

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

ES-SW340 (L.M.I.)

THERMAL ALUMINUM HORIZONTAL SLIDING WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE
COMBINATIONS OF H.R./H.R. OR HORIZ. SLIDING WITH OTHER
WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING
F.B.C. APPROVED MULLIONS IN BETWEEN.
LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL
WILL APPLY TO ENTIRE SYSTEM.

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)'.

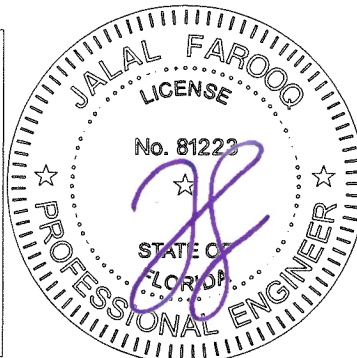
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.

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: 9/18/2026

FL #20383

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

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
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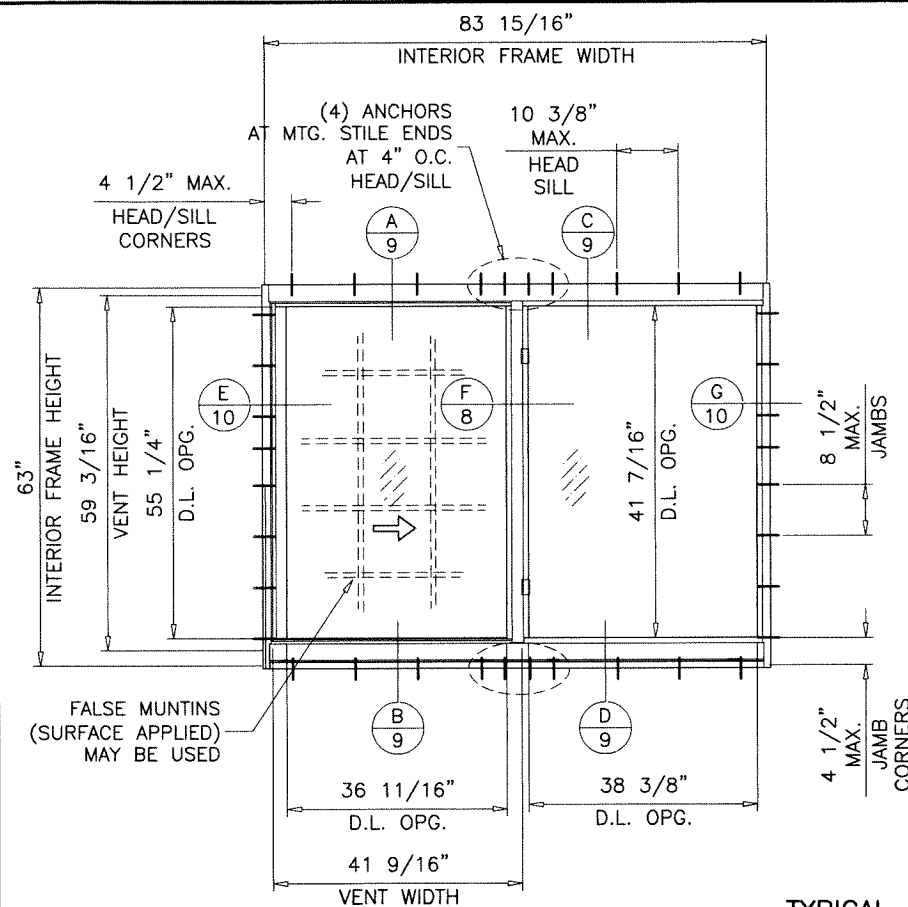
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A	02.07.18				UPDATED TO 2017 FBC
B	10.30.20				UPDATED TO 2020 FBC
C	04.02.21				NAIL FIN OPTION ADDED
D	10.06.23				UPDATED TO 2023 FBC
E	09.16.26				UPDATED TO 2026 FBC

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chk. by:

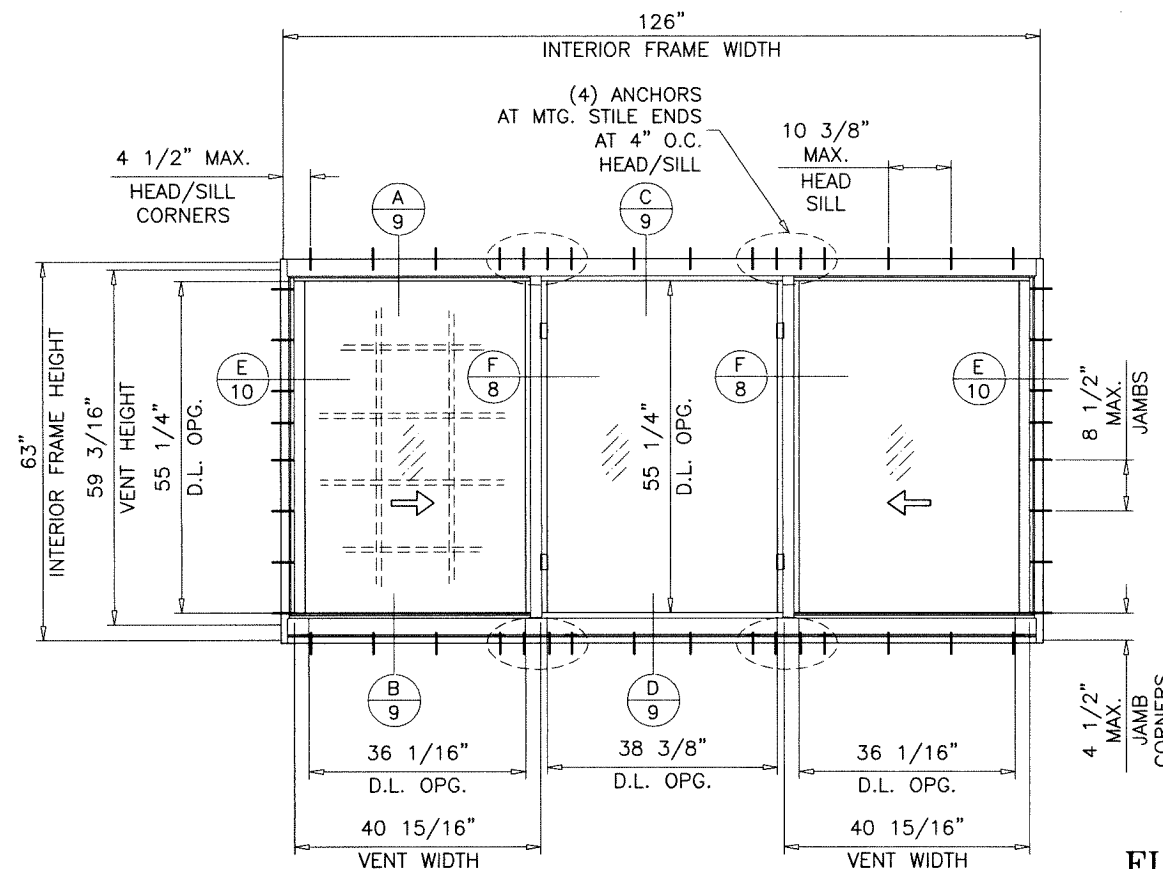
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W16-23

