

DAYLITE OPENINGS:
D.L.O. HEIGHT = PANEL HEIGHT - 7.000"
D.L.O. WIDTH = PANEL WIDTH - 6.937"
PANEL HEIGHT = FRAME HEIGHT - 1.375"

SERIES-6000 ALUMINUM SLIDING GLASS WINDOW

SEE SHEETS 3 THRU 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REQUIRED REINFORCING.

USING CHART ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.

LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

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.

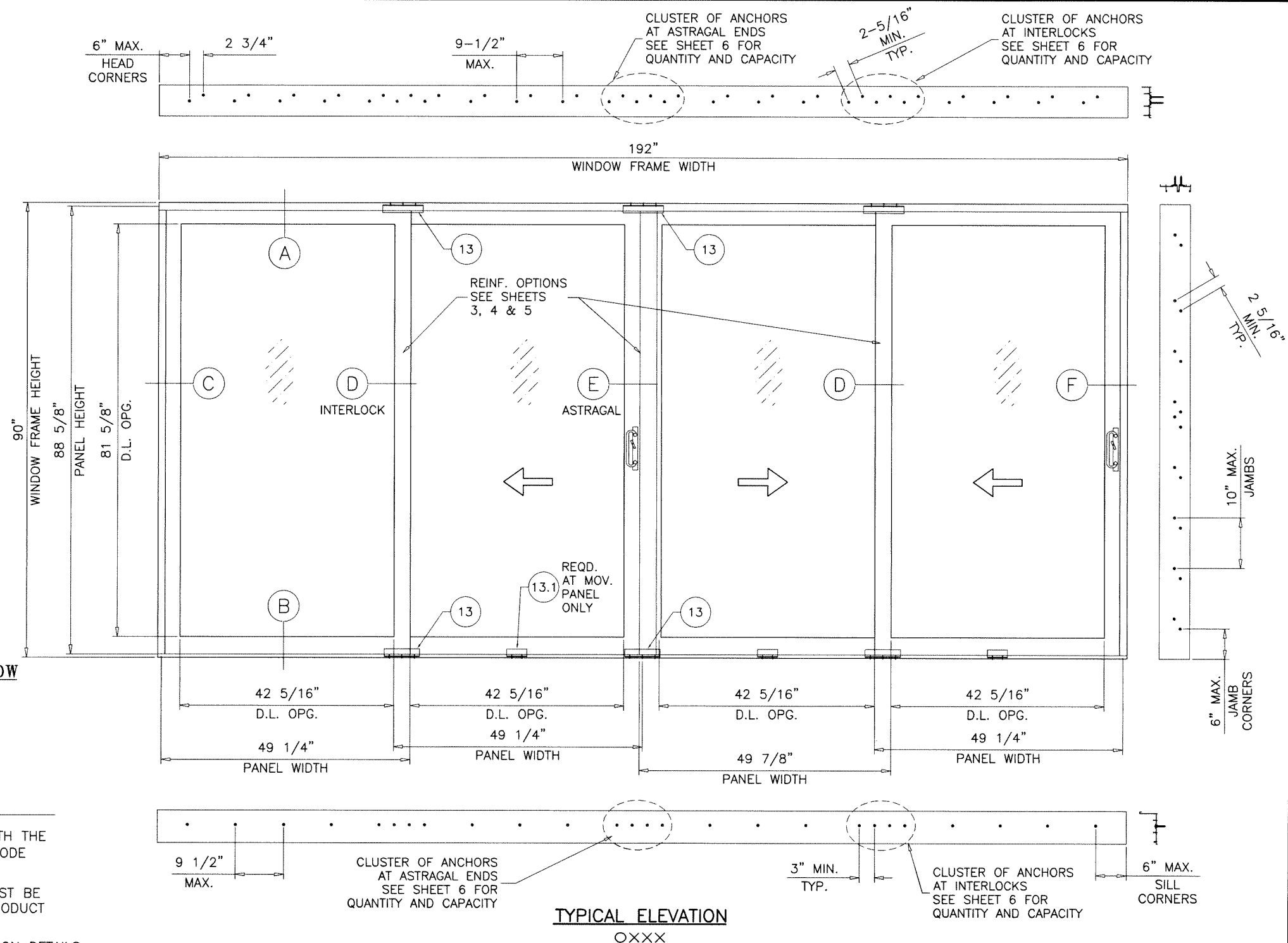
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

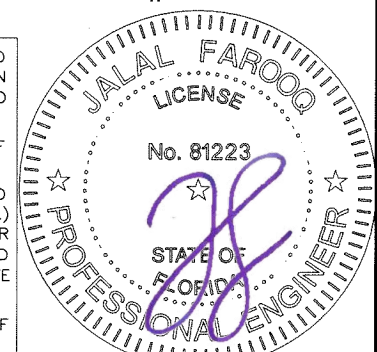


TYPICAL ELEVATION
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FL #47084

- 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.



SERIES-6000 ALUM SLIDING GLASS WINDOW (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142

TEL. (305) 638-5151 FAX. (305) 638-5158

af c
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)

COMP-ANL\24-78F-ES

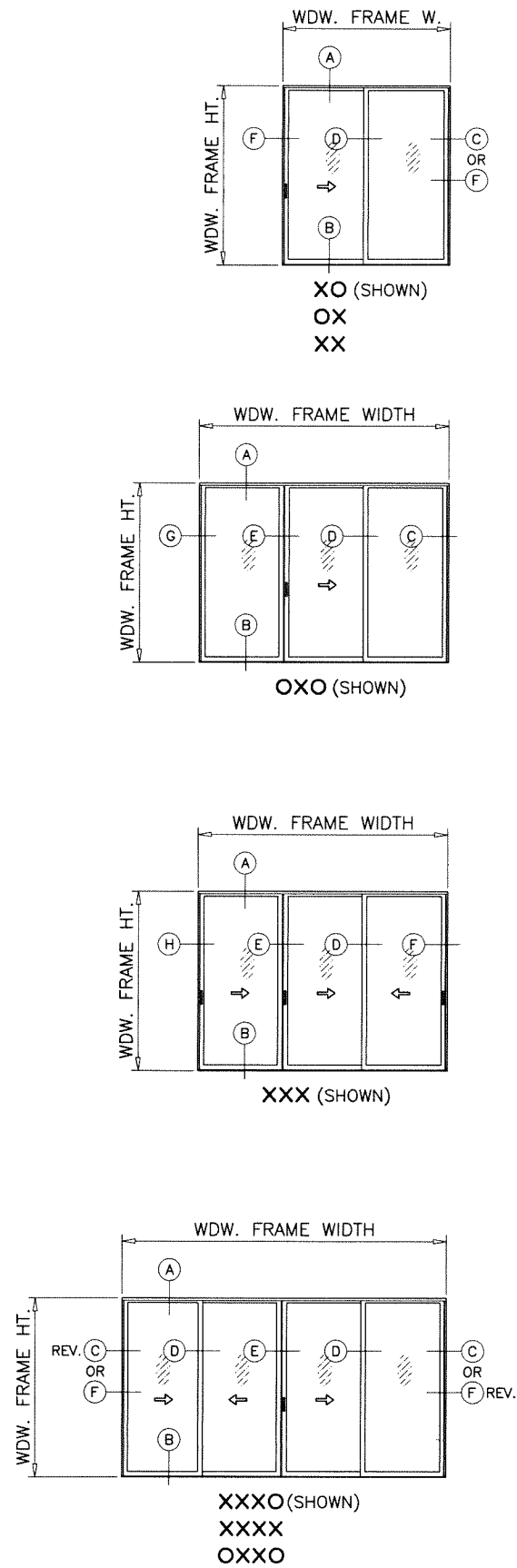
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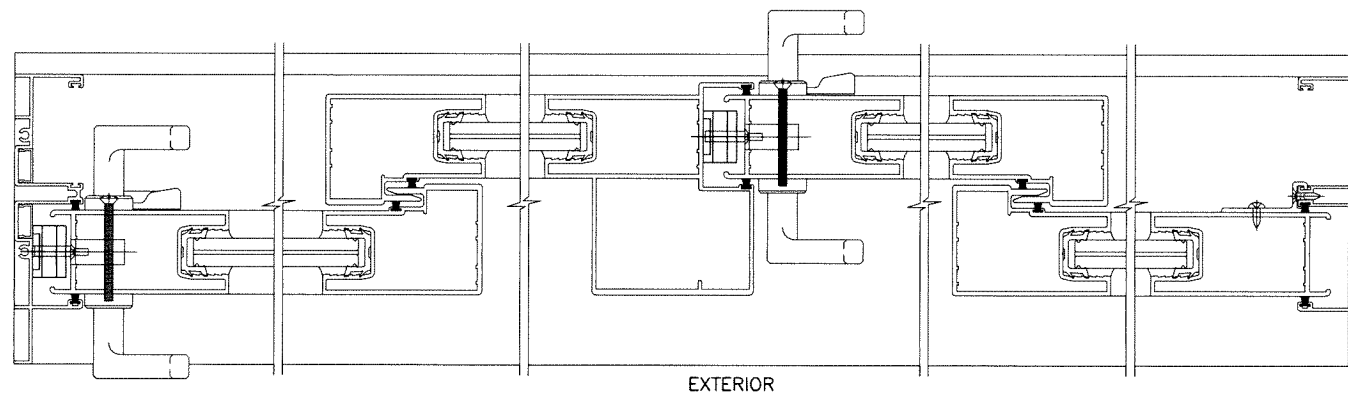
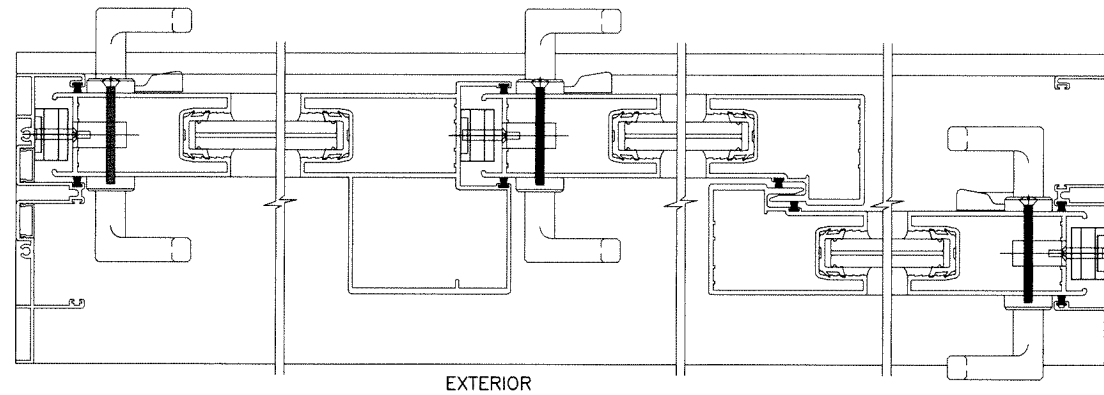
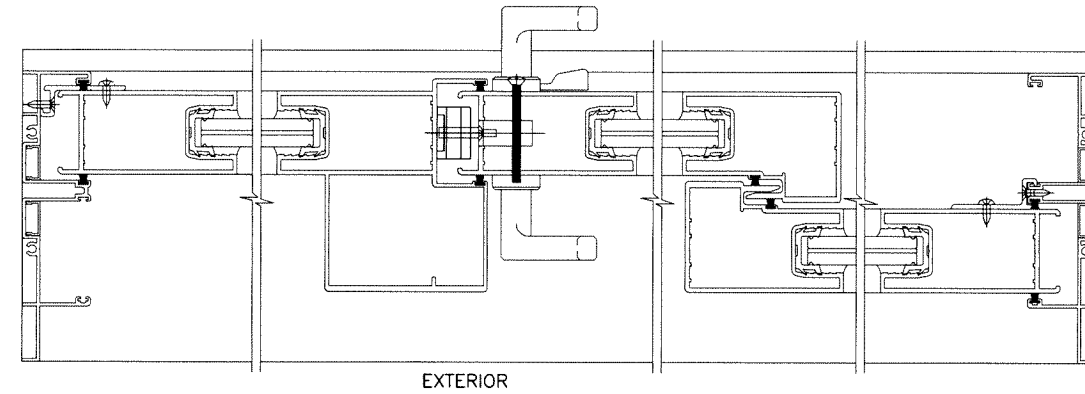
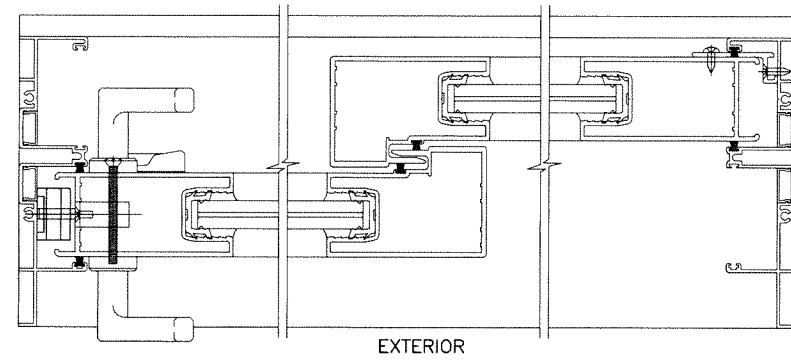
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24-78F

