

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLE ON SHEET 2 FOR THE GLASS TYPE USED.
- STEP 3** USING CHARTS ON SHEET 2 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

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

SERIES-390HP ALUMINUM SLIDING GLASS DOOR

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.

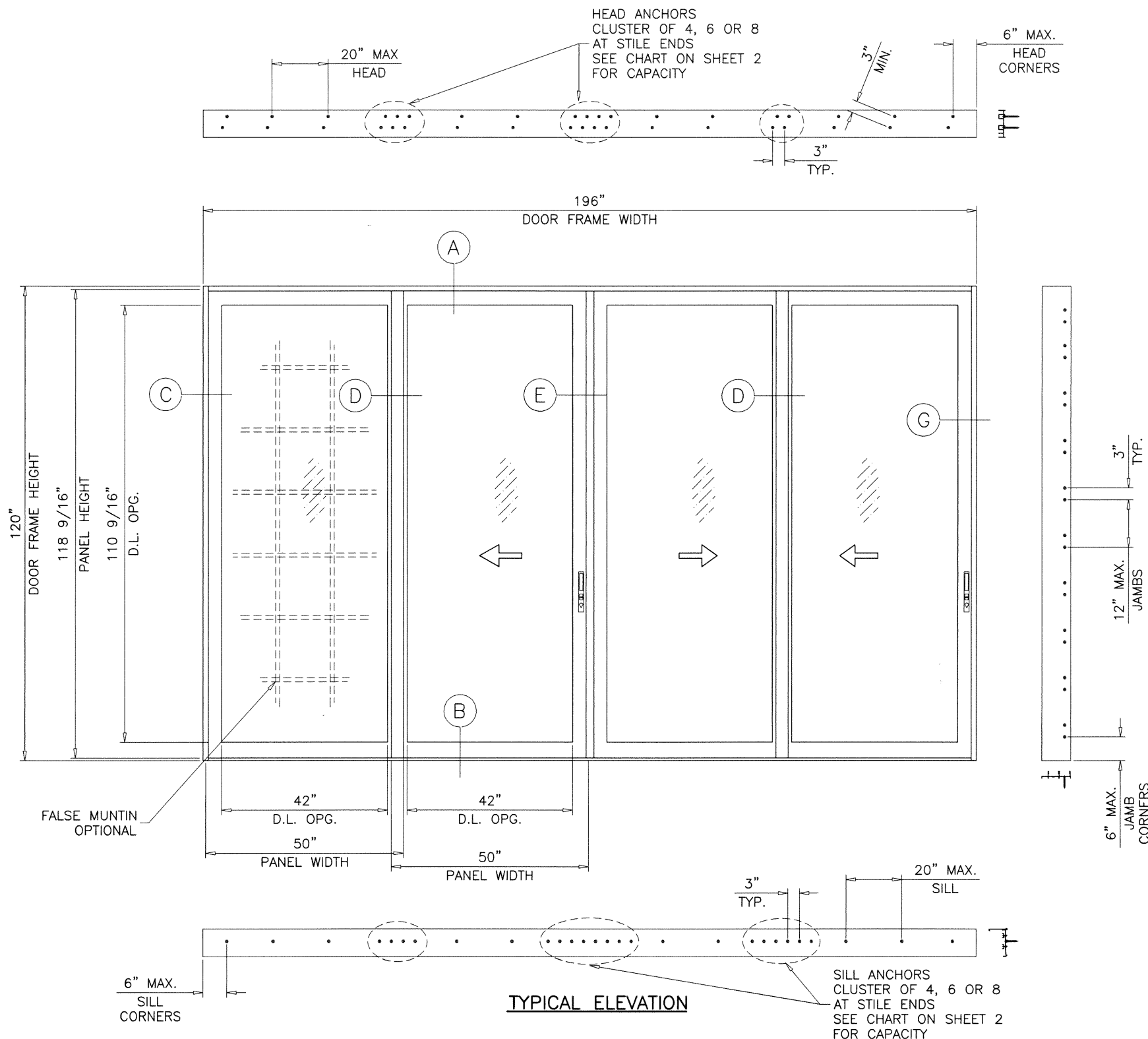
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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)'.

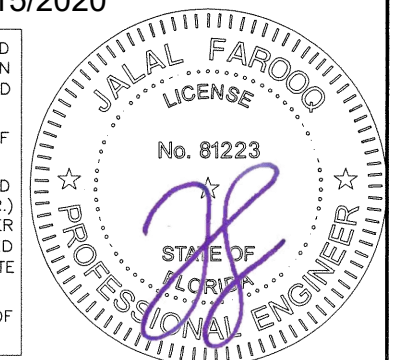
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.



DAYLITE OPENINGS WIDTHS:
 PANEL WIDTH - 8.0"
 DAYLITE OPENING HEIGHT:
 PANEL HEIGHT - 8.0"
 PANEL HEIGHT = DOOR FRAME HEIGHT - 1.4375"

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.

10/15/2020 FL #21848



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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W14-40TMW

SERIES-390HP ALUM. SLIDING GLASS DOOR (L.M.I.)
Assura Windows & Doors, LLC.
 1543 N. Powerline Road
 Pompano Beach, Fl. 33069
 Tel. (305) 887-2646 Fax. (-)

no	date	description	by
A	07.02.15	UPDATED TO 2014 FBC	
B	02.08.17	MANUF. NAME REV.	
C	10.09.17	UPDATED TO 2017 FBC	
D	09.23.20	UPDATED TO 2020 FBC	

date: 10-20-14
 scale: 3/8"=1'-0"
 dr. by: TARIQ
 chk. by:

drawing no. **W14-40**
 sheet 1 of 9

CHART #1

DESIGN LOAD CAPACITY - PSF			
AVERAGE PANEL WIDTH INCHES	DOOR HEIGHT INCHES	GLASS TYPES 'A' & 'B'	
		EXT.(+)	INT.(-)
36	80	90.0	140.0
42		90.0	140.0
48		90.0	140.0
54		81.7	127.0
60		73.5	114.3
36	84	90.0	140.0
42		90.0	140.0
48		90.0	140.0
54		81.7	127.0
60		73.5	81.7
36	90	90.0	140.0
42		90.0	140.0
48		90.0	140.0
54		81.7	90.7
60		57.2	57.2
36	96	90.0	140.0
42		90.0	140.0
48		90.0	140.0
54		81.7	90.7
60		57.2	57.2
36	98	90.0	140.0
42		90.0	140.0
48		90.0	140.0
36	102	90.0	100.0
42		90.0	100.0
48		90.0	100.0
54		63.5	63.5
36	108	90.0	100.0
42		90.0	100.0
48		90.0	100.0
36	114	70.0	70.0
42		70.0	70.0
48		70.0	70.0
36	120	70.0	70.0
42		70.0	70.0
48		70.0	70.0