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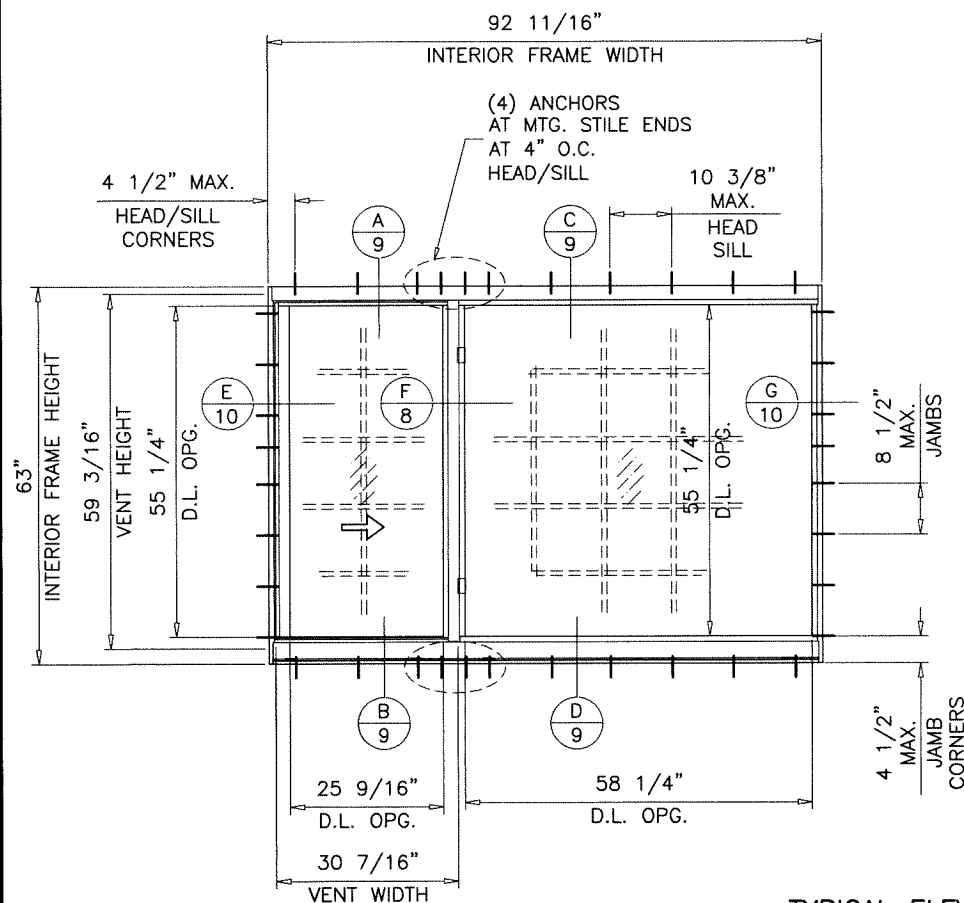


TYPICAL ELEVATIONS
(EQUAL LITES)

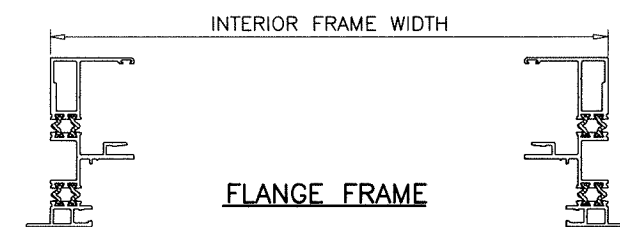
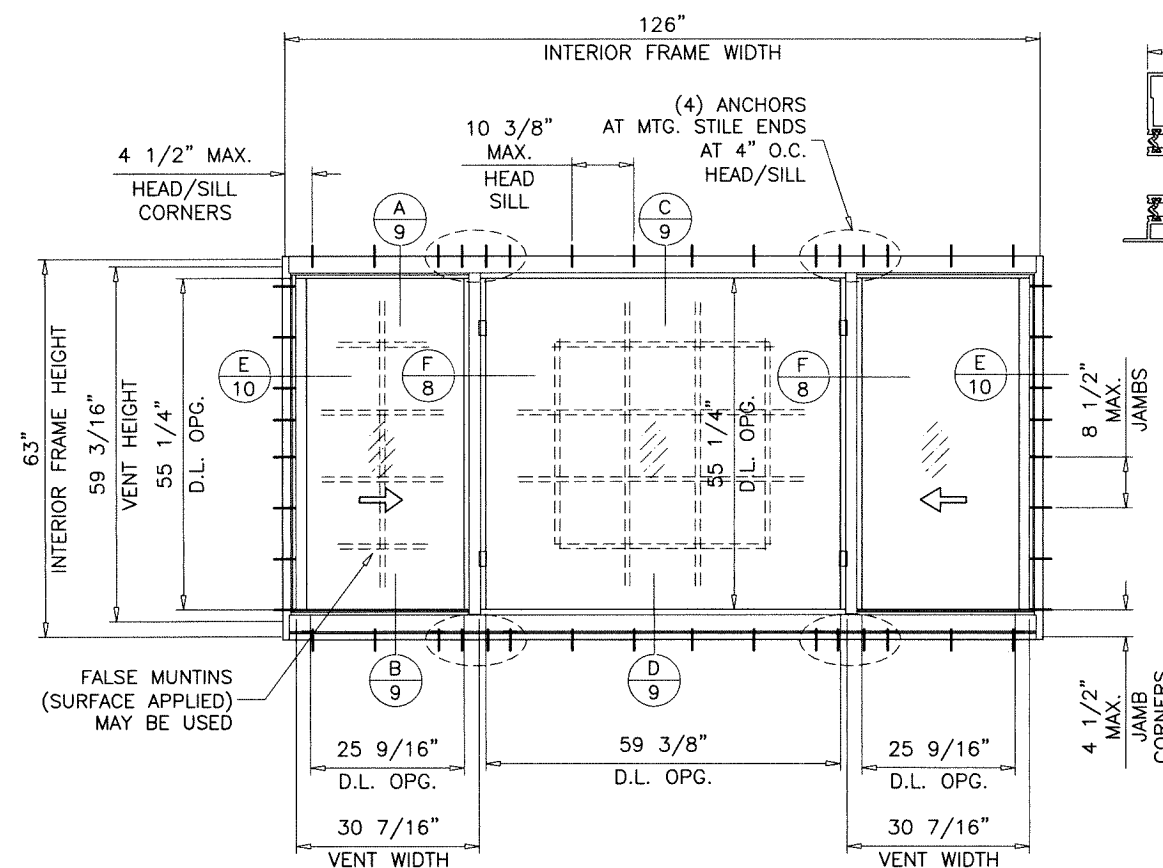


FLANGE FRAMES

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
(FOR SIZES SHOWN OR SMALLER) - 90.0 PSF
ALTERNATE SIZES CAN NOT EXCEED VENT OR FIXED SIZES
OF SHOWN ELEVATIONS.