sheet 1 of 13



APPROVED CONFIGURATIONS



NOTE:
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE
SEE APPLICABLE DESIGN PRESSURE & SIZE IN
SHEETS 3 THRU 5 AND ANCHOR INSTALLATION IN SHEET 6.

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FL #47084



SERIES-6000 ALUM SLIDING GLASS WINDOW (L.M.I.)

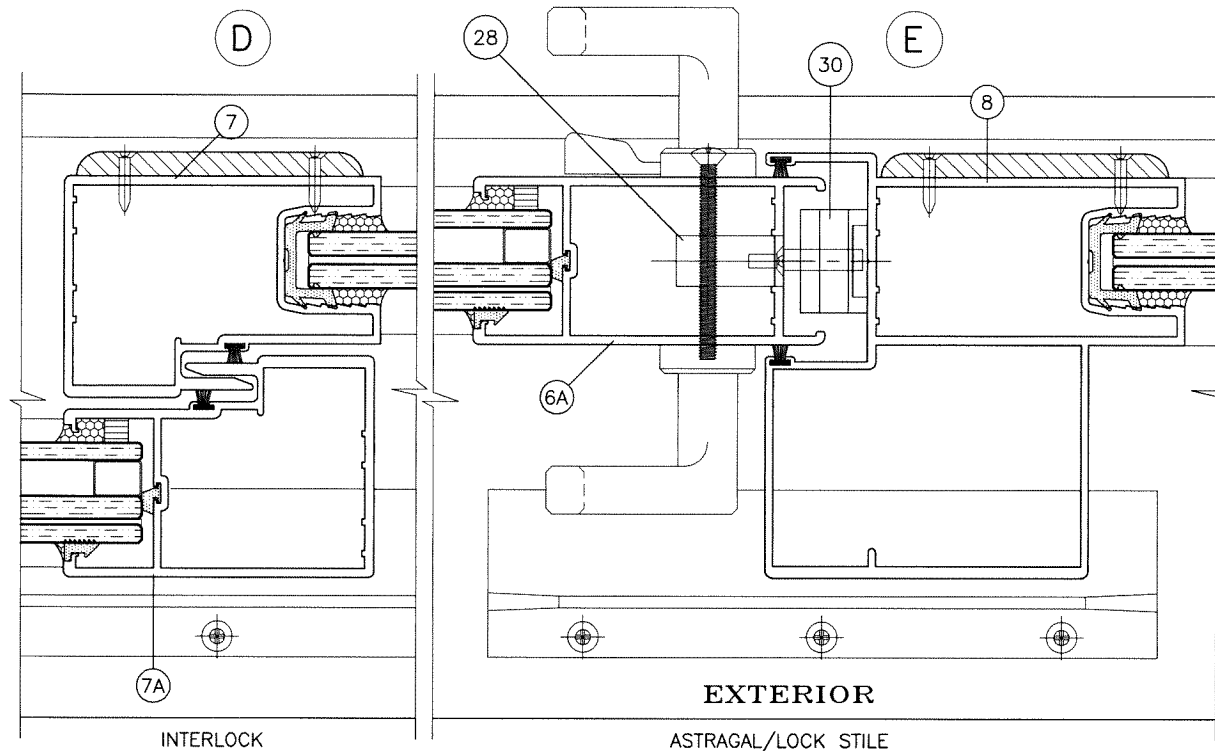
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COMP-ANL 24-78F-ES

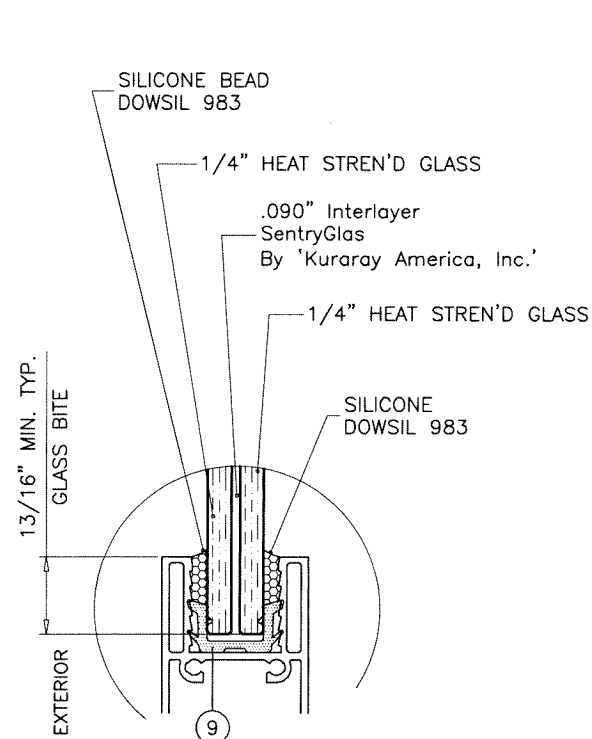
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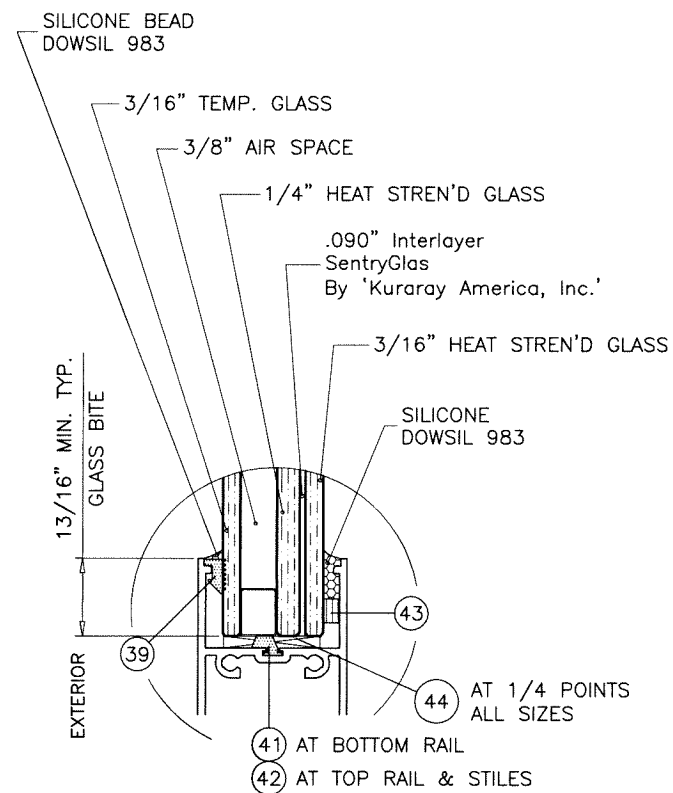
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sheet 2 of 13



