

DOOR DESIGN LOAD CAPACITY - PSF													
ANCHOR TYPE		ANCHORS TYPE 'A'						ANCHORS TYPE 'B'					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	4 PAIRS AT INTERLOCK ENDS		6 PAIRS AT INTERLOCK ENDS		8 PAIRS AT INTERLOCK ENDS		4 PAIRS AT INTERLOCK ENDS		6 PAIRS AT INTERLOCK ENDS		8 PAIRS AT INTERLOCK ENDS	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	78	53.3	53.3	60.0	60.0	60.0	60.0	52.4	52.4	60.0	60.0	60.0	60.0
42		48.1	48.1	60.0	60.0	60.0	60.0	47.3	47.3	60.0	60.0	60.0	60.0
48		44.4	44.4	60.0	60.0	60.0	60.0	43.6	43.6	60.0	60.0	60.0	60.0
52		42.6	42.6	60.0	60.0	60.0	60.0	41.8	41.8	60.0	60.0	60.0	60.0
54		41.8	41.8	60.0	60.0	60.0	60.0	41.1	41.1	60.0	60.0	60.0	60.0
60		40.0	40.0	60.0	60.0	60.0	60.0	39.3	39.3	58.9	58.9	60.0	60.0
36	84	48.5	48.5	60.0	60.0	60.0	60.0	47.6	47.6	60.0	60.0	60.0	60.0
42		43.5	43.5	60.0	60.0	60.0	60.0	42.8	42.8	60.0	60.0	60.0	60.0
48		40.0	40.0	60.0	60.0	60.0	60.0	39.3	39.3	58.9	58.9	60.0	60.0
52		38.2	38.2	57.3	57.3	60.0	60.0	37.5	37.5	56.3	56.3	60.0	60.0
54		37.4	37.4	56.1	56.1	60.0	60.0	36.8	36.8	55.1	55.1	60.0	60.0
36	90	44.4	44.4	60.0	60.0	60.0	60.0	43.6	43.6	60.0	60.0	60.0	60.0
42		39.8	39.8	59.6	59.6	60.0	60.0	39.0	39.0	58.6	58.6	60.0	60.0
48		36.4	36.4	54.5	54.5	60.0	60.0	35.7	35.7	53.6	53.6	60.0	60.0
52		34.6	34.6	51.9	51.9	60.0	60.0	34.0	34.0	51.0	51.0	60.0	60.0
54		33.9	33.9	50.8	50.8	60.0	60.0	33.3	33.3	49.9	49.9	60.0	60.0
36	96	41.0	41.0	60.0	60.0	60.0	60.0	40.3	40.3	60.0	60.0	60.0	60.0
42		36.6	36.6	54.9	54.9	60.0	60.0	35.9	35.9	53.9	53.9	60.0	60.0
48		33.3	33.3	50.0	50.0	60.0	60.0	32.7	32.7	49.1	49.1	60.0	60.0
52		31.6	31.6	47.5	47.5	60.0	60.0	31.1	31.1	46.6	46.6	60.0	60.0

AVERAGE PANEL WIDTH = $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$

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

S81 ALUMINUM SLIDING GLASS DOOR (L.M.I.)

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHARTS SHOWN ABOVE.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/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.

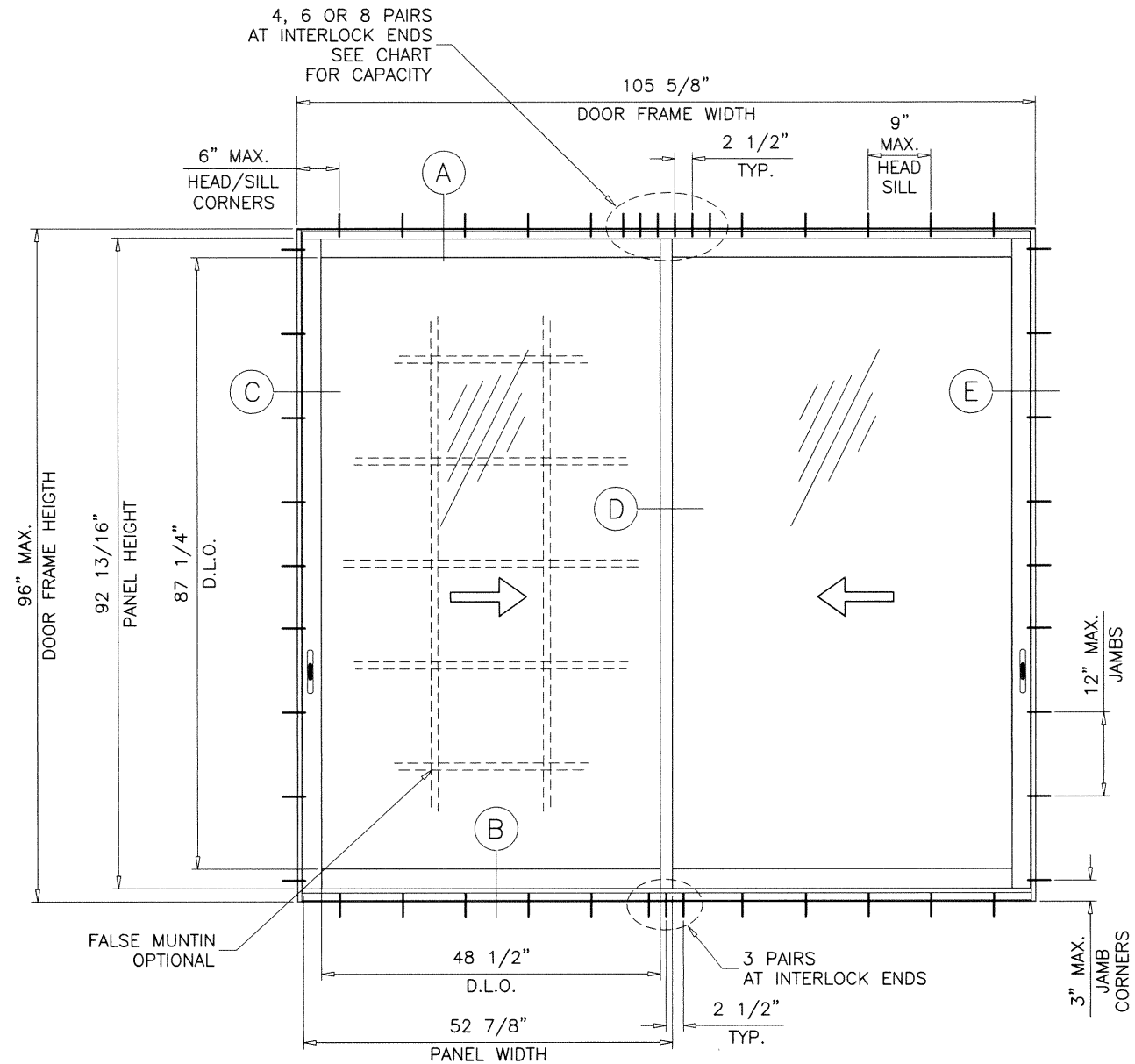
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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.