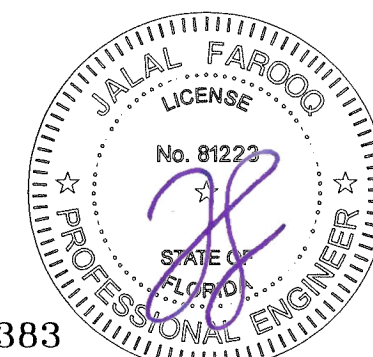
TYPICAL ELEVATIONS
(UNEQUAL LITES)



FLANGE FRAME

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

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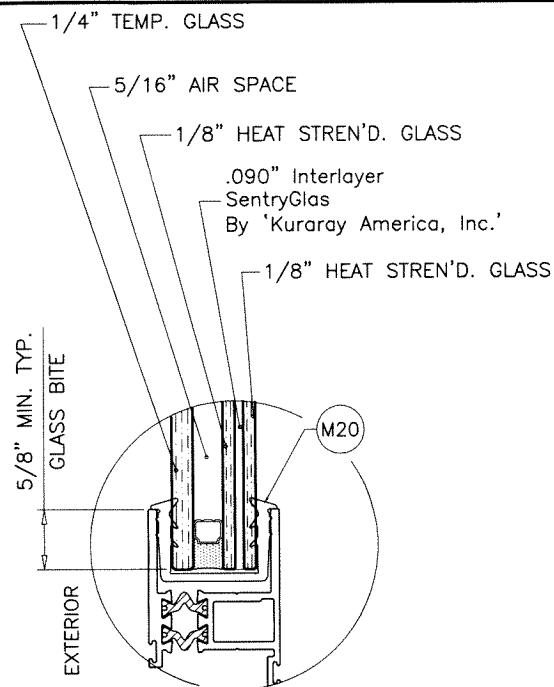
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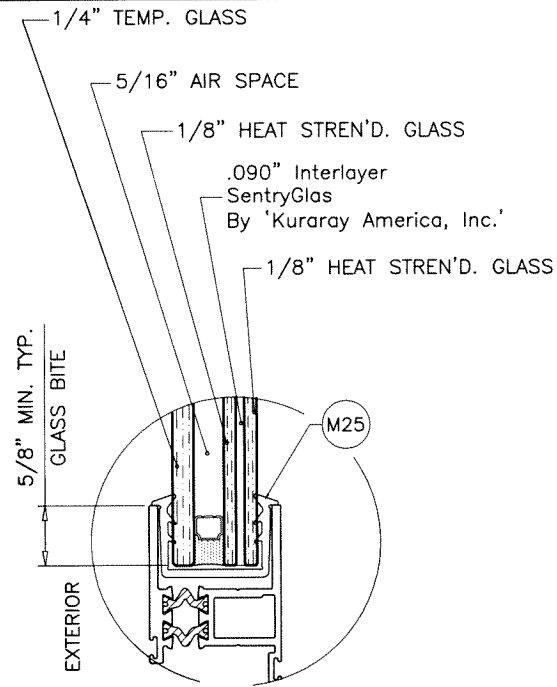
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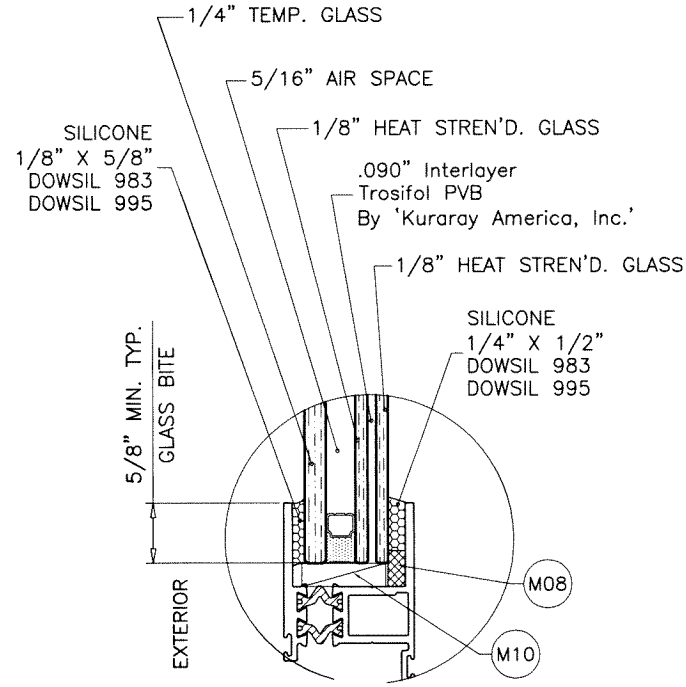
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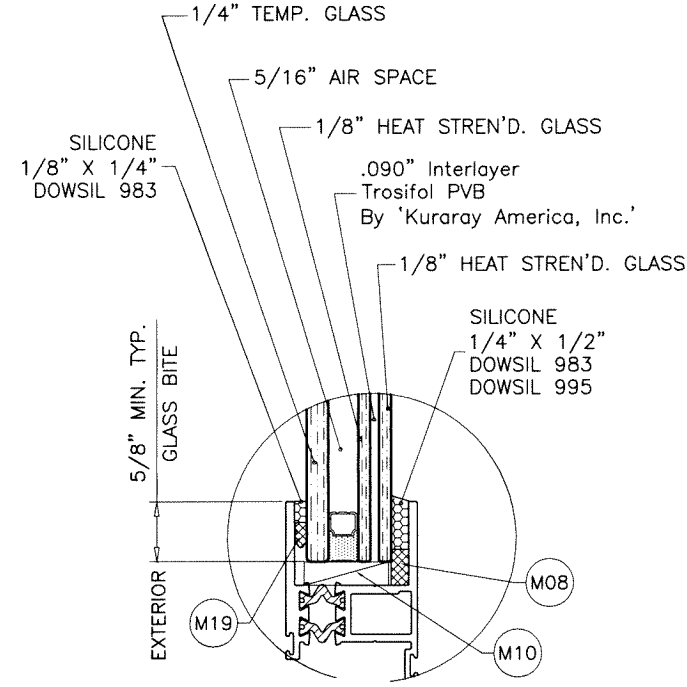
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(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



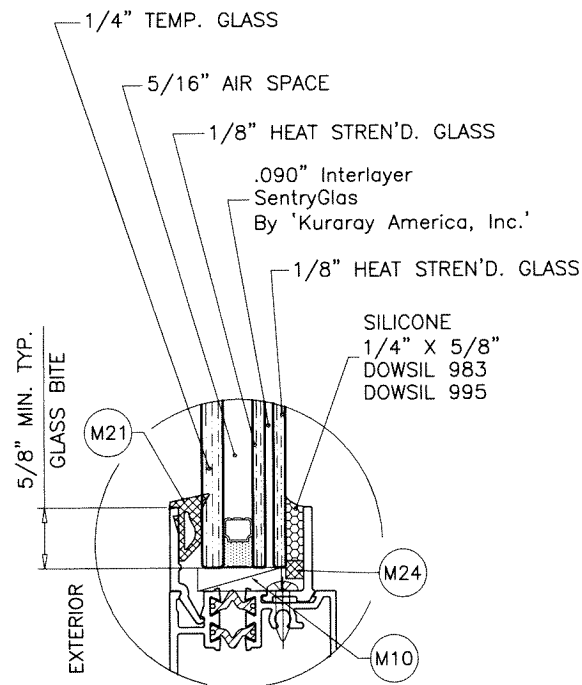
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(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