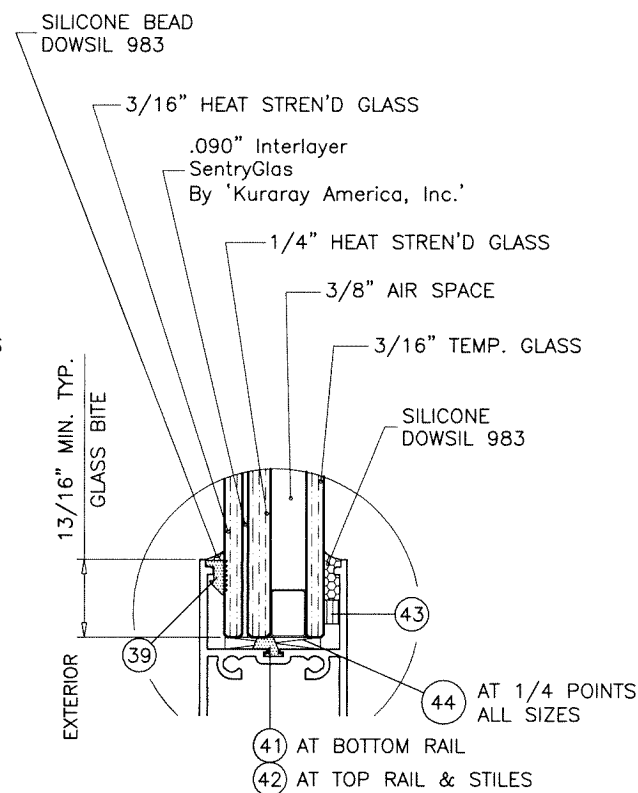
OPTION #1
WITHOUT REINFORCING



GLASS TYPE 'A'
9/16" OVERALL LAM. GLASS



GLASS TYPE 'B'
1" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B' (REVERSE)
1" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

DESIGN LOAD CAPACITY - PSF WITHOUT REINFORCING					
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B' & 'B' REVERSE	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	82	75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	75.0	75.0
44		75.0	75.0	75.0	75.0
48		75.0	75.0	75.0	75.0
53		67.9	67.9	67.9	67.9
60	90	60.0	60.0	60.0	60.0
30		75.0	75.0	75.0	75.0
36		75.0	75.0	75.0	75.0
42		75.0	75.0	75.0	75.0
44		75.0	75.0	75.0	75.0
48		75.0	75.0	75.0	75.0
53		67.9	67.9	67.9	67.9

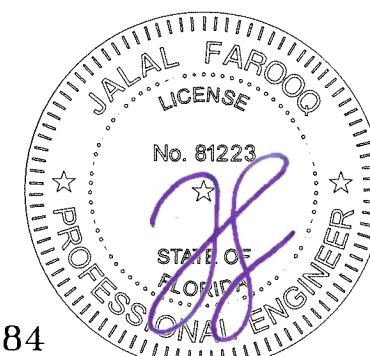
$$\text{NOMINAL PANEL WIDTH} = \frac{\text{WINDOW FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$

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

3/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

Sealed: 10/21/2024

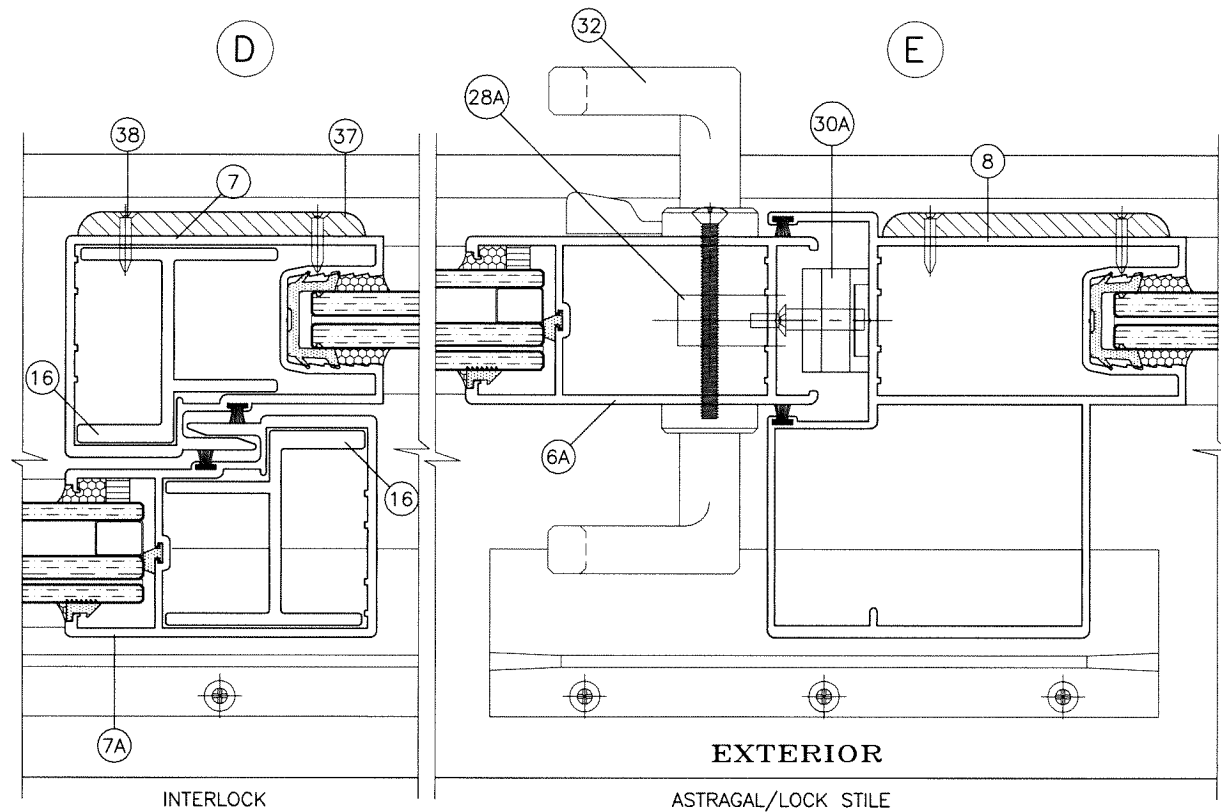
FL #47084



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drawing no.	24-78F			
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OPTION #2
ALUMINUM REINFORCING AT INTERLOCK

DESIGN LOAD CAPACITY - PSF REINFORCING AT INTERLOCK							
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'B' REVERSE	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	145.0	85.0	145.0	85.0	110.0
40		85.0	145.0	85.0	145.0	85.0	110.0
44		85.0	145.0	85.0	145.0	85.0	110.0
48		85.0	145.0	85.0	145.0	85.0	110.0
50		81.6	139.2	81.6	139.2	81.6	105.6
53		77.0	131.3	77.0	131.3	77.0	99.6
56		72.9	124.3	72.9	124.3	72.9	94.3
60	90	68.0	116.0	68.0	116.0	68.0	88.0
36		85.0	145.0	85.0	145.0	85.0	110.0
40		85.0	145.0	85.0	145.0	85.0	110.0
44		85.0	145.0	85.0	145.0	85.0	110.0
48		85.0	145.0	85.0	145.0	85.0	110.0
50		81.6	139.2	81.6	139.2	81.6	105.6
53		77.0	131.3	77.0	131.3	77.0	99.6
56		72.9	94.3	72.9	94.3	72.9	94.3
60		68.0	88.0	68.0	88.0	68.0	88.0

$$\text{NOMINAL PANEL WIDTH} = \frac{\text{WINDOW FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$