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



TYPICAL ELEVATION
(xx)

DAYLITE OPENINGS WIDTHS:
PANEL WIDTH - 4.375"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT - 5.563"

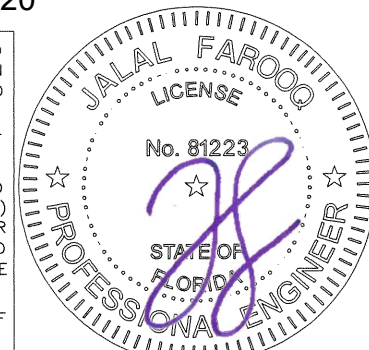
PANEL HEIGHT = DOOR FRAME HEIGHT - 3.188"

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

Sealed: 12/18/2020

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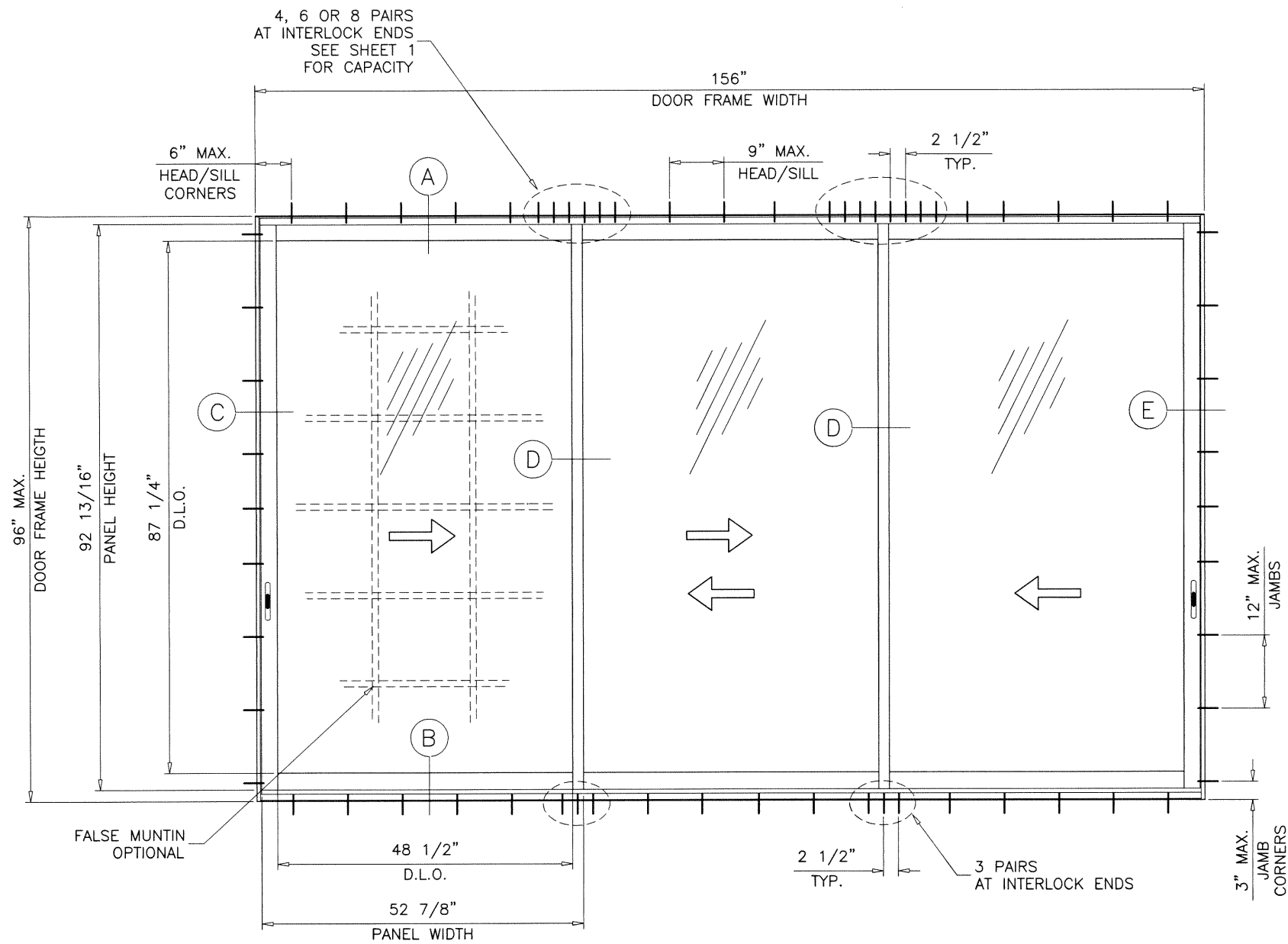
A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
C- SITE 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.