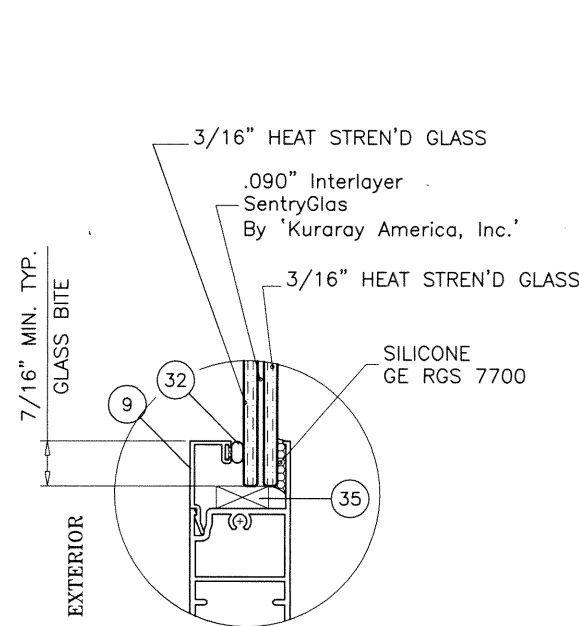
CHART #2

ANCHOR LOAD CAPACITY - PSF									
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPE 'A'		ANCHOR TYPE 'B'				TYPE 'C'	
		6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
36	80	140.0	140.0	139.3	140.0	140.0	140.0	140.0	140.0
42		140.0	140.0	119.4	140.0	140.0	140.0	140.0	140.0
48		136.0	140.0	104.5	140.0	140.0	140.0	140.0	140.0
54		120.9	127.0	92.9	127.0	127.0	127.0	127.0	127.0
60		108.8	114.3	83.6	114.3	114.3	114.3	114.3	114.3
36	84	140.0	140.0	132.7	140.0	140.0	140.0	140.0	140.0
42		140.0	140.0	113.7	140.0	140.0	140.0	140.0	140.0
48		129.5	140.0	99.5	139.3	140.0	139.3	140.0	140.0
54		115.1	127.0	88.4	123.8	127.0	123.8	127.0	127.0
60		81.7	81.7	79.6	81.7	81.7	81.7	81.7	81.7
36	90	140.0	140.0	123.8	140.0	140.0	140.0	140.0	140.0
42		138.1	140.0	106.1	140.0	140.0	140.0	140.0	140.0
48		120.9	140.0	92.9	130.0	140.0	130.0	140.0	140.0
54		90.7	90.7	82.5	90.7	90.7	90.7	90.7	90.7
60		57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
36	96	140.0	140.0	116.1	140.0	140.0	140.0	140.0	140.0
42		129.5	140.0	99.5	139.3	140.0	139.3	140.0	140.0
48		113.3	140.0	87.1	121.9	140.0	121.9	140.0	140.0
54		90.7	90.7	77.4	90.7	90.7	90.7	90.7	90.7
60		57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
36	98	140.0	140.0	113.7	140.0	140.0	140.0	140.0	140.0
42		126.9	140.0	97.5	136.5	140.0	136.4	140.0	140.0
48		111.0	140.0	85.3	119.4	140.0	119.4	140.0	140.0
36	102	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42		100.0	100.0	93.6	100.0	100.0	100.0	100.0	100.0
48		100.0	100.0	81.9	100.0	100.0	100.0	100.0	100.0
54		63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
36	108	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42		100.0	100.0	88.4	100.0	100.0	100.0	100.0	100.0
48		100.0	100.0	77.4	100.0	100.0	100.0	100.0	100.0
36	114	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
36	120	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48		70.0	70.0	69.7	70.0	70.0	70.0	70.0	70.0

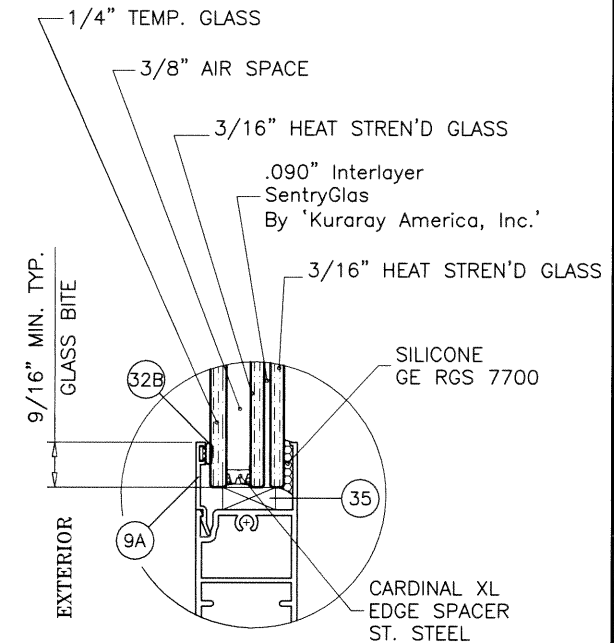
AVERAGE PANEL WIDTH = $\frac{\text{DOOR WIDTH}}{\text{NUMBER OF PANELS}}$

NOTE:
SEE CHART #1 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
SEE CHART #2 FOR ANCHORS CAPACITY.
LOWER VALUES FROM GLASS OR ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

ALL EXTERIOR(+) LOADS SHOWN IN CHARTS ABOVE ARE FOR DOORS WITH 3-1/2" SILL HEIGHTS.
FOR 2-3/4" SILL HEIGHT LIMIT EXT.(+) LOADS TO 87.5 PSF
SEE SHEET 4 FOR DETAILS



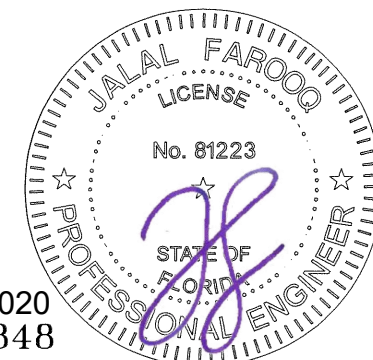
GLASS TYPE 'A'
7/16" OVERALL LAMINATED GLASS



GLASS TYPE 'B'
1-1/16" OVERALL INSUL. LAM. GLASS

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

10/15/2020
FL #21848



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no	date	description

date: 10-20-14
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dr. by: TARIQ
chk. by:

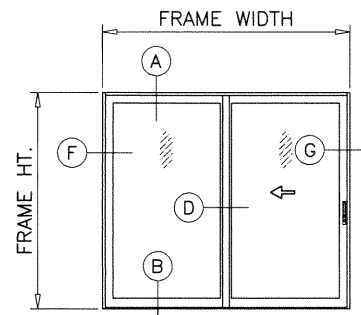
drawing no.
W14-40
sheet 2 of 9

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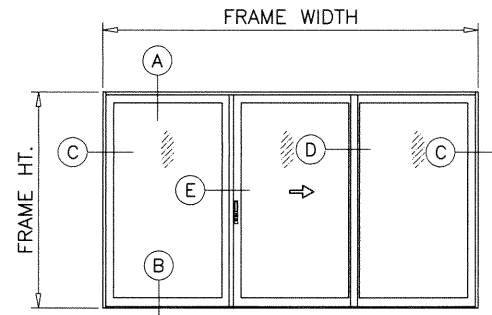
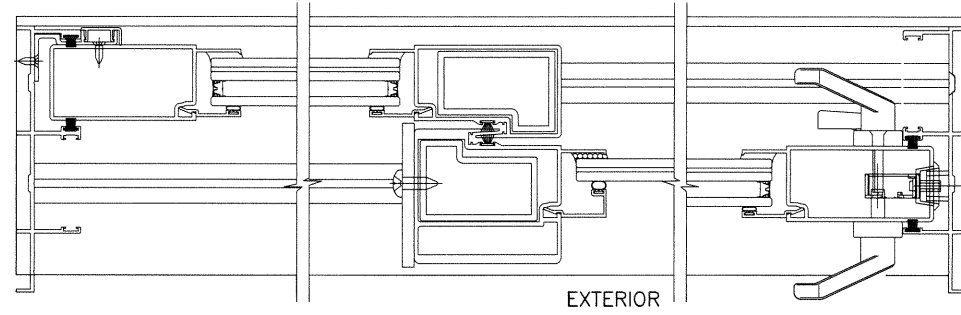
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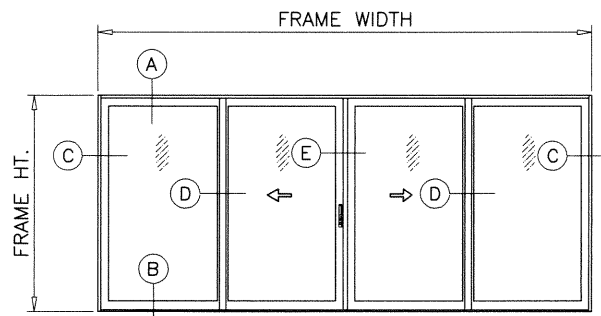
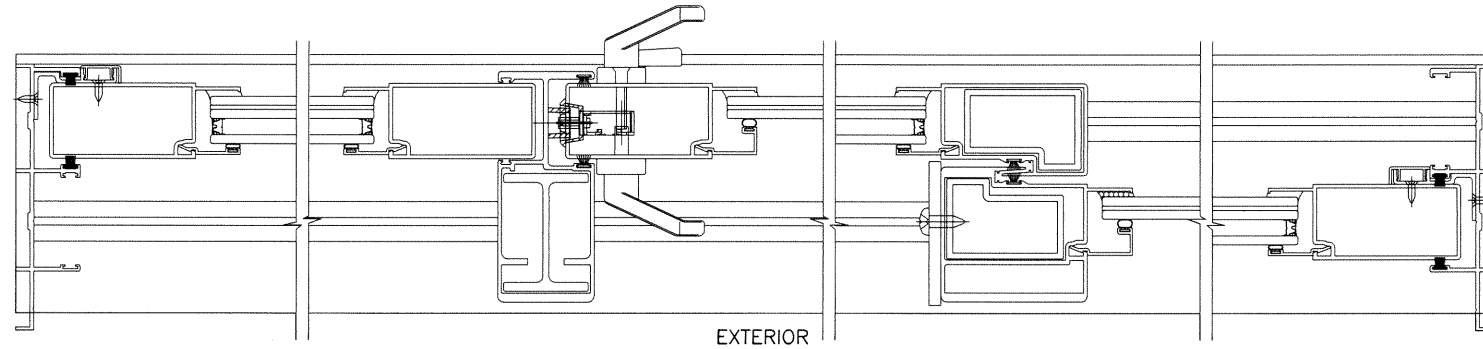
- NOTE:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. FOR APPLICABLE DESIGN PRESSURES SEE INSTRUCTIONS IN SHEET 1.
 3. FOR ANCHOR DETAILS SEE SHEETS 4 THRU 6.



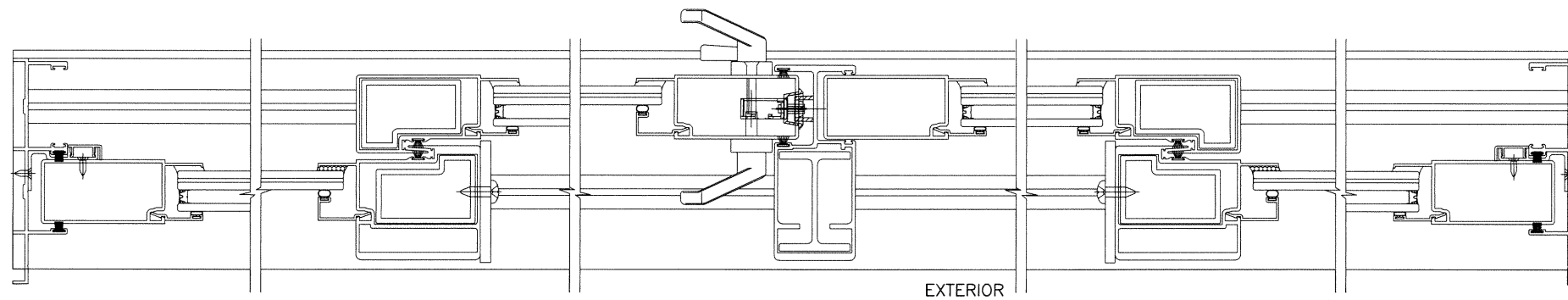
OX (SHOWN)
 XO
 XX



O XO (SHOWN)
 OXX
 XXO

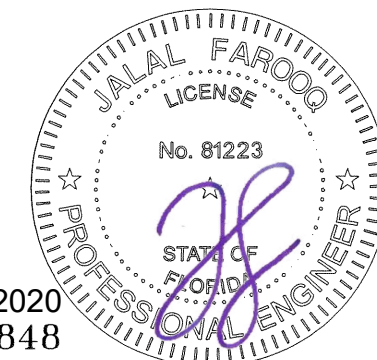


OXXO (SHOWN)
 OXXX
 XXXX



APPROVED CONFIGURATIONS

10/15/2020
 FL #21848



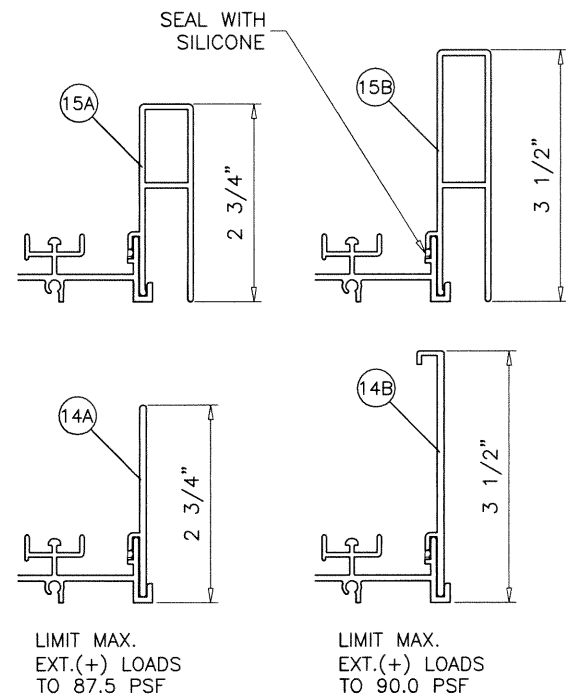
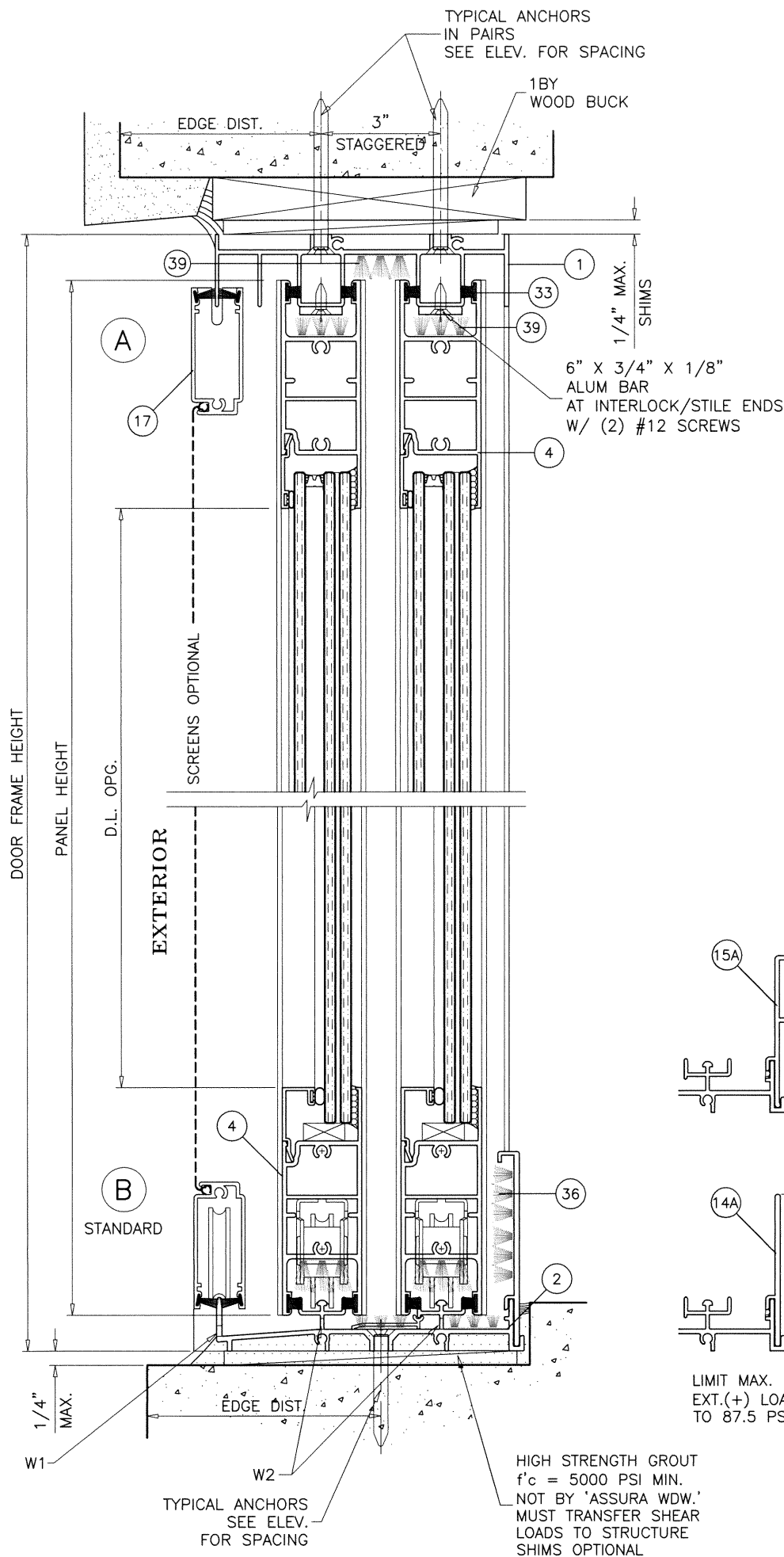
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revisions:	no.	date	by	description