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

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FL #47084

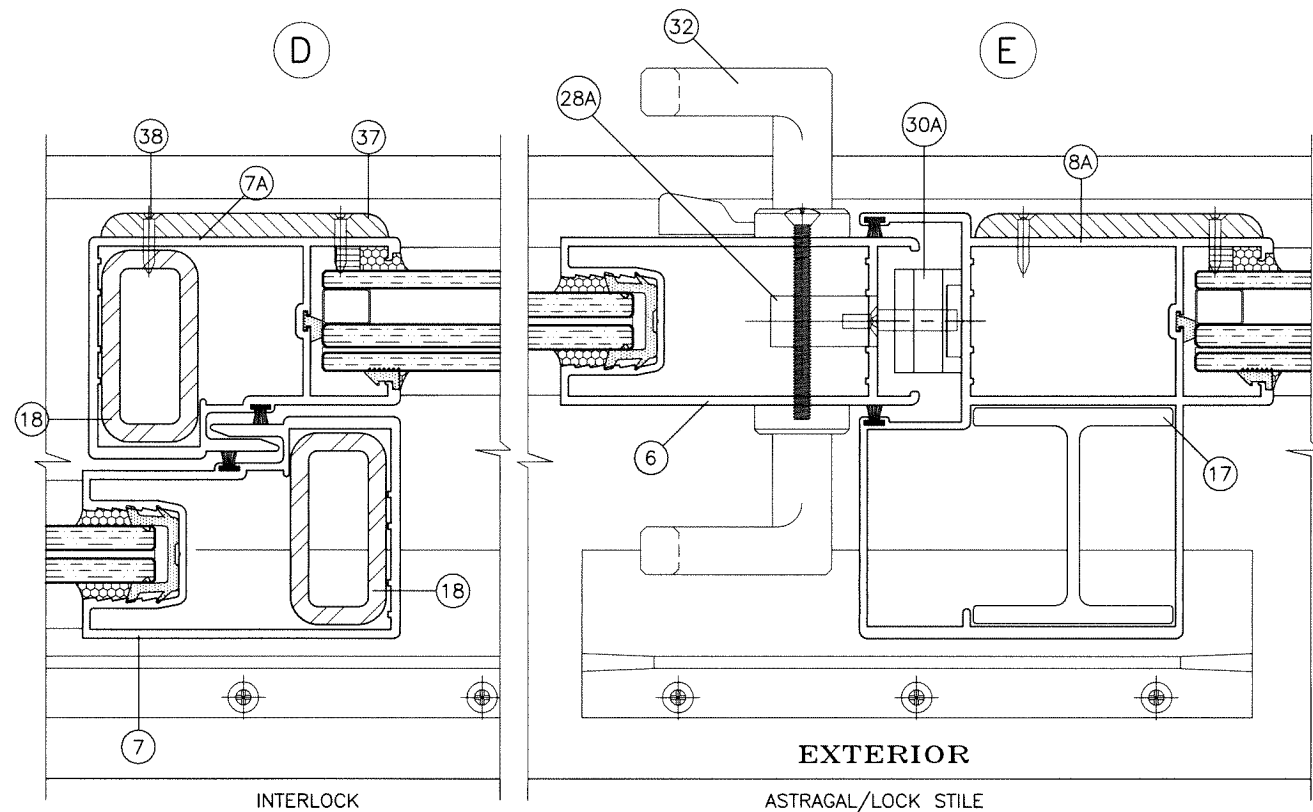


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COMP-ANL\24-78F-ES



OPTION #3
STEEL REINFORCING AT INTERLOCK
ALUMINUM REINFORCING AT ASTRAGAL

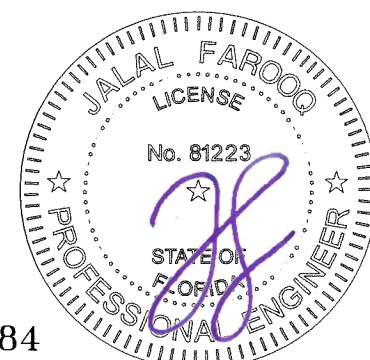
DESIGN LOAD CAPACITY - PSF REINFORCING AT INTERLOCK & ASTRAGAL							
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'B' REVERSE	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	82	85.0	130.0	85.0	130.0	85.0	110.0
40		85.0	130.0	85.0	130.0	85.0	110.0
44		85.0	130.0	85.0	130.0	85.0	110.0
48		85.0	130.0	85.0	130.0	85.0	110.0
50		81.6	124.8	81.6	124.8	81.6	105.6
53		77.0	117.7	77.0	117.7	77.0	99.6
56		72.9	111.4	72.9	111.4	72.9	94.3
60		68.0	104.0	68.0	104.0	68.0	88.0
36	90	85.0	130.0	85.0	130.0	85.0	110.0
40		85.0	130.0	85.0	130.0	85.0	110.0
44		85.0	130.0	85.0	130.0	85.0	110.0
48		85.0	130.0	85.0	130.0	85.0	110.0
50		81.6	124.8	81.6	124.8	81.6	105.6
53		77.0	117.7	77.0	117.7	77.0	99.6
56		72.9	111.4	72.9	111.4	72.9	94.3
60		68.0	104.0	68.0	104.0	68.0	88.0

$$\text{NOMINAL PANEL WIDTH} = \frac{\text{WINDOW FRAME WIDTH}}{\text{NUMBER OF PANELS}}$$

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

Sealed: 10/21/2024

FL #47084



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HEAD ANCHOR LOAD CAPACITY - PSF					
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	ANCHOR TYPE 'A'		ANCHOR TYPE 'B'	ANCHOR TYPE 'C'
		6 ANCHORS AT MTG. STILE ENDS	7 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		INT. (-)	INT. (-)	INT. (-)	INT. (-)
30	82	145.0	145.0	145.0	145.0
36		145.0	145.0	145.0	145.0
40		145.0	145.0	145.0	145.0
42		145.0	145.0	145.0	145.0
44		145.0	145.0	145.0	145.0
48		145.0	145.0	145.0	145.0
50		139.2	139.2	139.2	139.2
53		131.3	131.3	131.3	131.3
56	90	124.3	124.3	124.3	124.3
60		116.0	116.0	116.0	116.0
30		145.0	145.0	145.0	145.0
36		145.0	145.0	145.0	145.0
40		135.9	145.0	145.0	145.0
42		131.1	145.0	145.0	145.0
44		126.8	145.0	145.0	145.0
48		119.5	139.4	145.0	145.0
50		116.3	135.7	139.2	139.2
53		112.1	130.0	131.3	131.3
56		94.3	94.3	94.3	94.3
60		88.0	88.0	88.0	88.0

EXT.(+) Dp = 85 PSF MAX.

NOMINAL PANEL WIDTH = $\frac{\text{WINDOW FRAME WIDTH}}{\text{NUMBER OF PANELS}}$

NOTE:
SEE SHEETS 3 THRU 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
USING CHART ON THIS SHEET SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN
DESIGN LOADS REQUIRED.
LOWER DESIGN PRESSURES FROM GLASS OR HEAD, SILL, JAMB ANCHOR CHARTS WILL
APPLY TO ENTIRE SYSTEM.

SILL ANCHOR LOAD CAPACITY - PSF			
PANEL WIDTH NOMINAL INCHES	WDW. FRAME HEIGHT INCHES	ANCHOR TYPE 'B'	
		4 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT MTG. STILE ENDS
		INT. (-)	INT. (-)
30	82	145.0	145.0
36		145.0	145.0
40		145.0	145.0
42		145.0	145.0
44		145.0	145.0
48		145.0	145.0
50		139.2	139.2
53		131.3	131.3
56	90	124.3	124.3
60		116.0	116.0
30		145.0	145.0
36		145.0	145.0
40		145.0	145.0
42		142.6	145.0
44		138.0	145.0
48		130.0	145.0
50		126.6	139.2
53		122.0	131.3
56		94.3	94.3
60		88.0	88.0

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
1-1/2" MIN. EMBED INTO CONCRETE

TYPE 'B'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED

TYPE 'C'- #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(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)

----- AT SILL -----

TYPE 'B'- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE
1-3/4" 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'- #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(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)

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 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