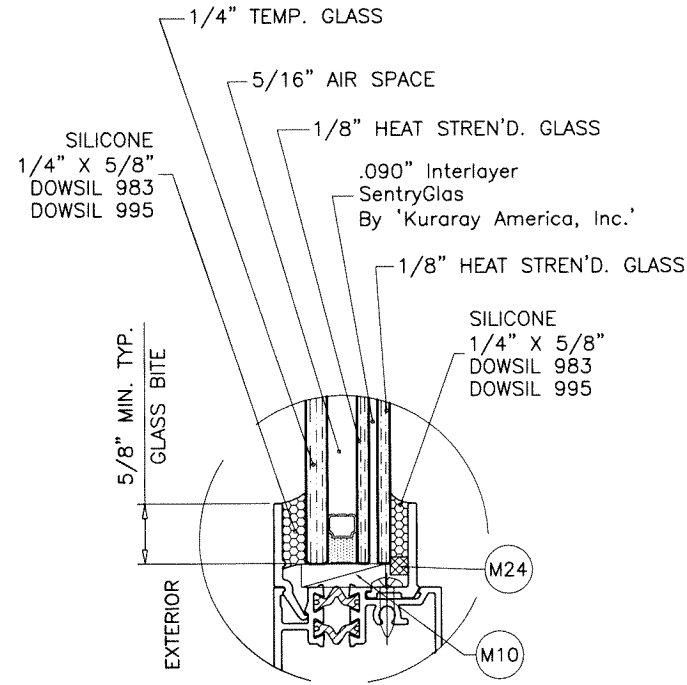
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(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



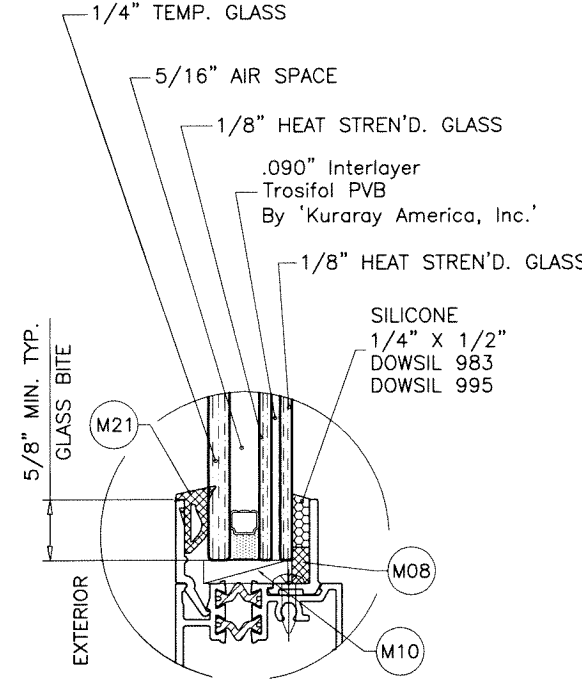
VENT
(EQUAL LITES ONLY)
(MAX. DESIGN LOAD = +70.0, -75.0 PSF)



FIX. LITE
(EQUAL & UNEQUAL LITES)
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



FIX. LITE
(EQUAL & UNEQUAL LITES)
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



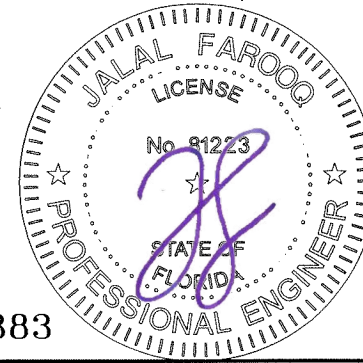
FIX. LITE
(EQUAL LITES ONLY)
(MAX. DESIGN LOAD = +70.0, -75.0 PSF)

5/16" 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

GLAZING DETAILS
7/8" OVERALL INSUL. LAM. GLASS

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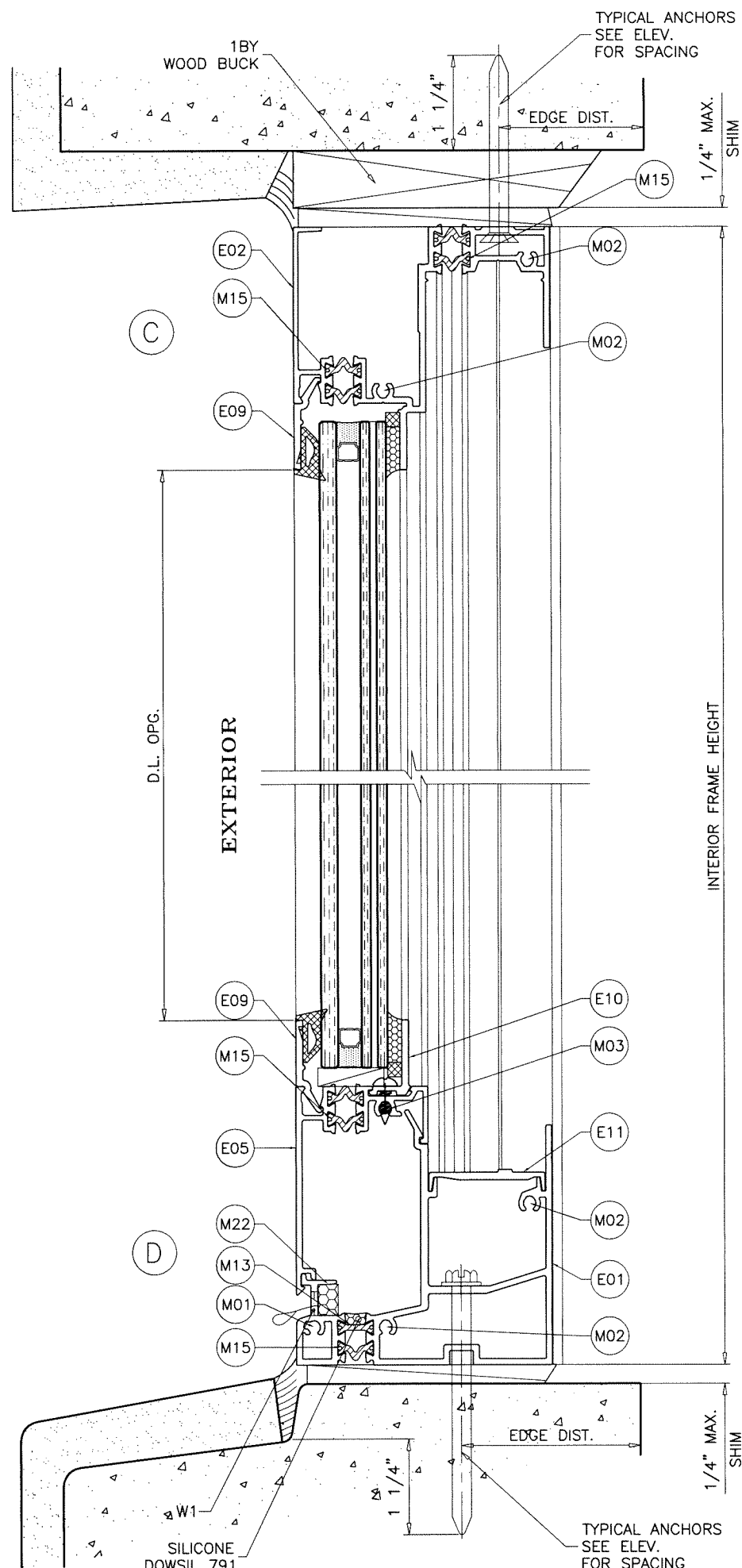
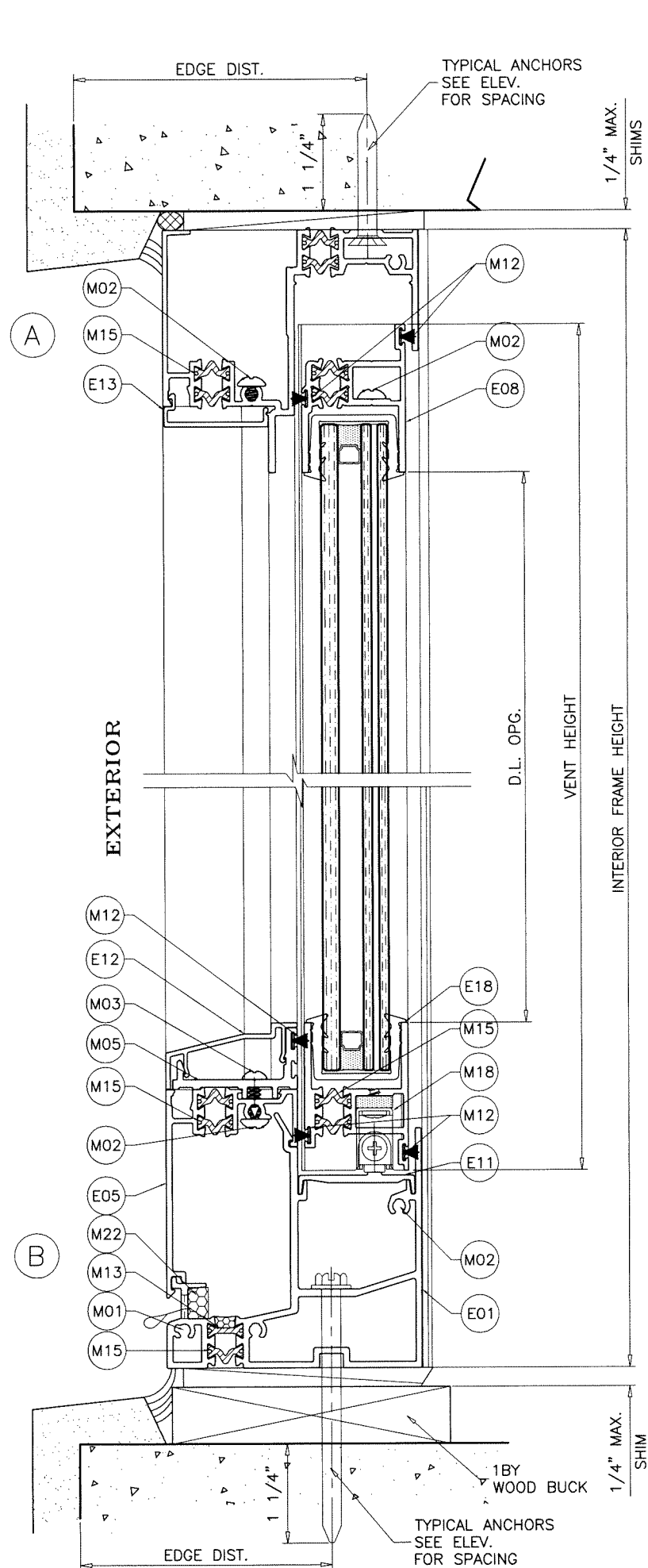