date:	10-20-14
scale:	-
dr. by:	TARIQ
chk. by:	

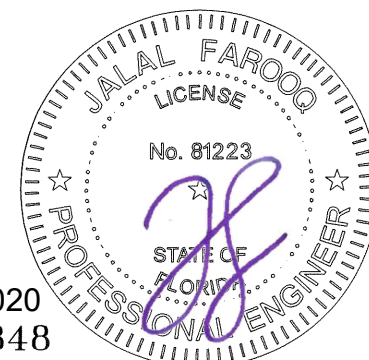
drawing no.
W14-40
 sheet 3 of 9



WEEPHOLES:

- W1 = (2) 5/16" X 3/8" WEEP NOTCH AT EACH END OF SILL
- W2 = (2) 3/16" X 3/4" WEEP NOTCH AT EACH END OF SILL

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no	date	description

date: 10-20-14
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dr. by: TARIQ
chk. by:

drawing no.
W14-40
sheet 4 of 9

COMP-ANL\W14-40TMW

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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

TYPE 'A'- 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
 THRU 1BY BUCKS INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE

TYPE 'B'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 DIRECTLY INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE

TYPE 'C'- 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 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)

AT SILL

TYPE 'B'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 DIRECTLY INTO CONCRETE
 1-1/4" MIN. EMBED

AT JAMBS

TYPE 'A'- 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
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONC. OR BLOCKS

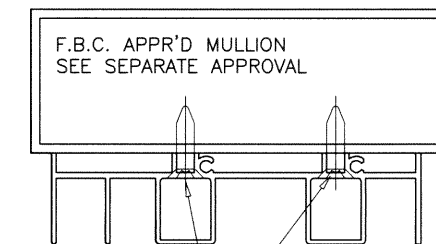
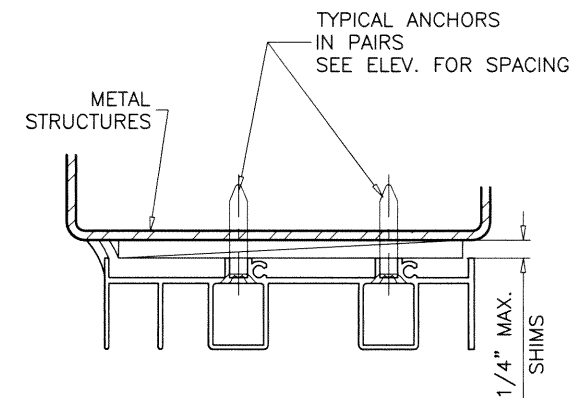
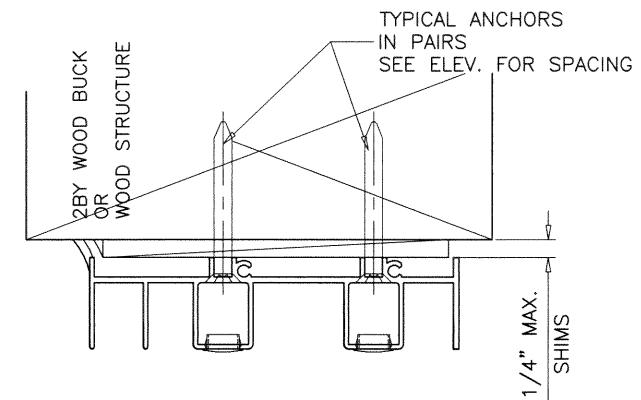
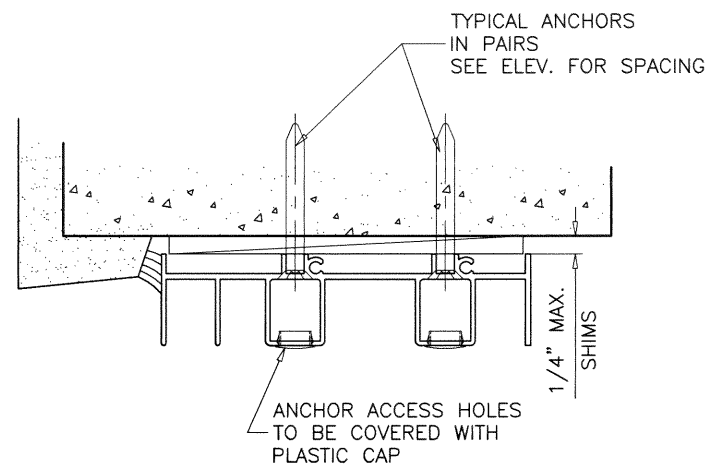
TYPE 'B'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 DIRECTLY INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONC. OR BLOCKS

TYPE 'C'- 1/4" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 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)

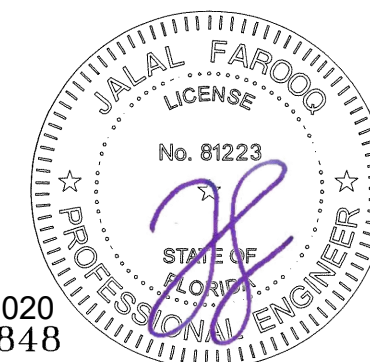
ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" 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 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