Sealed: 10/21/2024

FL #47084



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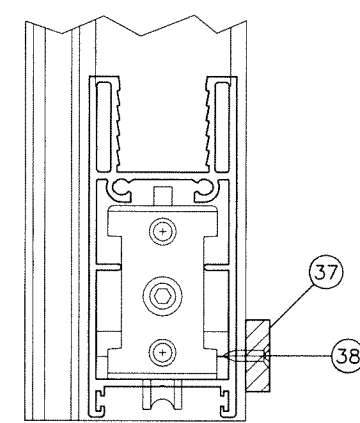
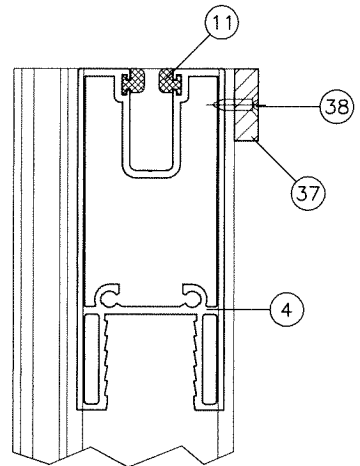
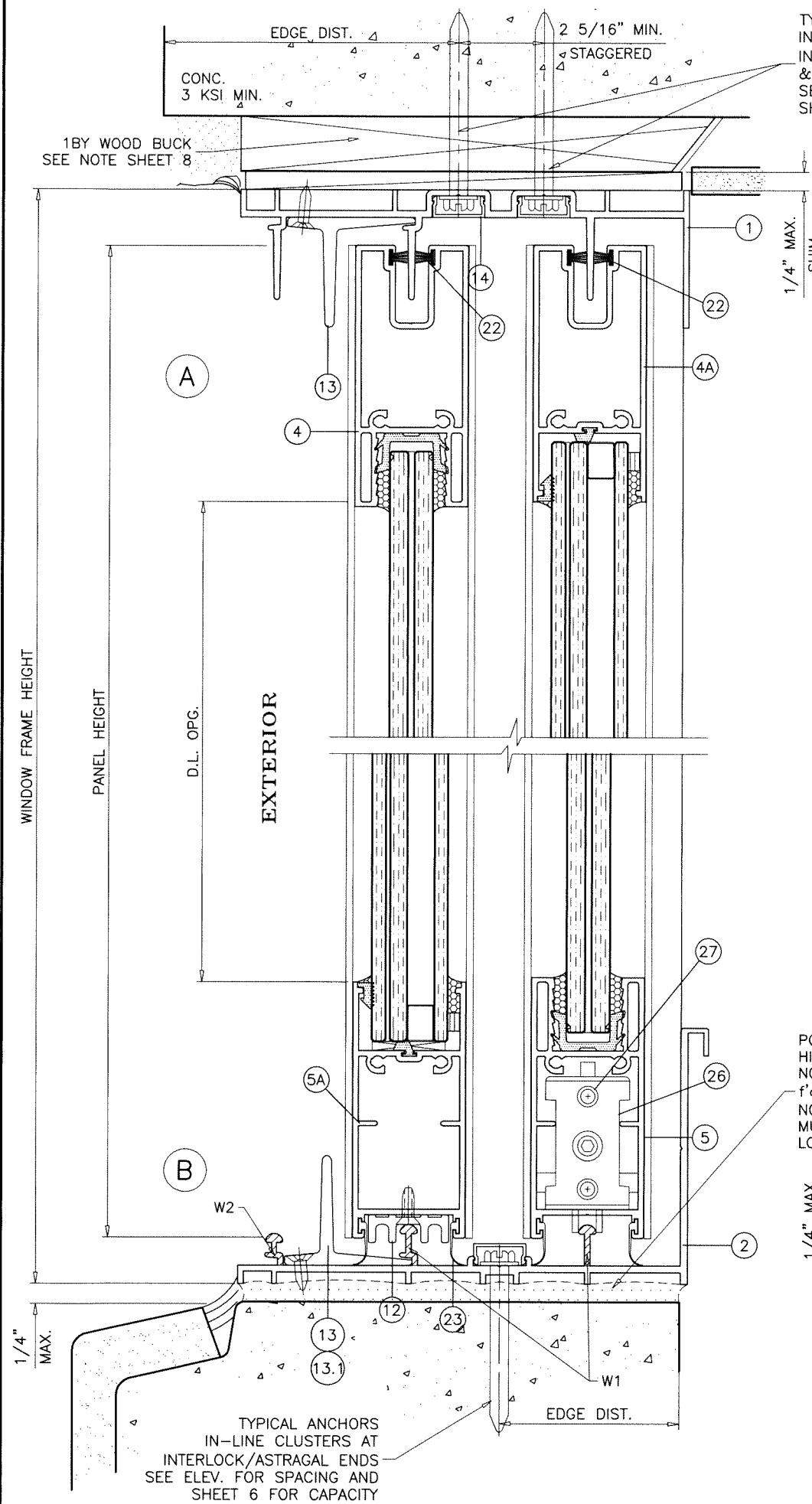
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drawing no.

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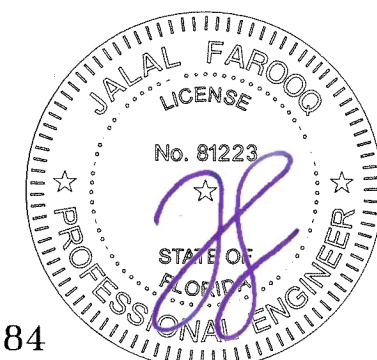
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

WEEPHOLES:

W1 = 2-5/8" LONG WEEP NOTCH AT EACH END
W2 = 1" LONG WEEP NOTCH AT EACH END

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FL #47084



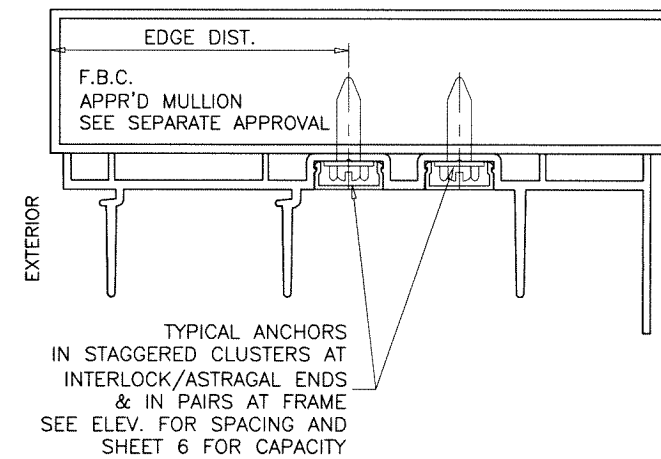
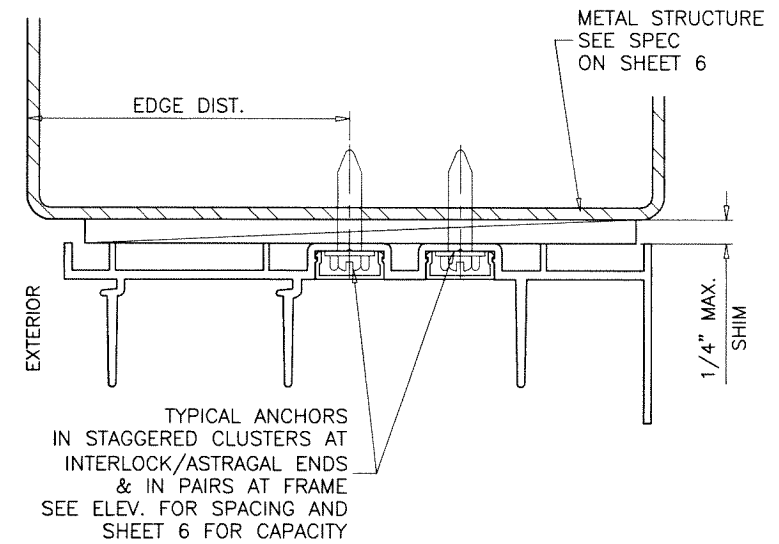
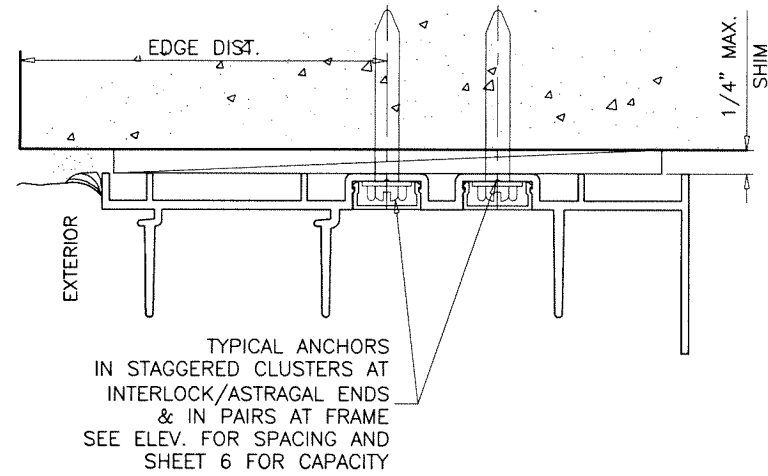
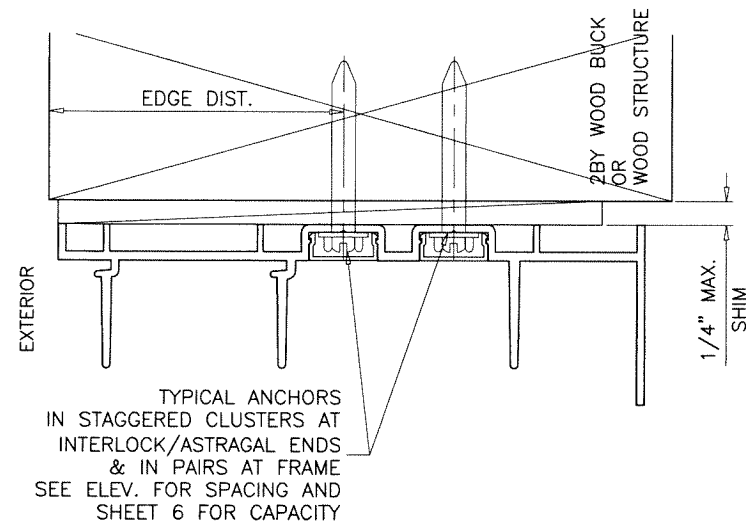
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 24-78F-ES

SERIES-6000 ALUM SLIDING GLASS WINDOW (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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dr. by: TARIQ
chk. by:

drawing no.
24-78F
sheet 7 of 13



PROPERLY SECURED 1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY 'E.S. WINDOWS' MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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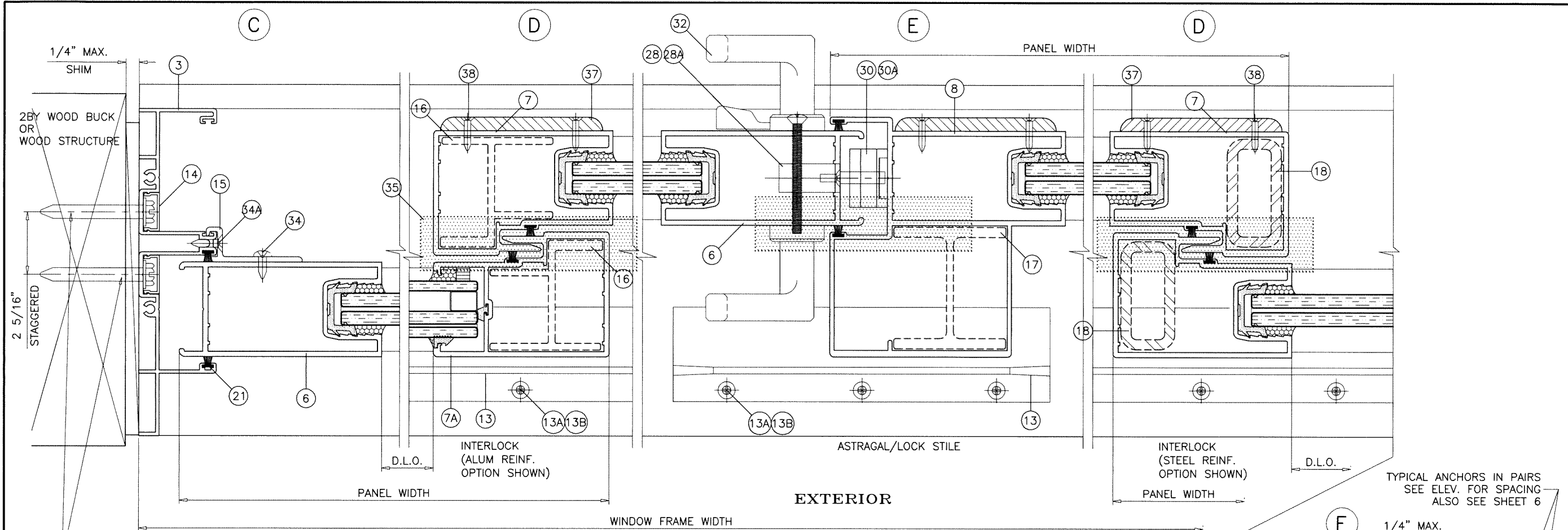
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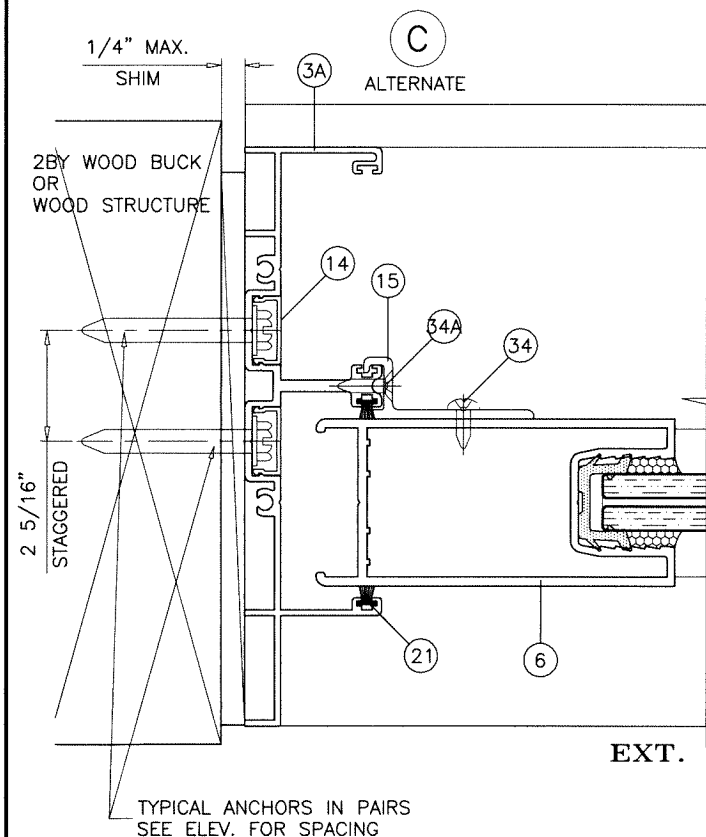
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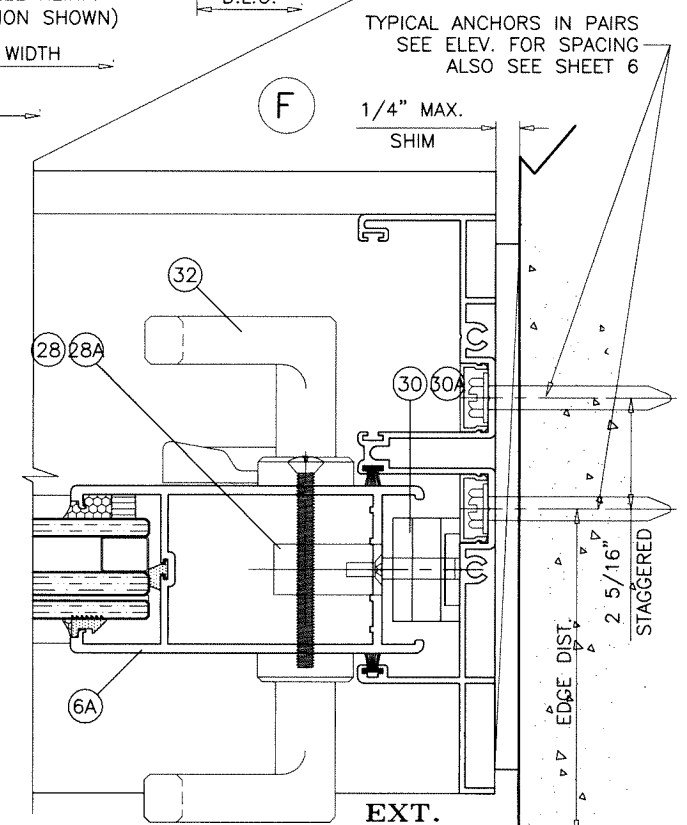
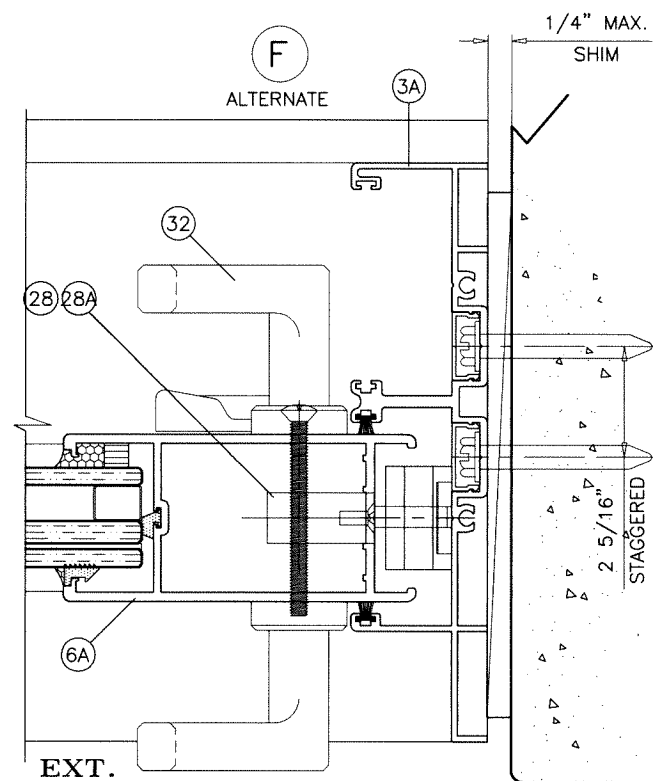


TYPICAL ANCHORS IN PAIRS
SEE ELEV. FOR SPACING

ALUMINUM OR STEEL REINFORCING AT INTERLOCK AND ALUM REINF. ASTRAGAL/LOCK STILES
SHOWN FOR ILLUSTRATION ONLY.
USE AS SHOWN ON SHEETS 4 & 5.
SEE CHARTS FOR REINFORCING OPTIONS LOAD CAPACITY, INCLUDING GLASS OPTIONS.
SEE ELEVATION FOR ANCHOR SPACING AND SHEET 6 FOR ANCHOR CAPACITY.