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MIAMI, FLORIDA 33173
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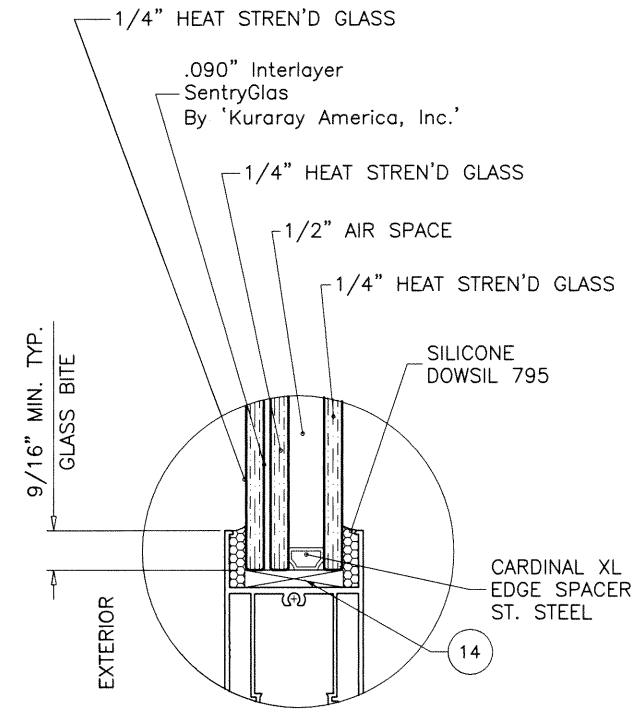
S81 ALUMINUM SLIDING GLASS DOOR (L.M.I.)
Panda Windows & Doors, LLC
3415 Bellington Road
N. Las Vegas, NV 89030
Phone: (702) 643-5700 Fax: (702) 643-5715

revisions:
no date by description
A 12.17.20 by description UPDATED TO 2020 FBC
date: 01-18-19
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:
drawing no.
19-03F
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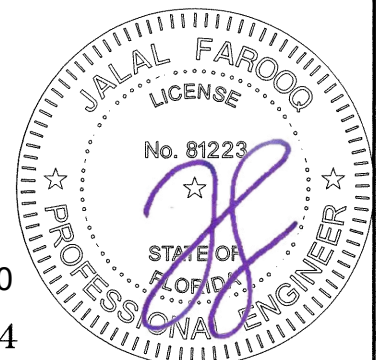
TYPICAL ELEVATION

TESTED UNIT



GLAZING DETAIL

1-5/16" OVERALL LAM. INSUL. GLASS



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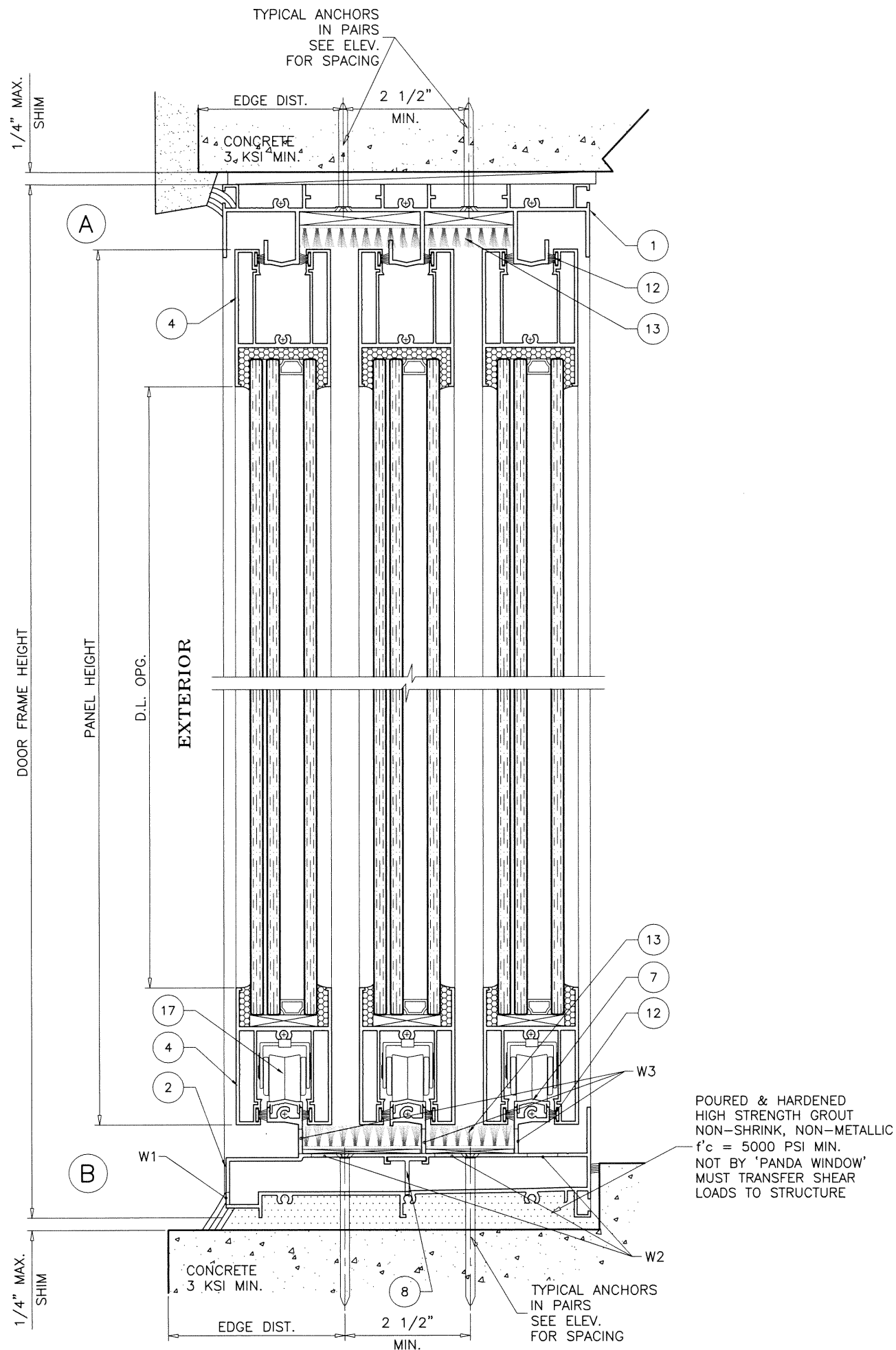
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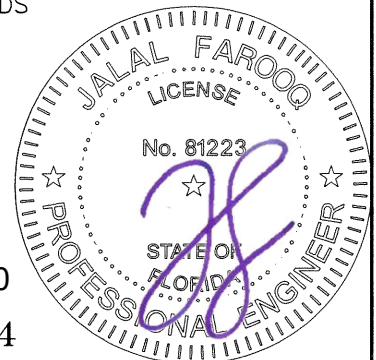
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WEEPHOLES:

- W1 = 1-1/2 X 1/4" WEEP HOLES WITH PLASTIC WEEP FLAPS AT 6" FROM EACH END AND AT MID WIDTH.
- W2 = 5/8" DIA. WEEP HOLES AT 5" FROM ENDS AND 24" O.C.
- W3 = 1/2" DIA. WEEP HOLES AT 3" FROM ENDS AND 6" O.C.

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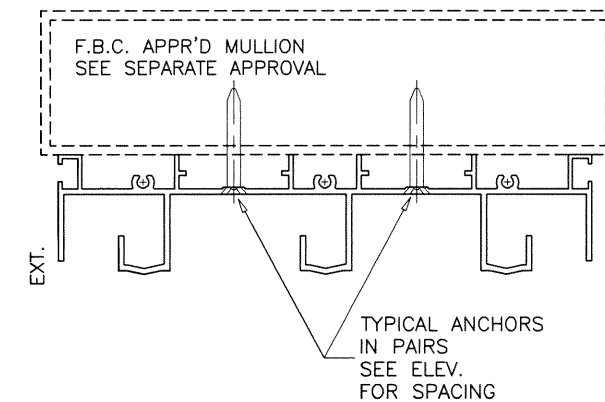
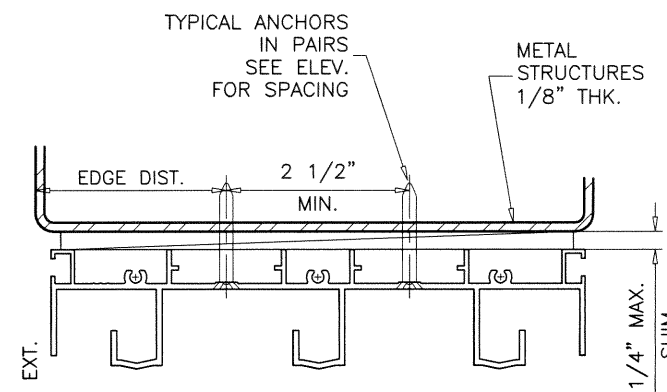
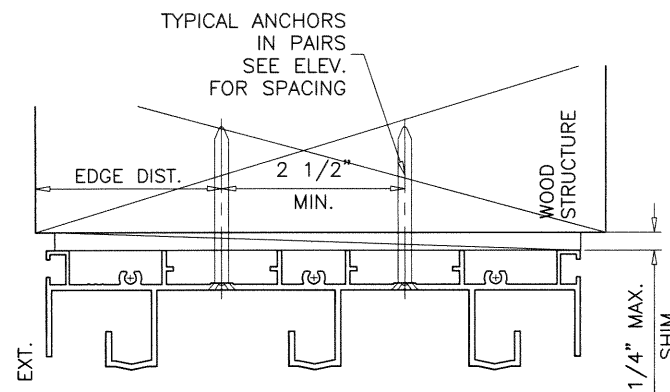
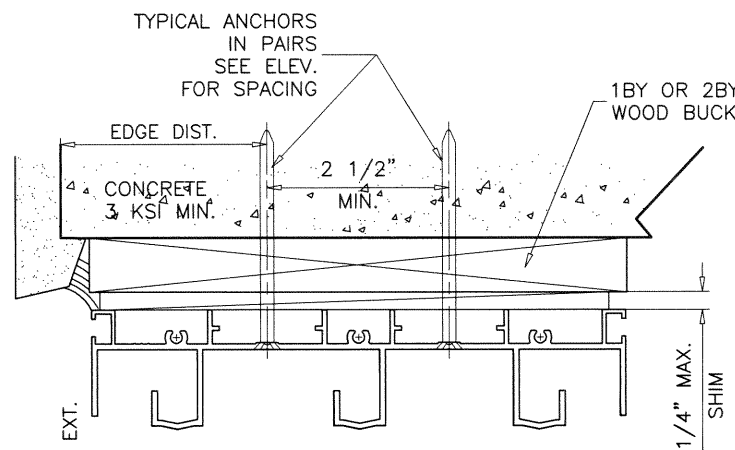
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1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'PANDA WINDOWS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 3/16" DIA. ULTRA CON+ BY 'DEWALT' (Fu=164 KSI, Fy=117 KSI)