TYPICAL ANCHORS
 IN PAIRS
 SEE ELEV. FOR SPACING



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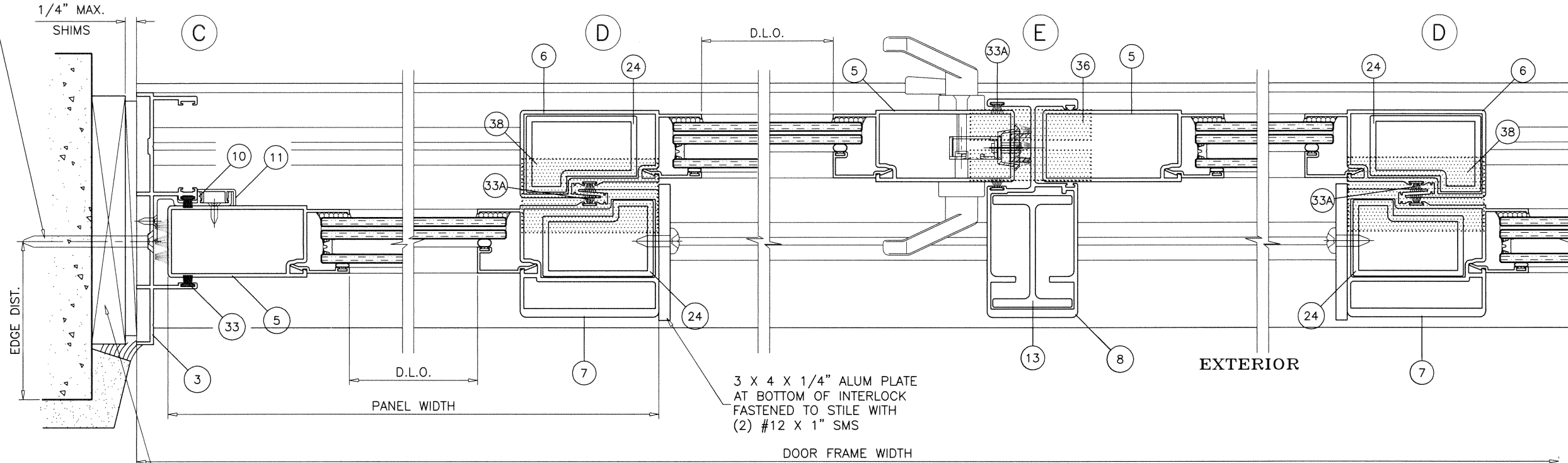
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drawing no.
W14-40
 sheet 5 of 9

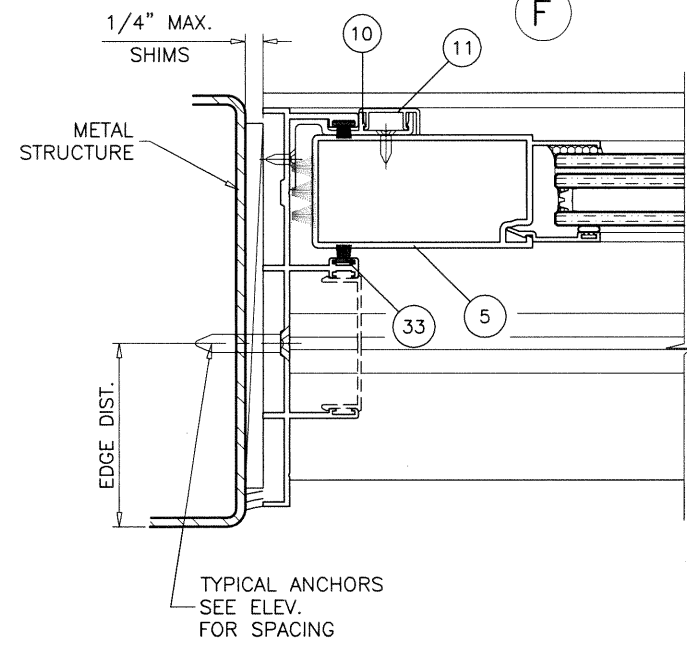
TYPICAL ANCHORS
IN PAIRS
SEE ELEV.
FOR SPACING



3 X 4 X 1/4" ALUM PLATE
AT BOTTOM OF INTERLOCK
FASTENED TO STILE WITH
(2) #12 X 1" SMS

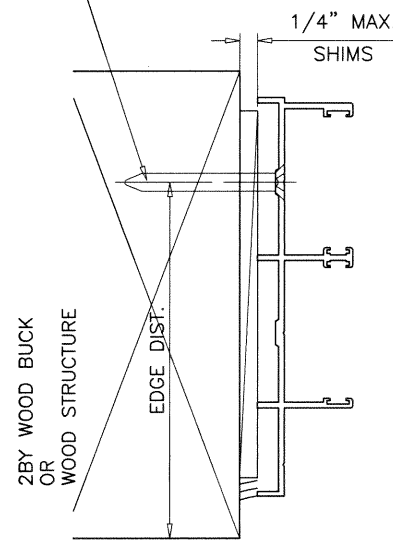
EXTERIOR

1BY
WOOD BUCKS



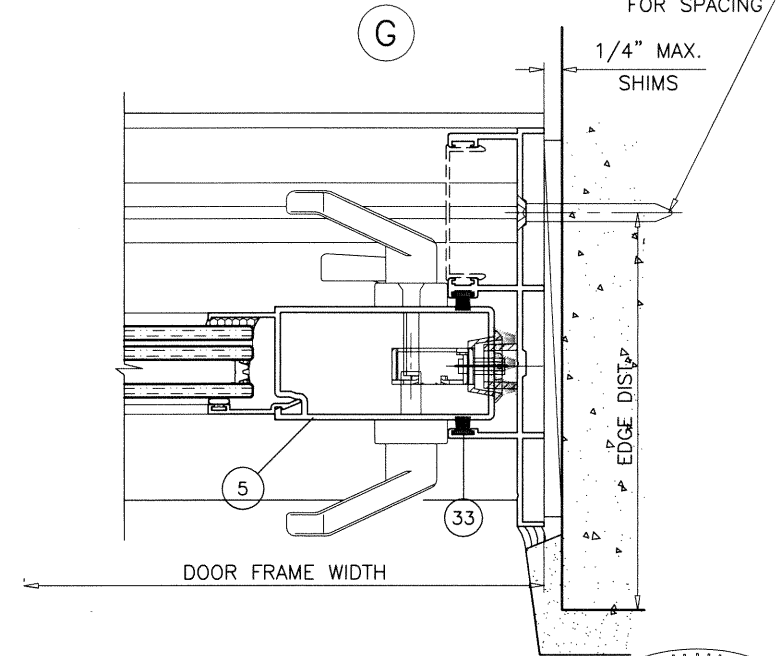
TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

TYPICAL ANCHORS
IN PAIRS
SEE ELEV.
FOR SPACING

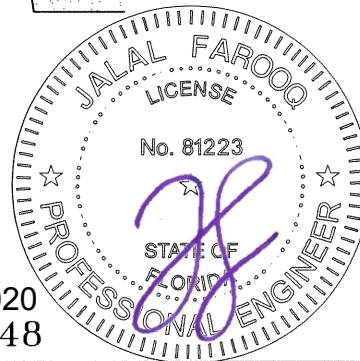


2BY WOOD BUCK
OR
WOOD STRUCTURE

TYPICAL ANCHORS
IN PAIRS
SEE ELEV.
FOR SPACING



DOOR FRAME WIDTH



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TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL \ W14-40TMM

SERIES-390HP ALUM. SLIDING GLASS DOOR (L.M.I.)
Assura Windows & Doors, LLC.
1543 N. Powerline Road
Pompano Beach, FL 33069
Tel. (305) 887-2646 Fax. (-)

no	date	description

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scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W14-40
sheet 6 of 9