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drawing no.
W16-23
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WEEPHOLES:

- W1 = (2) 3/16" X 2" WEEPHOLES AT EACH VENT
- (2) 3/16" X 2" WEEP HOLES AT FIX. LITE

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W16-23
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WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WINDOWS'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#14 DIA. CRETE-FLEX SS4 BY 'DEWALT' (Fu=190 KSI, Fy=127 KSI)

1/4" DIA. AGGRE-GATOR 300 BY 'DEWALT' (Fu=96 KSI, Fy=57 KSI)

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)

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

DIRECTLY INTO CONC. OR BLOCKS

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

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

1/4" DIA. ULTRACON SS4 410 BY 'DEWALT' (Fu=190 KSI, Fy=164 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)

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

DIRECTLY INTO CONC. OR BLOCKS

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

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

1/4" DIA. BI-FLEX 300 SELF DRILLING SCREWS BY 'DEWALT' (Fu=96 KSI, Fy=57 KSI)

1/4" DIA. DRIL-FLEX SELF DRILLING SCREWS BY 'DEWALT' (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS

OR

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)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

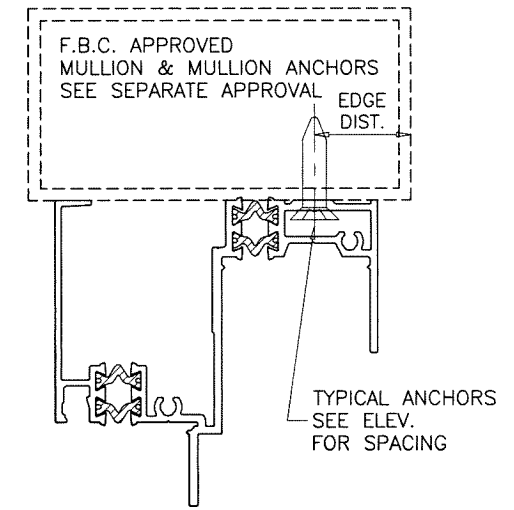
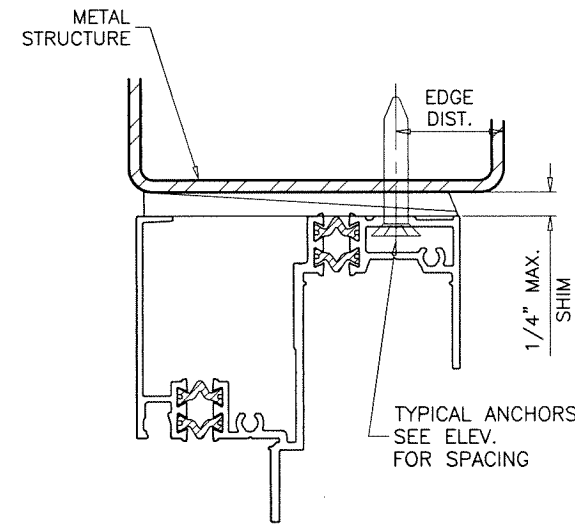
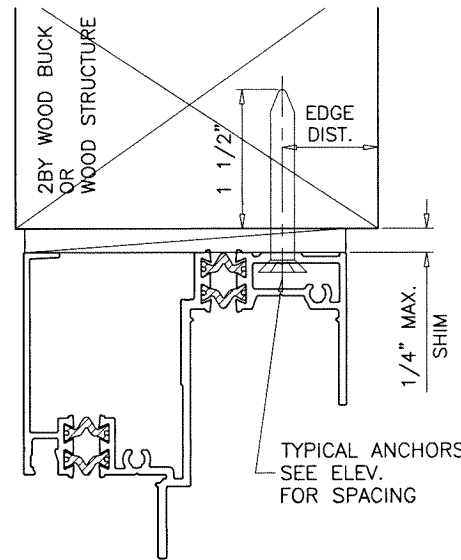
INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