TYPICAL ANCHORS IN PAIRS
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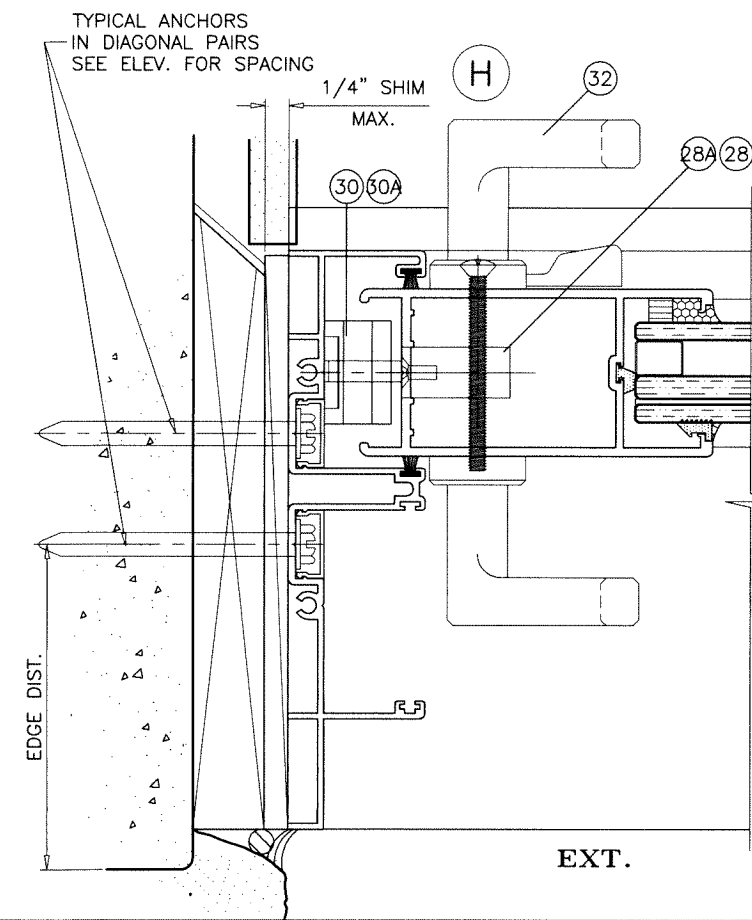
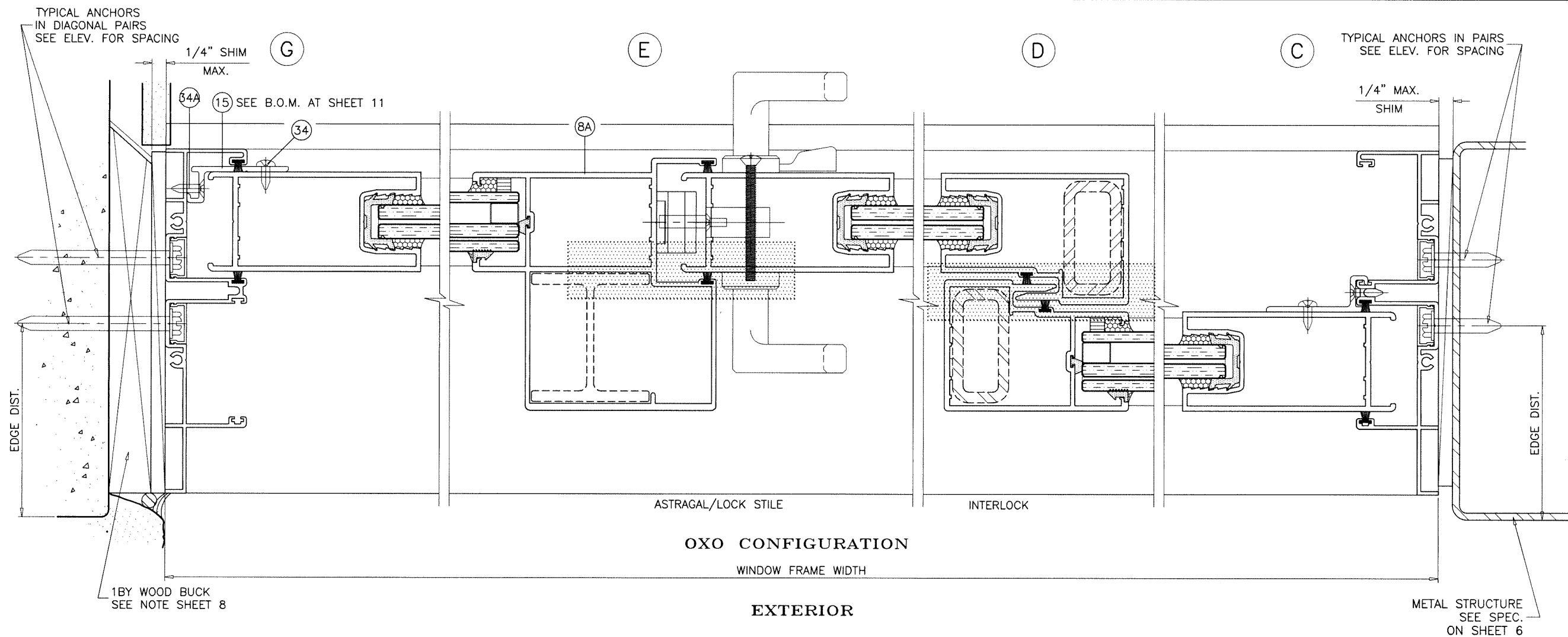
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revisions:

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drawing no.
24-78F
sheet 9 of 13



ALUMINUM AND STEEL REINFORCING AT INTERLOCK AND ASTRAGAL/LOCK STILES SHOWN FOR ILLUSTRATION ONLY.
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 (C.A.N. 3538)

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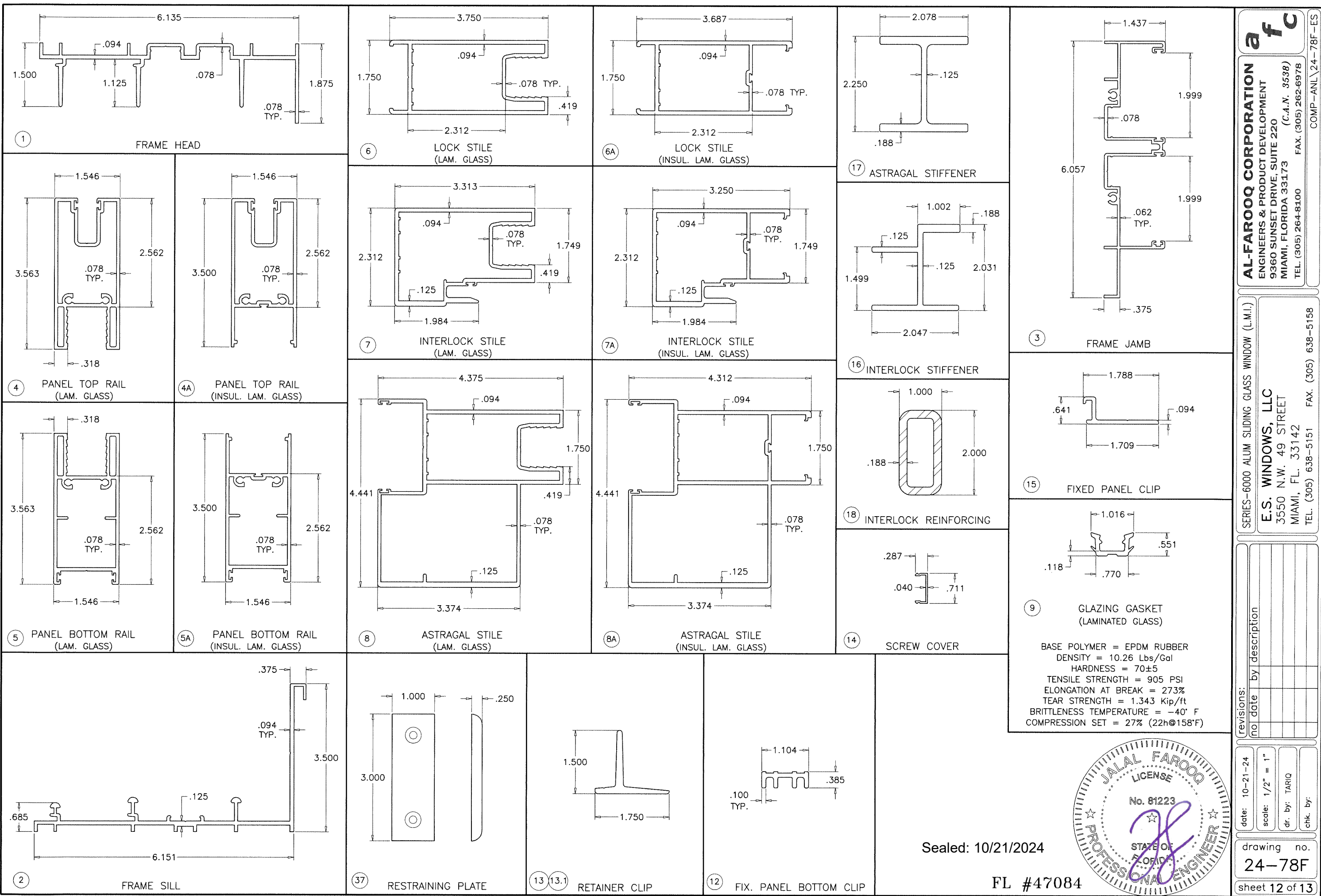
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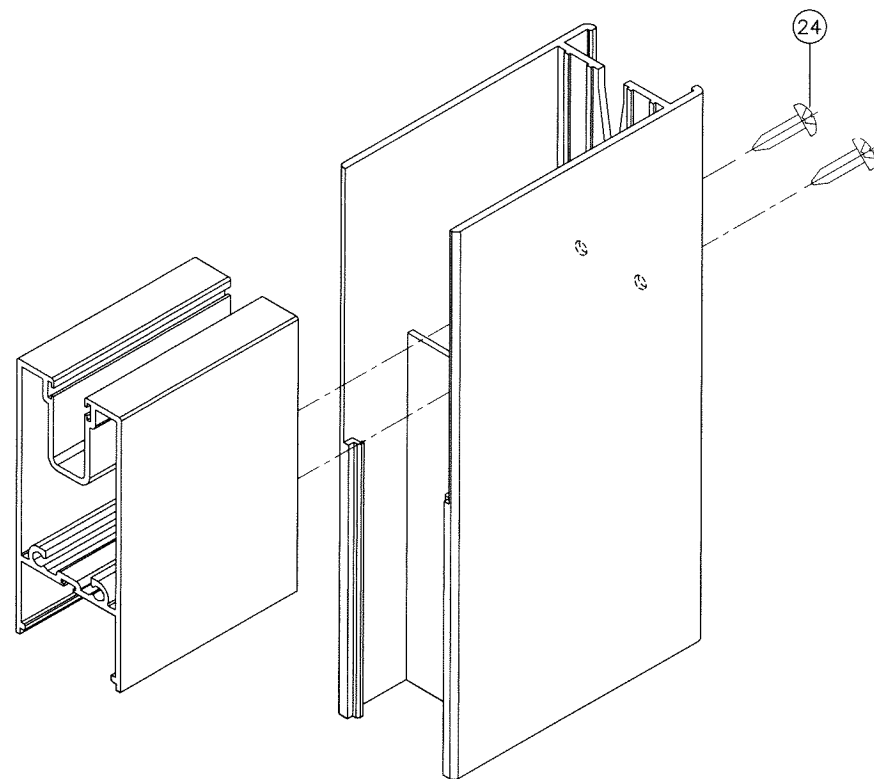
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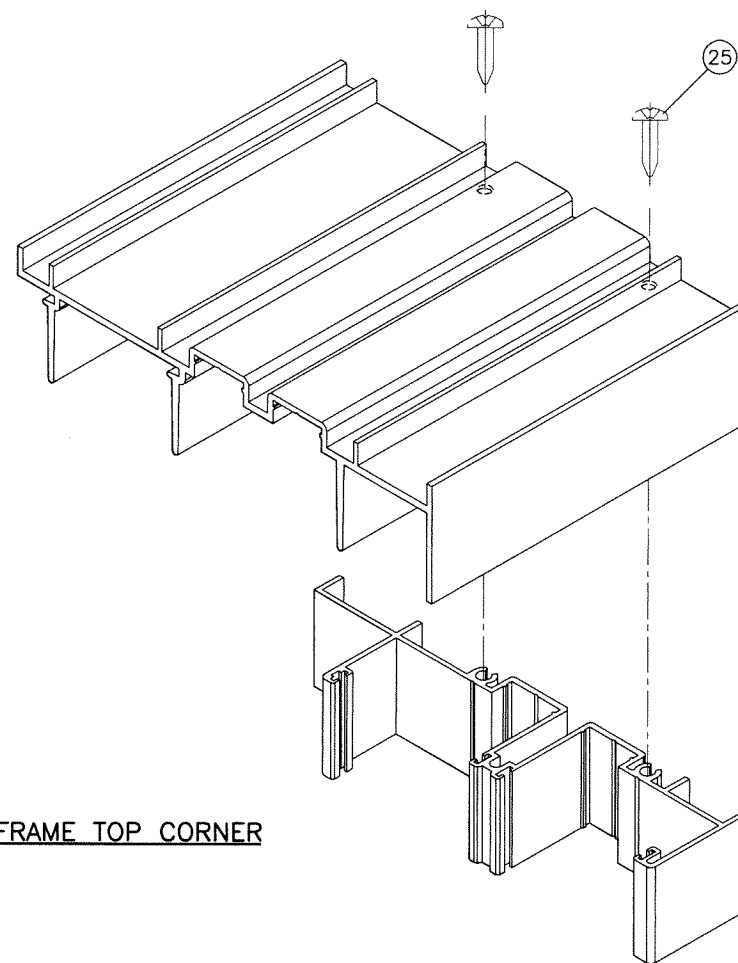
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 sheet 10 of 13