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	TM-347	1	FRAME HEAD	6063-T6	-
2	TMW-39	1	FRAME SILL	6063-T6	-
3	TM-332	2	FRAME JAMB	6063-T6	-
4	TM-321	2/ PANEL	PANEL TOP AND BOTTOM RAIL	6063-T6	-
5	TM-322	1	PANEL JAMB STILE	6063-T6	-
6	TM-323	AS REQD.	STD. INNER INTERLOCK	6063-T6	-
7	TM-364	AS REQD.	HI-RISE OUTER INTERLOCK	6005-T5	-
8	TM-371	AS REQD.	HI-RISE ASTRAGAL STILE	6005-T5	-
9	TM-327	4/ PANEL	GLAZING BEAD (LAM. GLASS)	6063-T6	-
9A	TM-326	4/ PANEL	GLAZING BEAD (LAM. INSUL. GLASS)	6063-T6	-
10	TM-348	1/ FIX. PANEL	FIX. PANEL CLIP	6063-T6	-
11	TM-349	AS REQD.	FIX. PANEL CLIP COVER	6063-T6	-
12	TM-339	AS REQD.	JAMB COVER (OPTIONAL)	6063-T6	-
13	TM-369	1	ASTRAGAL STIFFENER	6005-T5	-
14A	TM-342	AS REQD.	2-3/4" SILL RISER	6063-T6	-
14B	TM-343	AS REQD.	3-1/2" SILL RISER	6063-T6	-
15A	TM-350	AS REQD.	2-3/4" SILL RISER	6063-T6	-
15B	TM-351	AS REQD.	3-1/2" SILL RISER	6063-T6	-
16	TM-340	AS REQD.	SILL ANCHOR COVER	6063-T6	-
17	TM-354	AS REQD.	SCREEN TOP & BOTTOM RAIL	6063-T6	-
18	TM-355	AS REQD.	SCREEN STILE	6063-T6	-
19	TM-357	AS REQD.	OXXO SCREEN STILE	6063-T6	-
20	TM-356	AS REQD.	OXO SCREEN ADAPTER	6063-T6	-
21	TM-344	AS REQD.	FRAME HEAD SCREEN ADAPTER (3 & 4 TRACKS)	6063-T6	-
22	TM-345	AS REQD.	FRAME SILL SCREEN ADAPTER (3 & 4 TRACKS)	6063-T6	-
23	TM-346	AS REQD.	FRAME JAMB SCREEN ADAPTER (3 & 4 TRACKS)	6063-T6	-
24	TM-328	AS REQD.	HOLLOW STIFFENER	6005-T5	-
27	#10 X 3/4"	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	PH P SMS
28	#12 X 1"	2/ CORNER	PANEL ASSEMBLY SCREWS	ST. STEEL	FH SMS
29	#10 X 1"	AS REQD.	FIX. PANEL SCREWS, AT 6" FROM ENDS & 24" O.C. MAX.	ST. STEEL	FPF SMS/TEKS
30	-	2/ PANEL	ROLLER ASSEMBLY	-	HSTD
31	-	-	MORTISE HOOK LOCK	-	FASCO
32	E70818KN1020	4/ LITE	GLAZING GASKET (7/16" LAM. GLASS)	VINYL	ULTRAFAB
32A	W32001	4/ LITE	GLAZING GASKET (9/16" LAM. GLASS)	VINYL	AMESBURY
32B	W32011	4/ LITE	GLAZING GASKET (INSUL. LAM. GLASS)	VINYL	AMESBURY
33	21315	AS REQD.	FIN SEAL PILE W'STRIPPING	-	ULTRAFAB
33A	33371	AS REQD.	FIN SEAL PILE W'STRIPPING	-	ULTRAFAB
34	-	AS REQD.	BULB W'STRIPPING	VINYL	-
35	-	2/ LITE	SETTING BLOCK, 1/8" X 1/4" X 2" LONG	EPDM	LAMATEK
36	-	AS REQD.	SELF ADHESIVE PILE PAD (1-3/4" X 3" X 3/4")	WOOL	ULTRAFAB
37	-	AS REQD.	SELF ADHESIVE PILE PAD (1" X 2-7/16" X 1/2")	WOOL	ULTRAFAB
38	-	AS REQD.	SELF ADHESIVE PILE PAD (1-5/8" X 2-7/16" X 1/2")	WOOL	ULTRAFAB
39	-	AS REQD.	SELF ADHESIVE PILE PAD (1/8" X 2-7/16" X 3/4")	WOOL	ULTRAFAB
40	-	-	-	-	-

SEALANTS:

FRAME AND PANEL CORNERS AND INSTALLATION SCREWS AT SILL AND JAMBS SEALED WITH JOINT SEALANT.