INTO WOOD STRUCTURES

1-3/4" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

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

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

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

DIRECTLY INTO CONCRETE OR BLOCKS

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

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

TYPE 'B' - #10 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. (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.

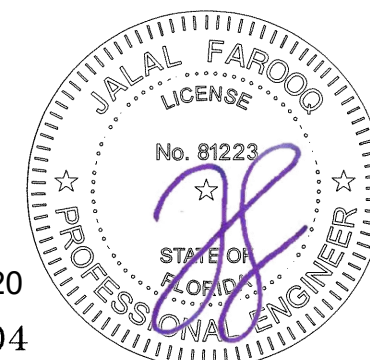
INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 1/2" MIN.

WOOD AT HEAD 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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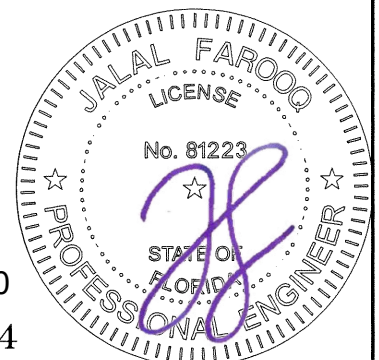
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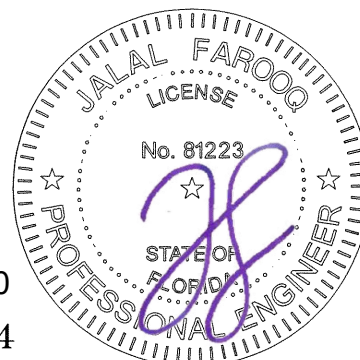
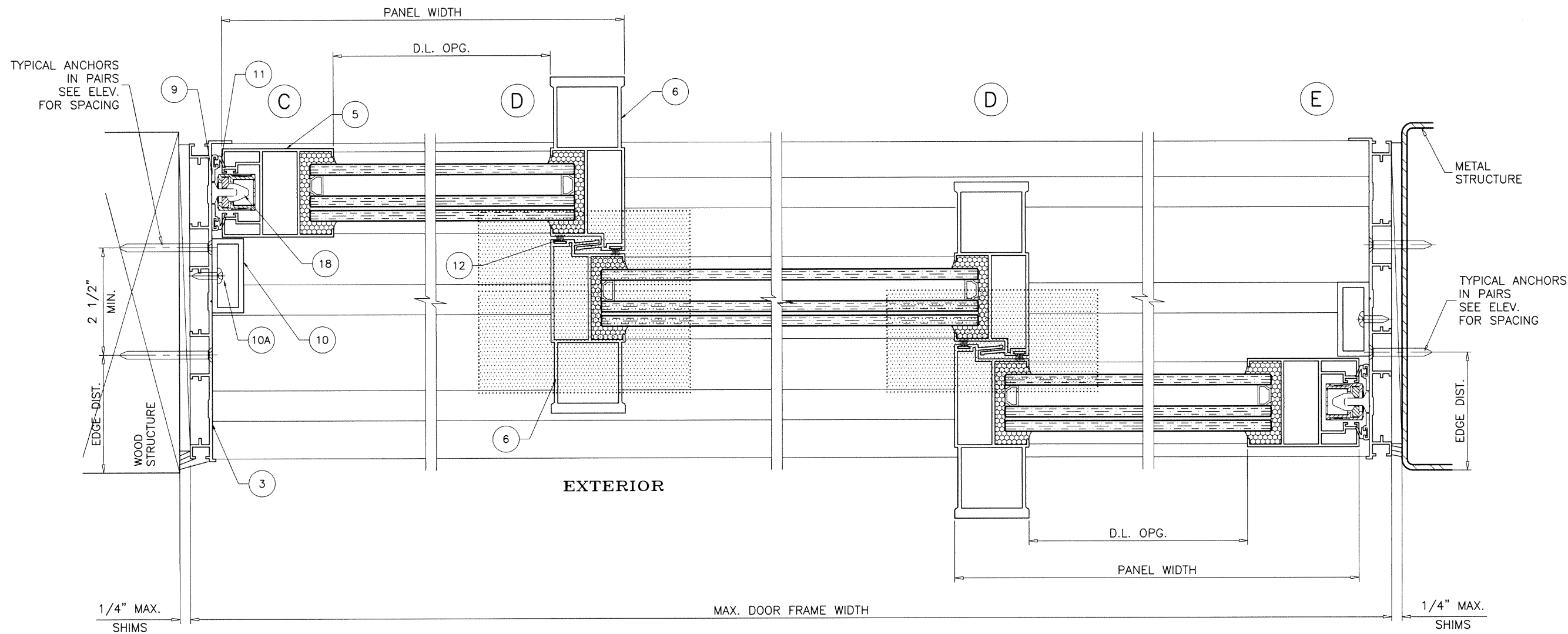
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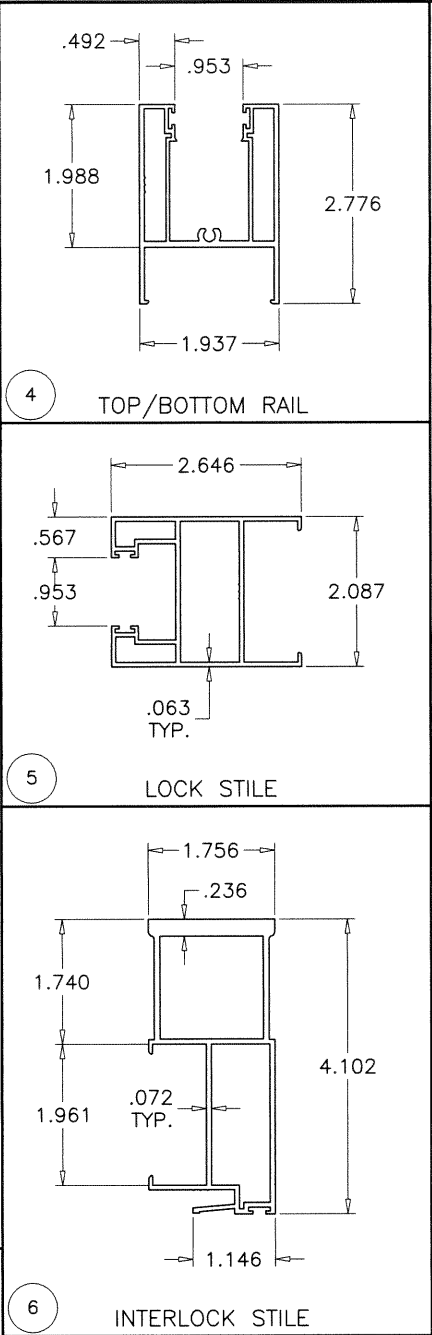