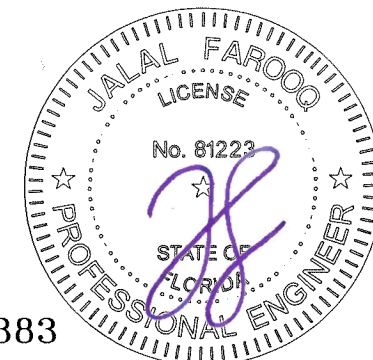
WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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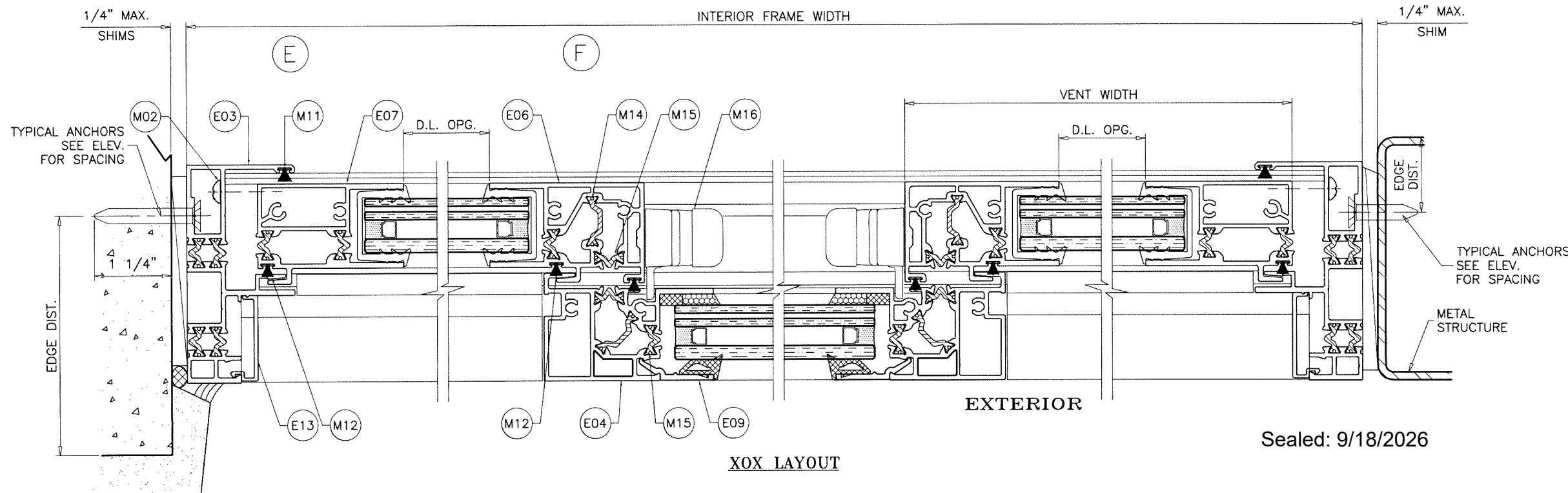
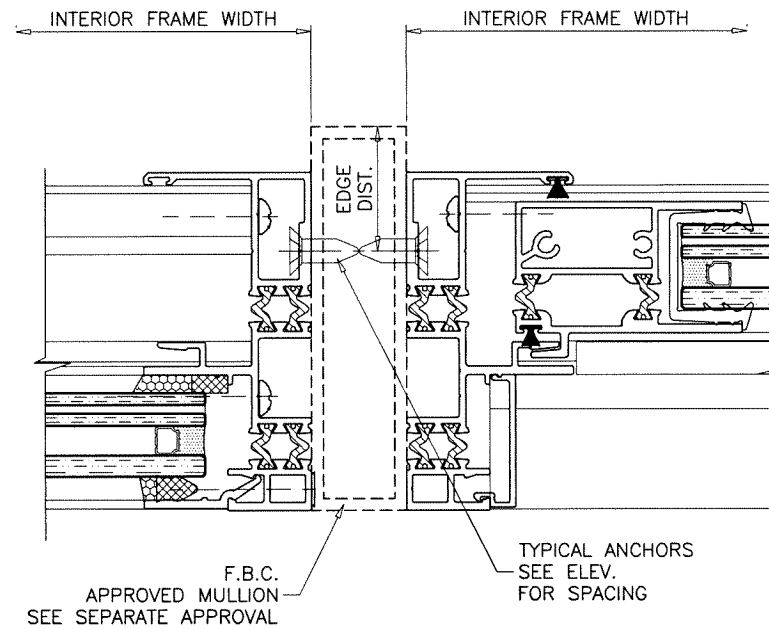
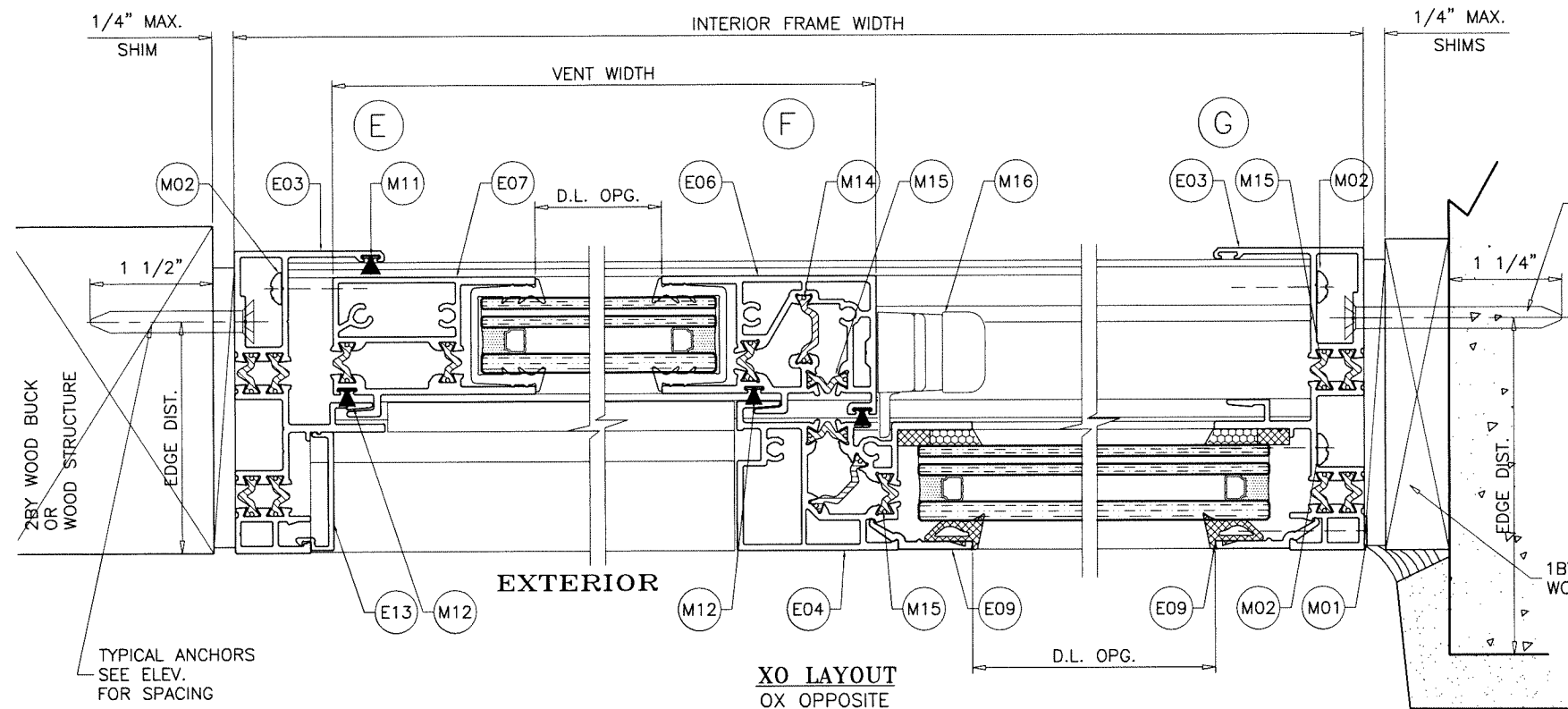
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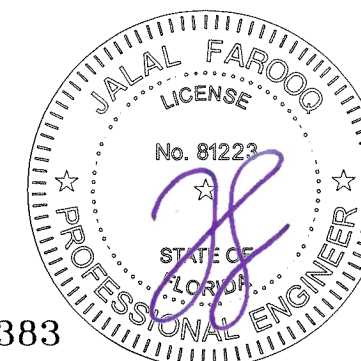
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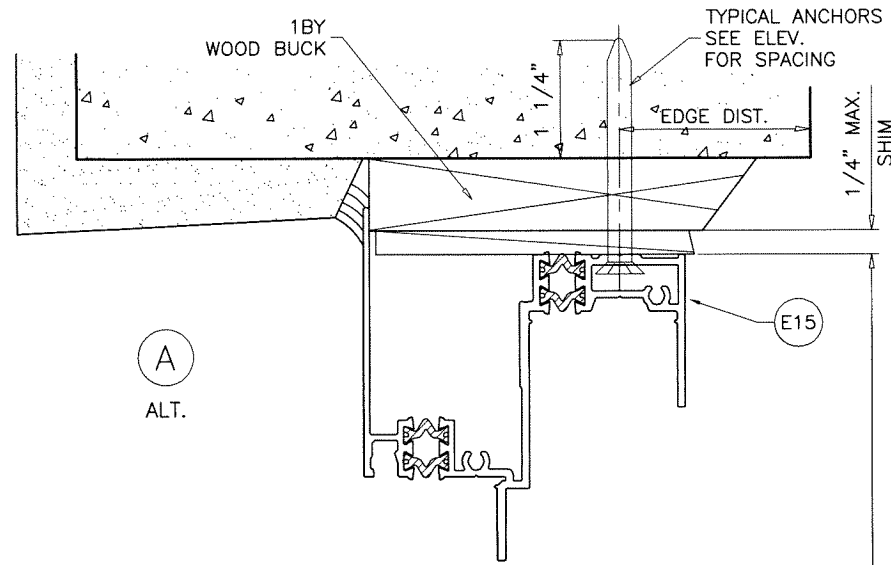
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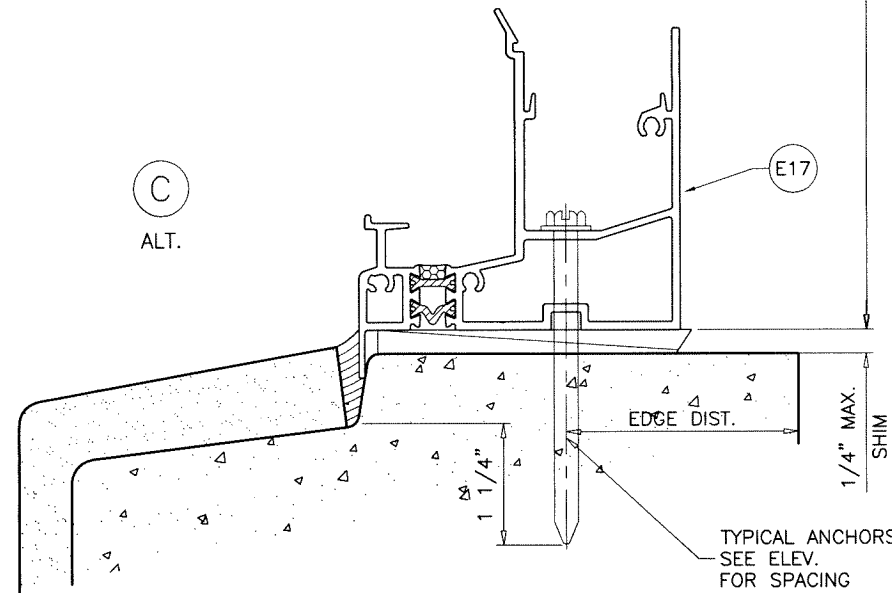
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EXTERIOR