10/15/2020
FL #21848



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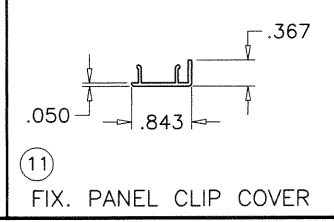
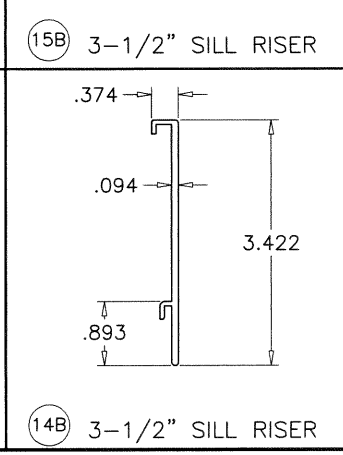
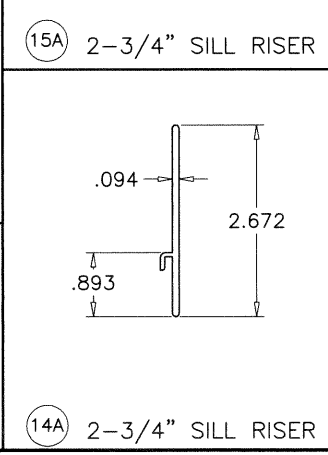
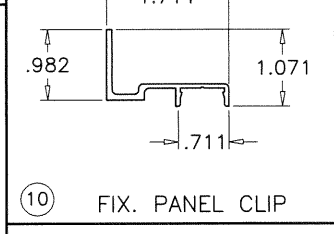
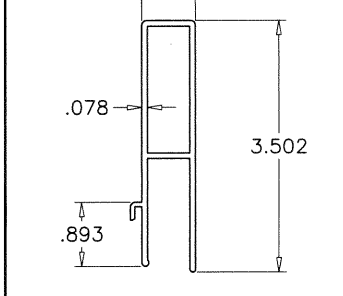
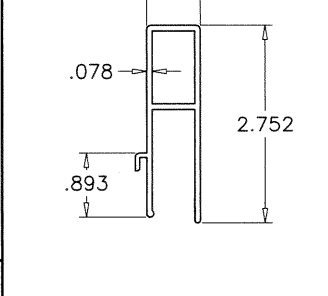
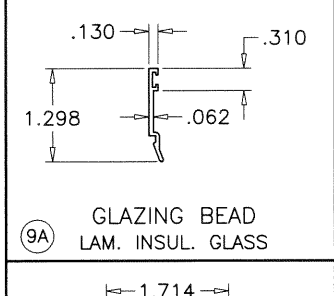
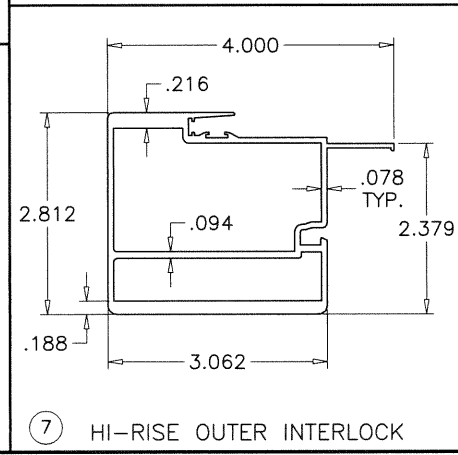
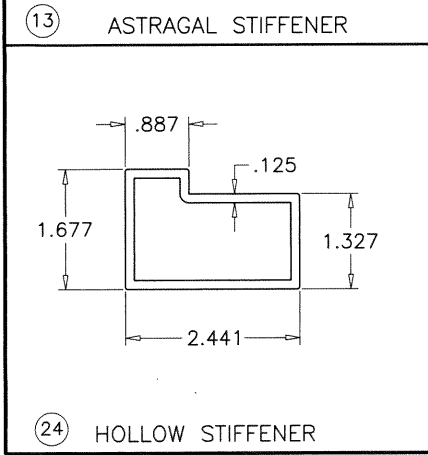
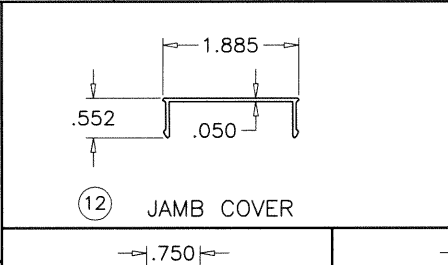
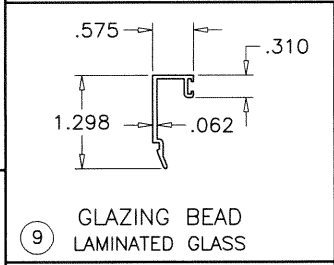
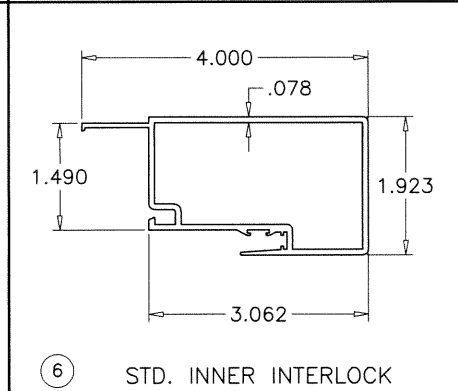
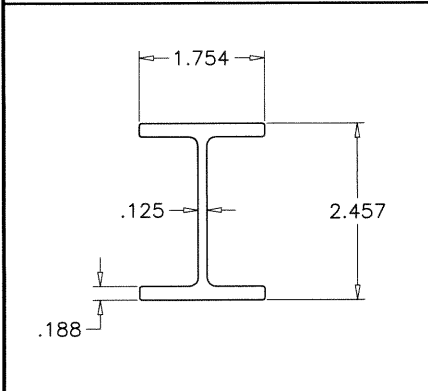
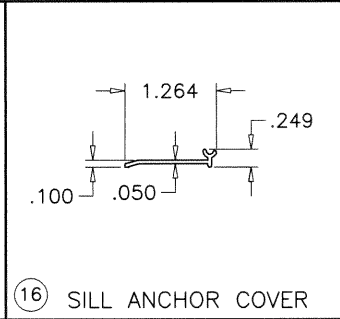
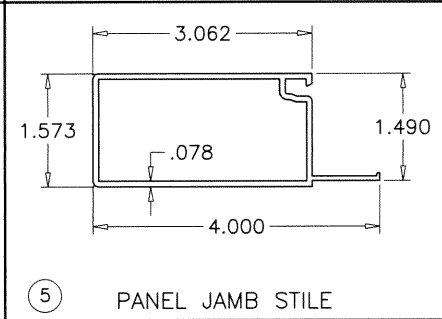
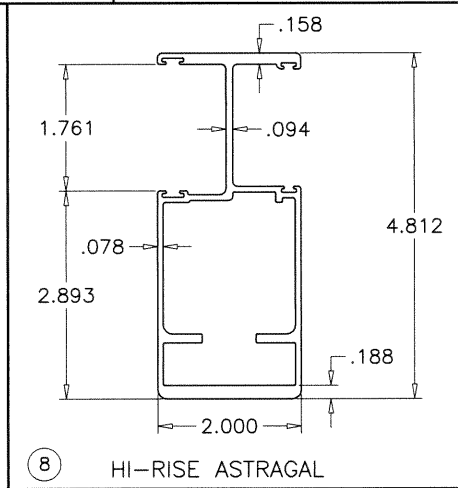