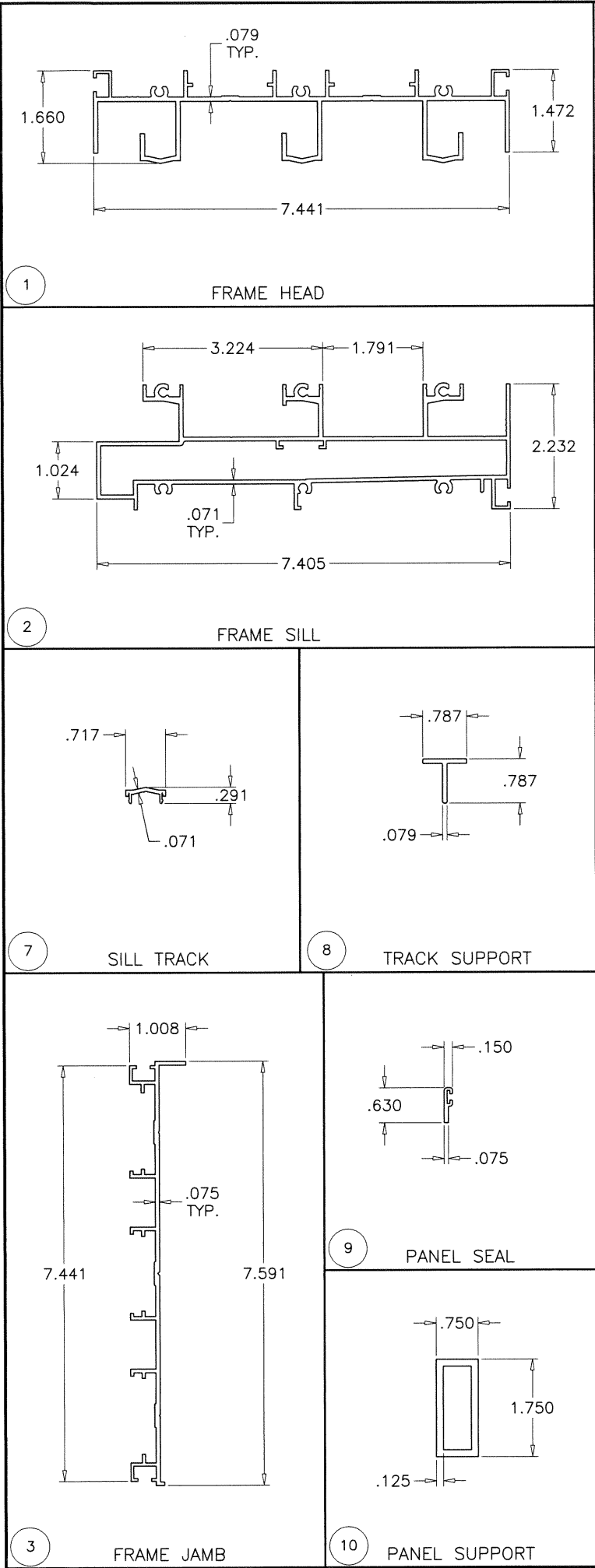
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ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	05908	1	FRAME HEAD	6063-T5	-
2	05906	1	FRAME SILL	6063-T5	-
3	05910	2	FRAME JAMB	6063-T5	-
4	05932	AS REQD.	TOP/BOTTOM RAIL	6063-T5	-
5	05897	AS REQD.	LOCK STILE	6063-T5	-
6	05898	AS REQD.	INTERLOCK STILE	6063-T5	-
7	05861	AS REQD.	SILL TRACK	6063-T5	-
8	04018	AS REQD.	SILL TRACK SUPPORT	6063-T5	-
9	05861	AS REQD.	PANEL SEAL	6063-T5	-
10	18826	AS REQD.	PANEL SUPPORT	6063-T5	-
10A	#10 X 1/2"	AS REQD.	TUBE FASTENERS (AT 1" FROM ENDS & 9" O.C.)	ST. STEEL	PH SMS
11	5131	AS REQD.	JAMB W'STRIPPING	VINYL	WIP
12	3843	AS REQD.	BRUSH W'STRIPPING	-	AMESBURY
13	1823	AS REQD.	BRUSH PAD	-	AMESBURY
14	-	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
15	#12 X 1-1/2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	PH SMS
16	#12 X 1"	AS REQD.	PANEL ASSEMBLY FASTENERS	ST. STEEL	PH SMS
17	1605	2/ PANEL	WHEEL ASSEMBLY	-	GU
18	-	-	LOCK	-	GU