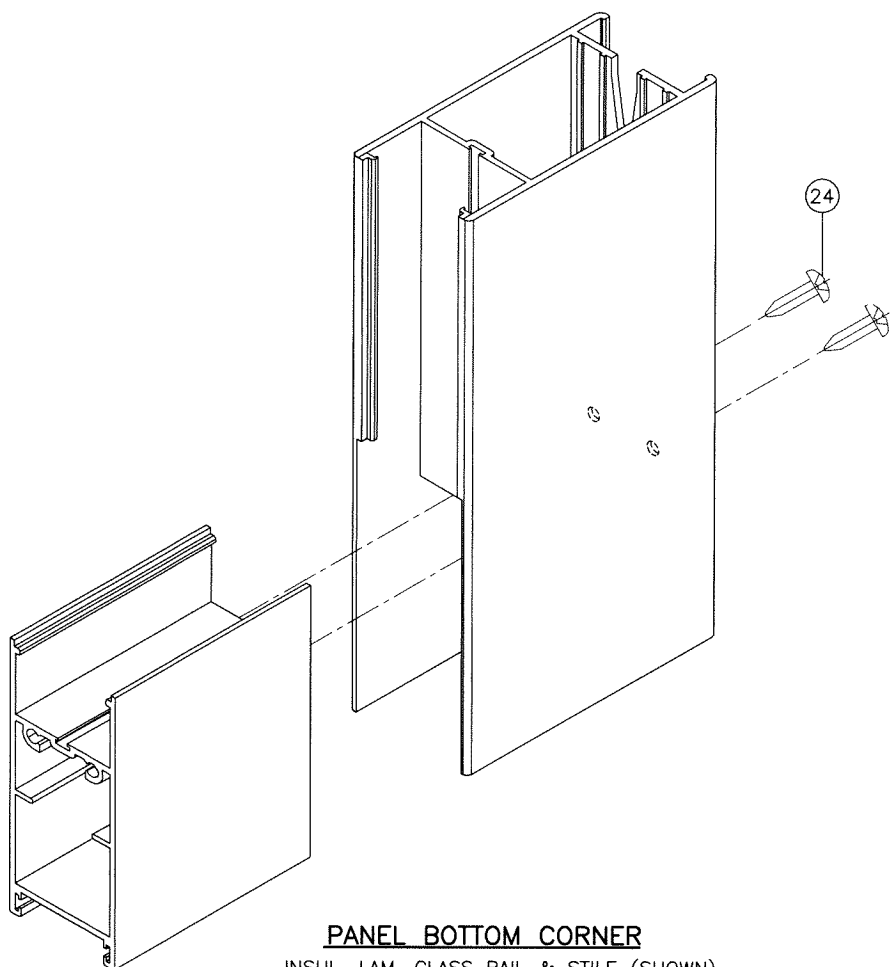


PANEL TOP CORNER

INSUL. LAM. GLASS RAIL & STILE (SHOWN)
LAM. GLASS RAIL & STILE (SIMILAR)

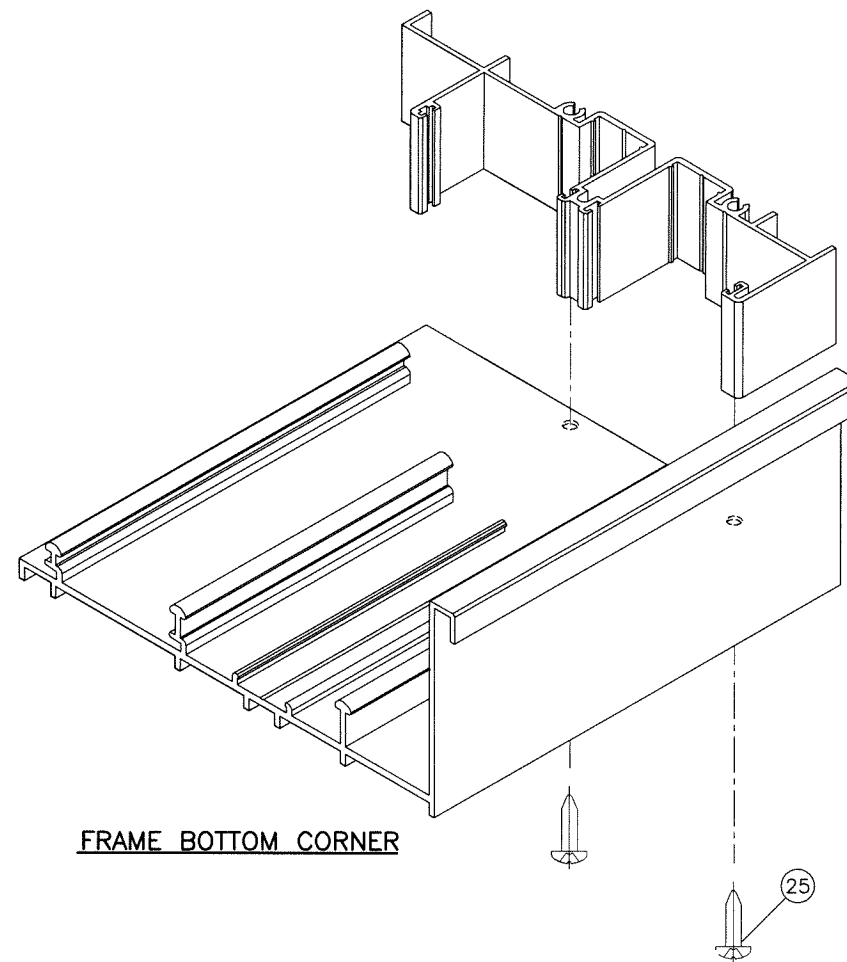


FRAME TOP CORNER

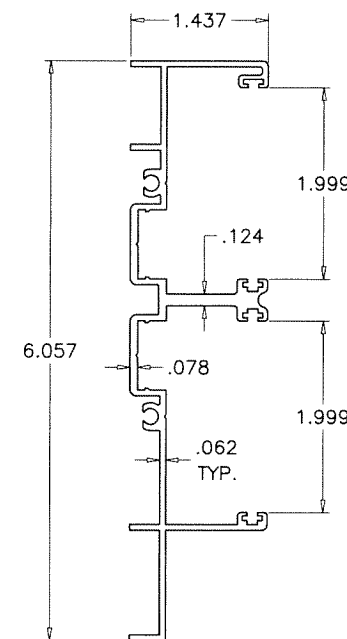


PANEL BOTTOM CORNER

INSUL. LAM. GLASS RAIL & STILE (SHOWN)
LAM. GLASS RAIL & STILE (SIMILAR)



FRAME BOTTOM CORNER

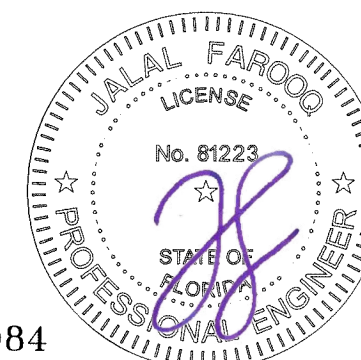


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ALT. FRAME JAMB

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sheet 13 of 13