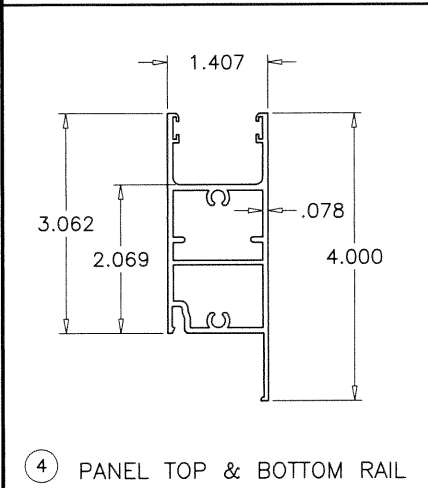
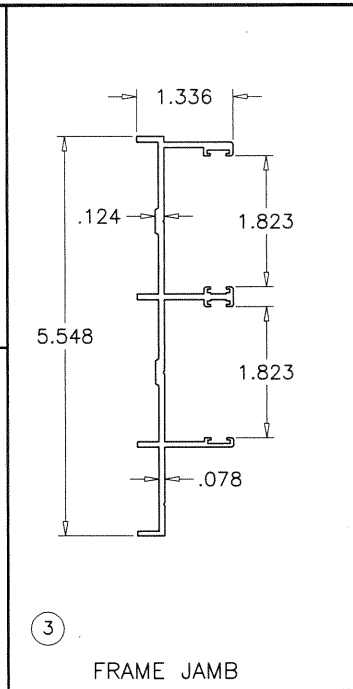
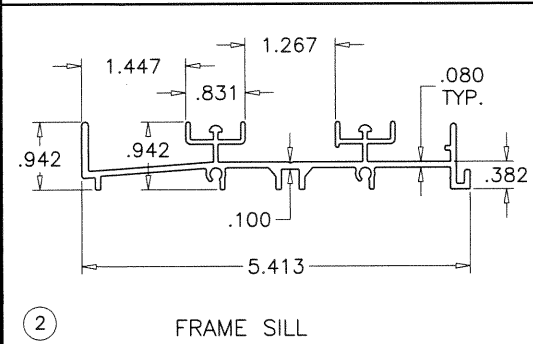
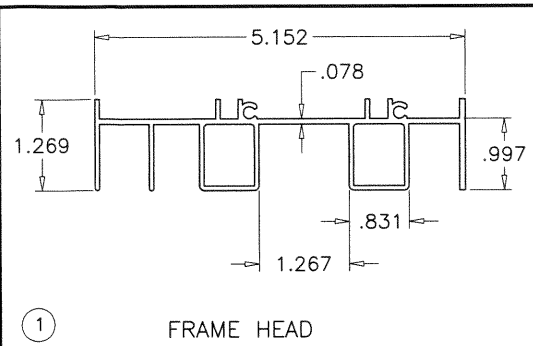
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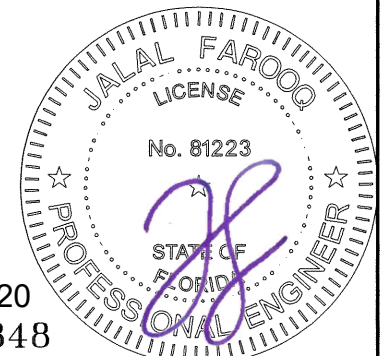
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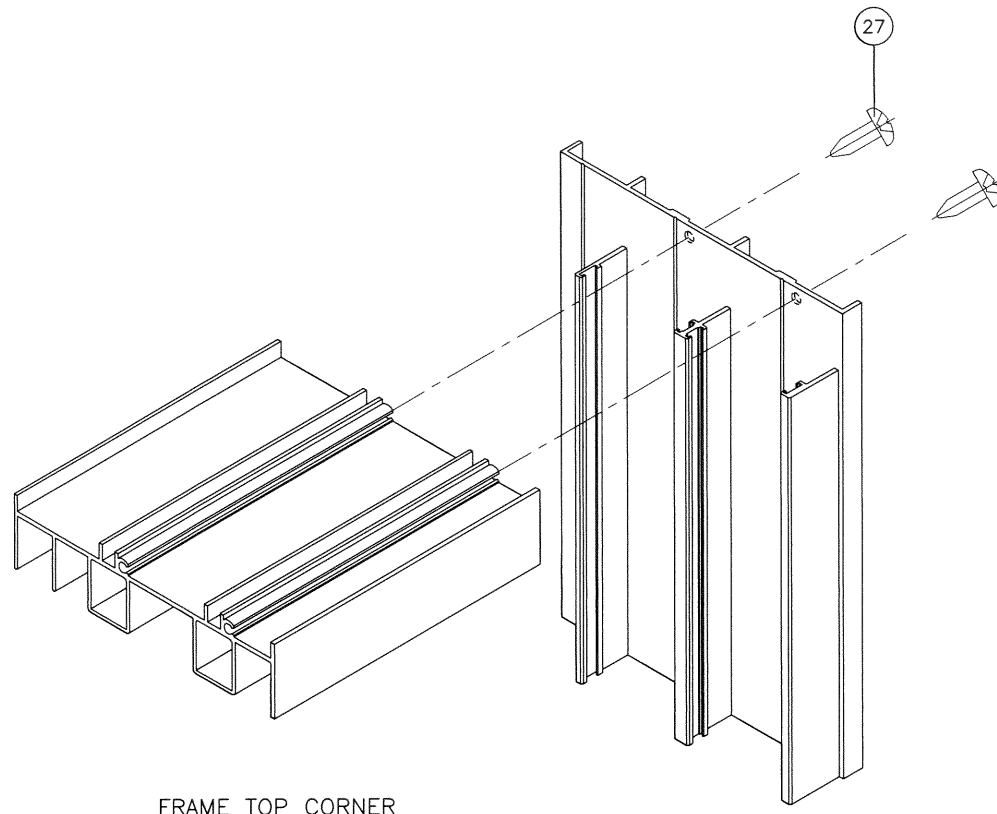
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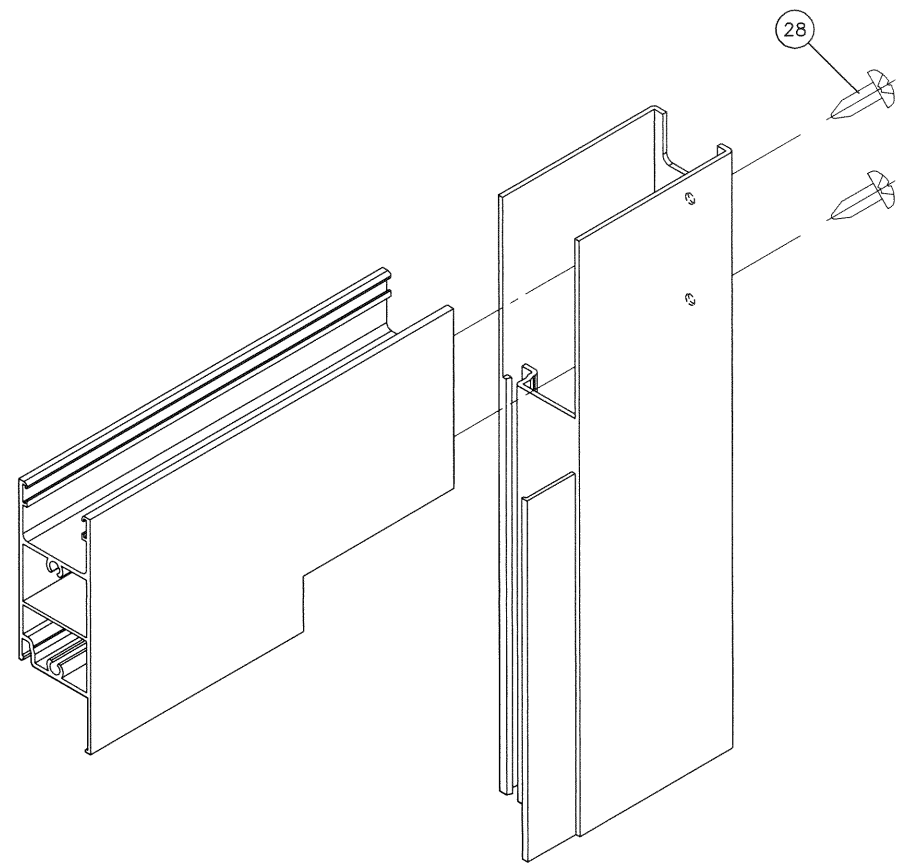
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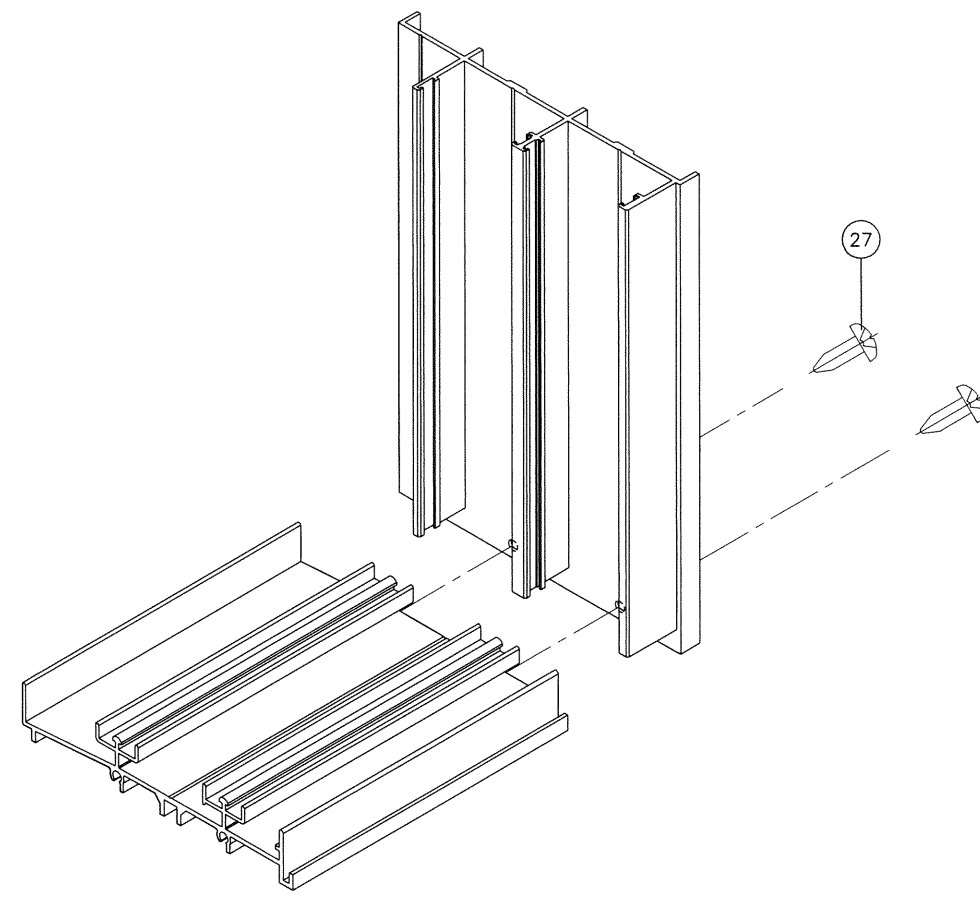




FRAME TOP CORNER

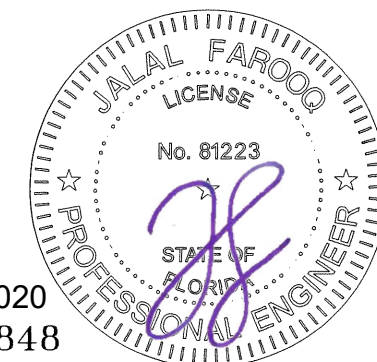


PANEL TOP/BOTTOM CORNER



FRAME BOTTOM CORNER

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