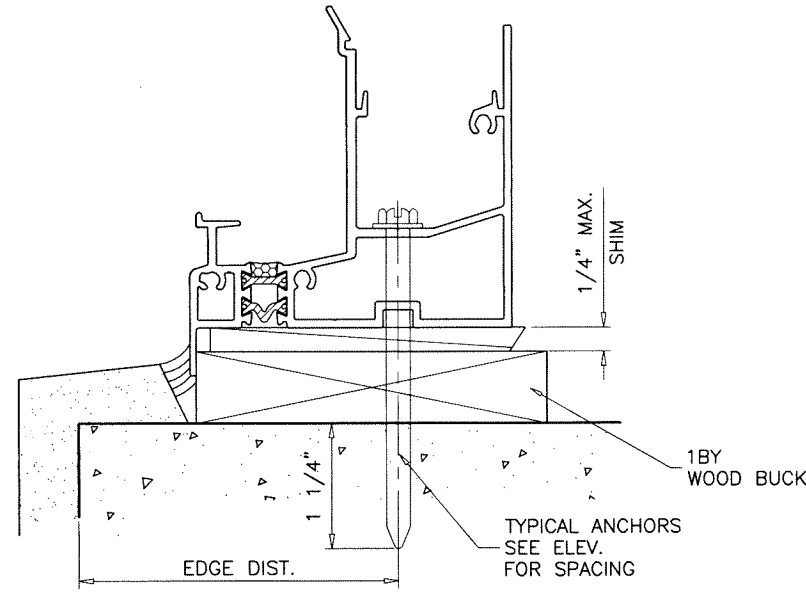
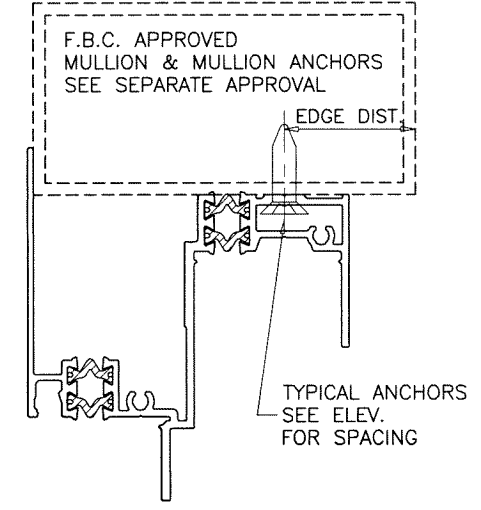
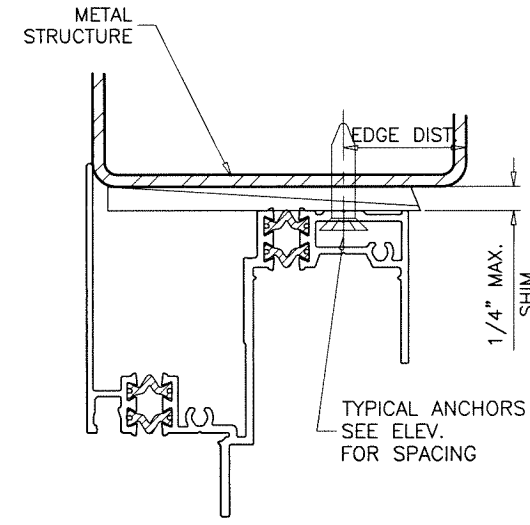
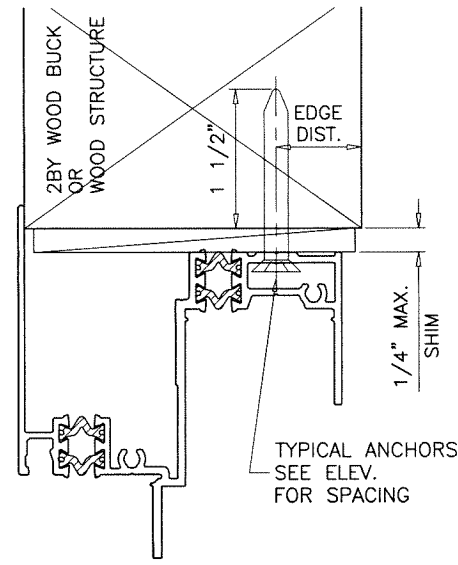
(A)
ALT.