SEALANT:

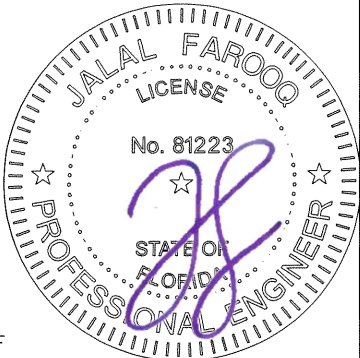
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

LOCKS:

SURFACE MOUNT METALLIC 3 POINT LOCK WITH SINGLE HANDLE OPERATOR AT 39-1/2" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) #10 X 1-1/2" FH SELF DRILLING SCREWS

SURFACE MOUNT METALLIC KEEPERS FACING LOCK AT 8", 46" AND 71" FROM BOTTOM FASTENED TO JAMB WITH (2) #10 X 5/8" FH MS

PLASTIC LEVER OPERATOR WITH 7/16" BRASS BOLT LOCATED AT BOTTOM OF INTERLOCK STILE.



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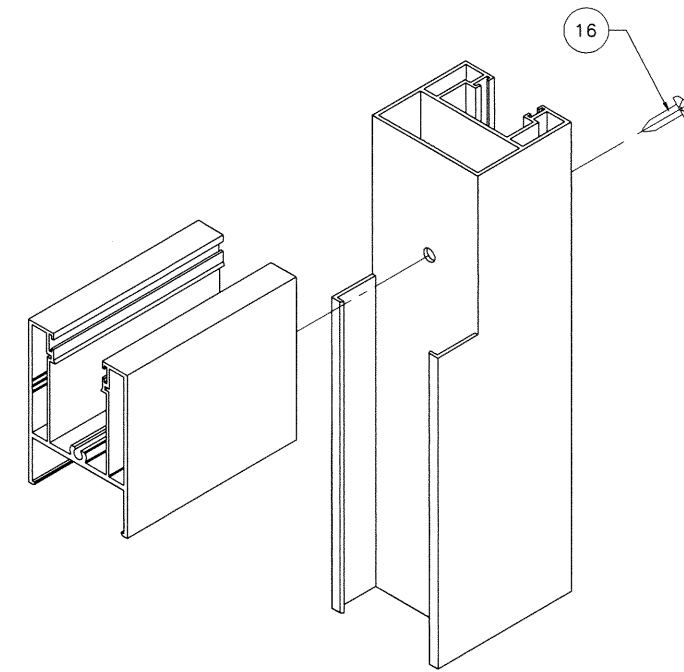
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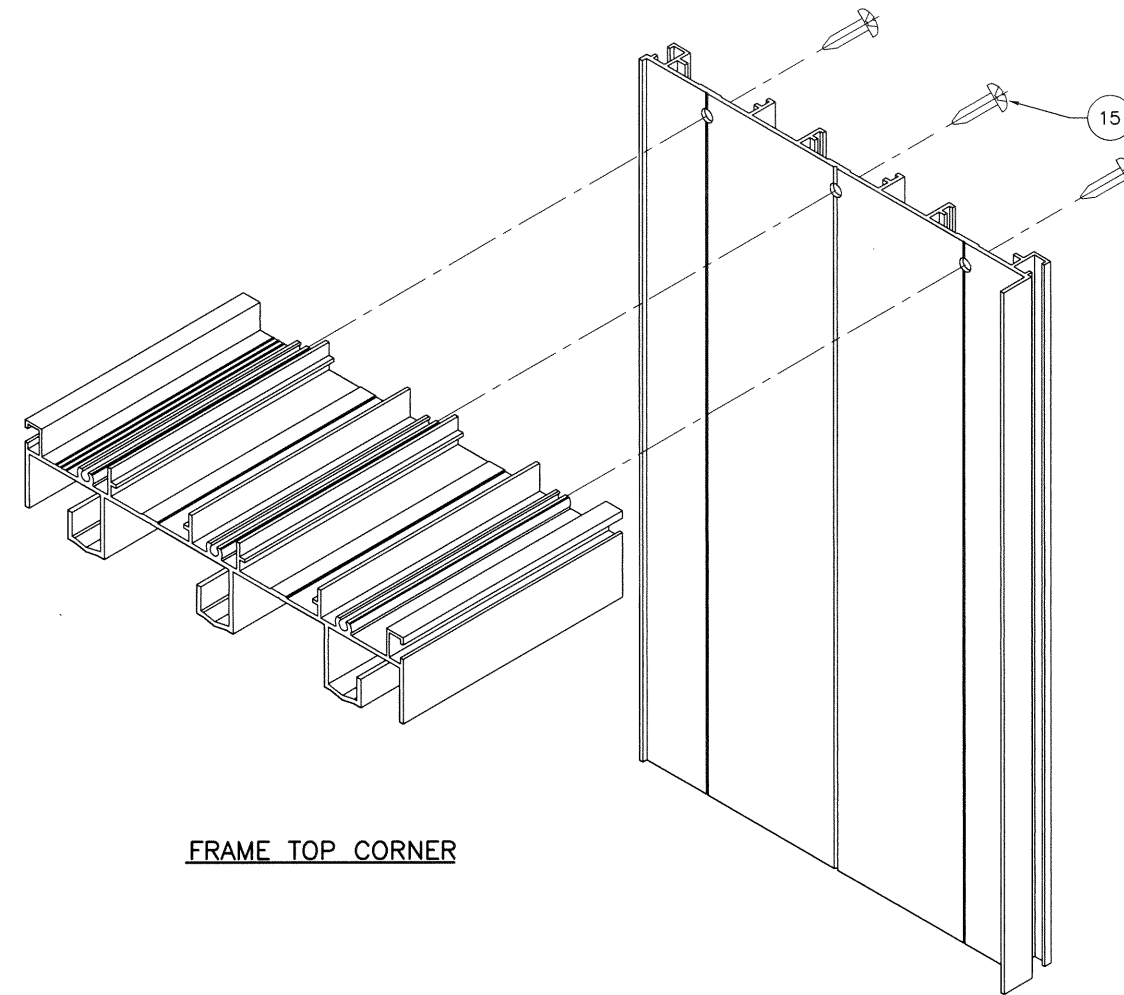
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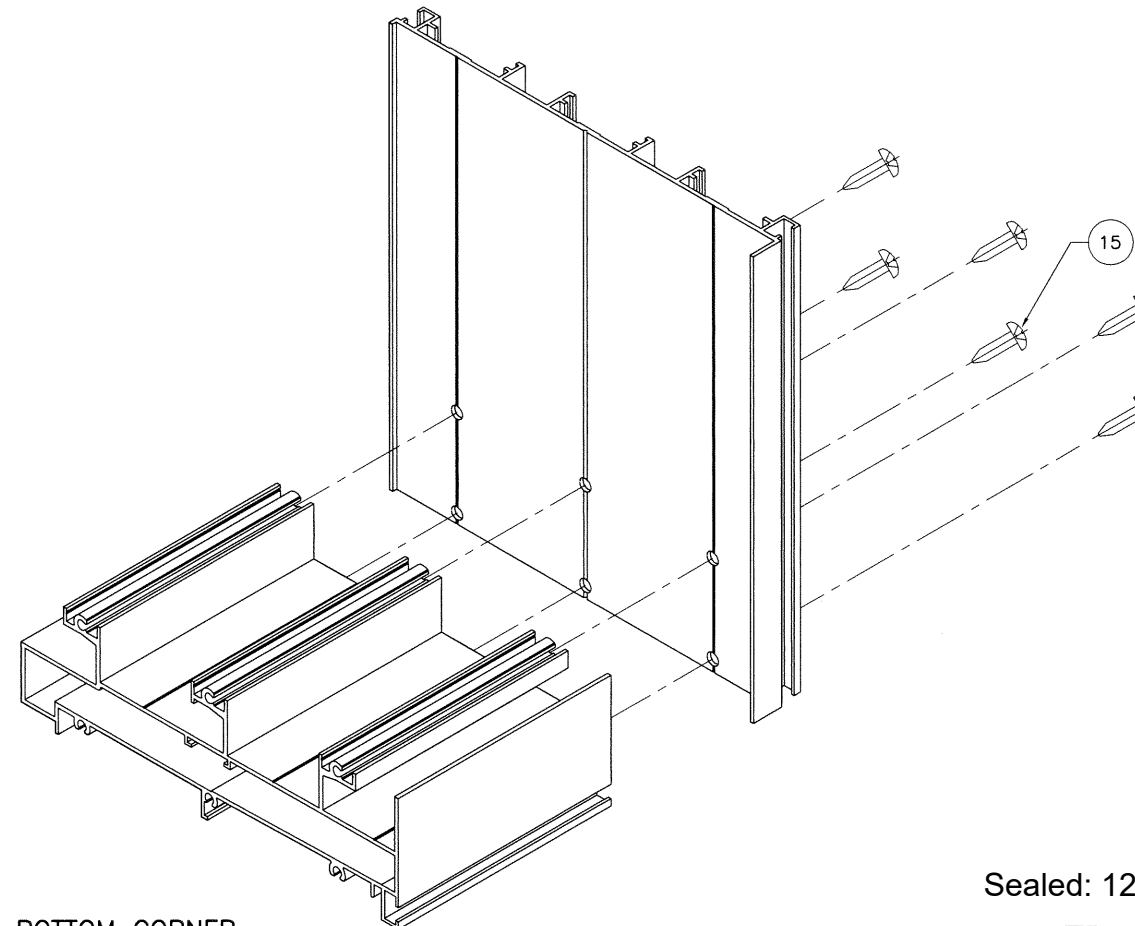
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PANEL TOP/BOTTOM CORNER



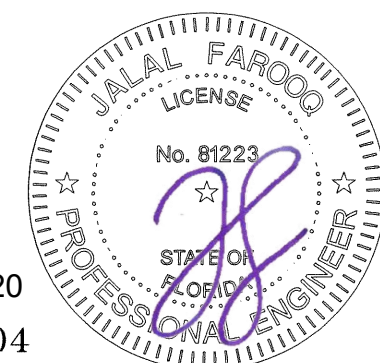
FRAME TOP CORNER



FRAME BOTTOM CORNER

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