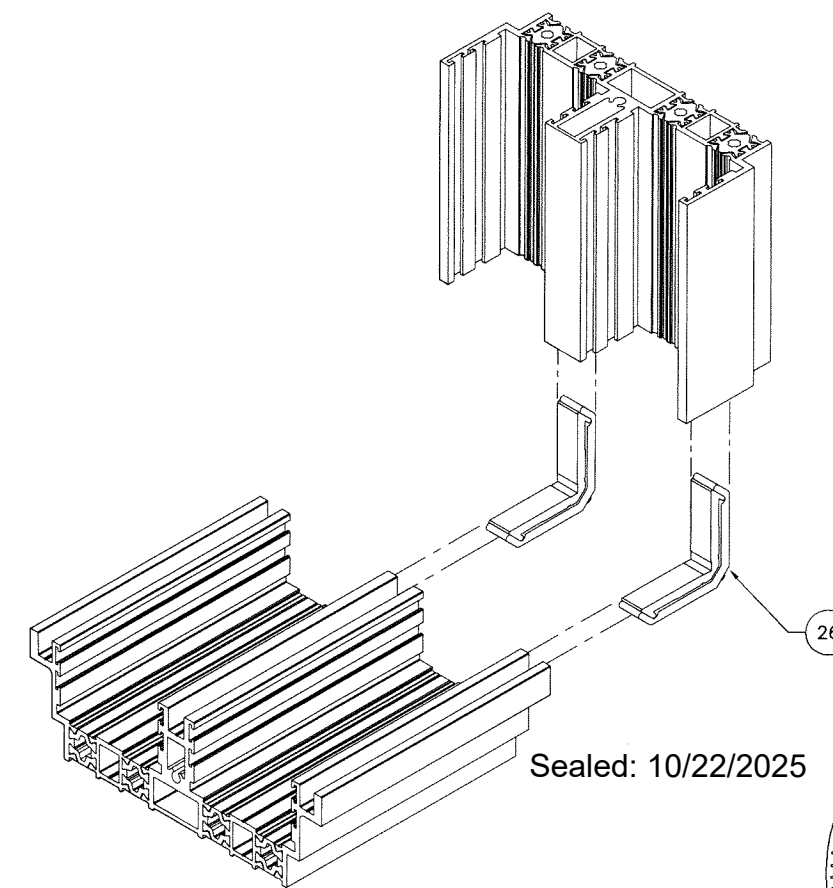
PROFESSIONAL ENGINEER

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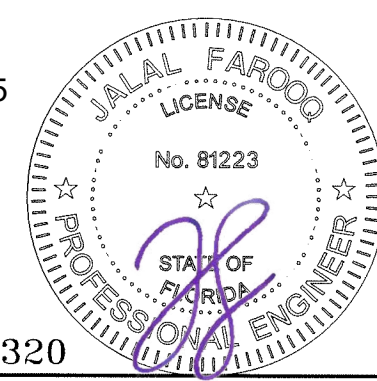


FRAME TOP CORNER



FRAME BOTTOM CORNER

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