(C)
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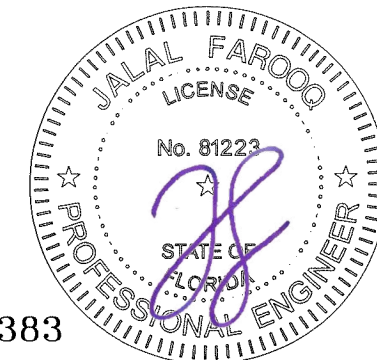
INTERIOR FRAME HEIGHT



INSTALLATION DETAILS FLANGE FRAMES
SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

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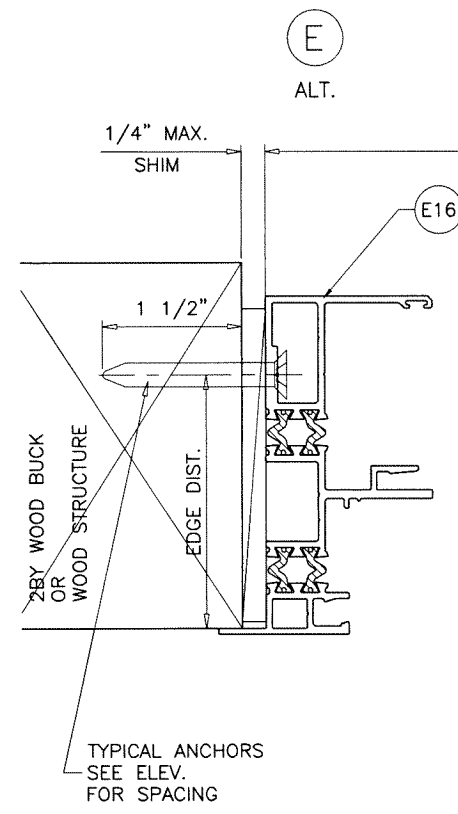
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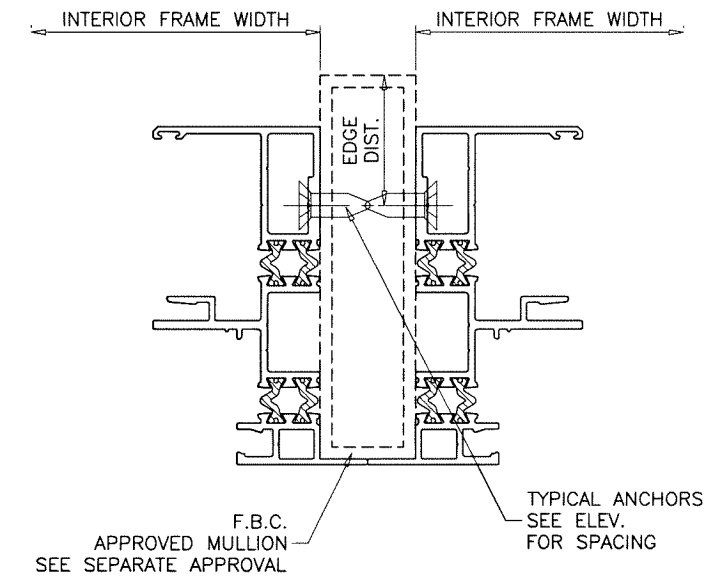
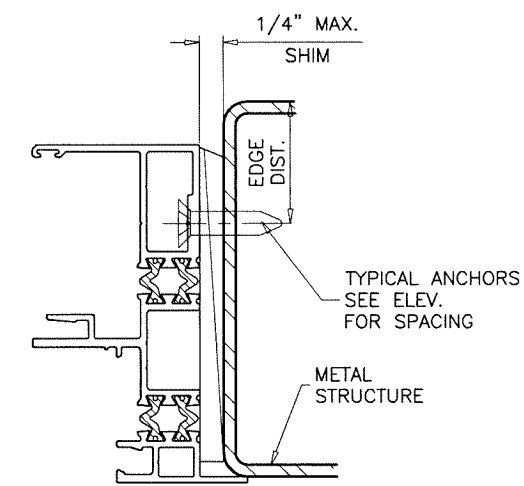
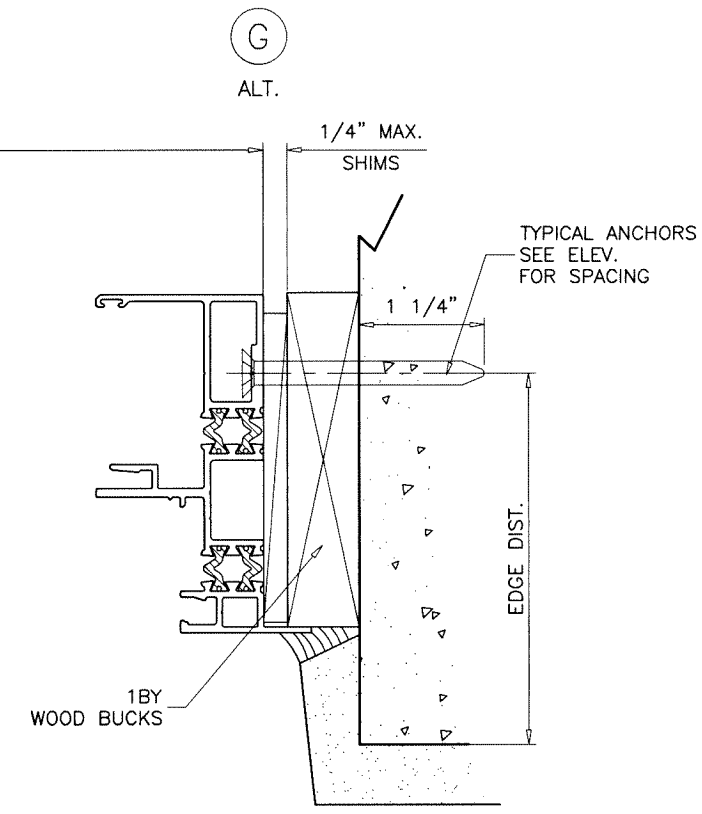
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W16-23
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COMP-ANL W16-23-ES



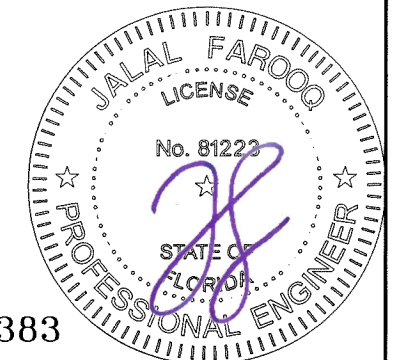
EXTERIOR



INSTALLATION DETAILS FLANGE FRAMES
SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

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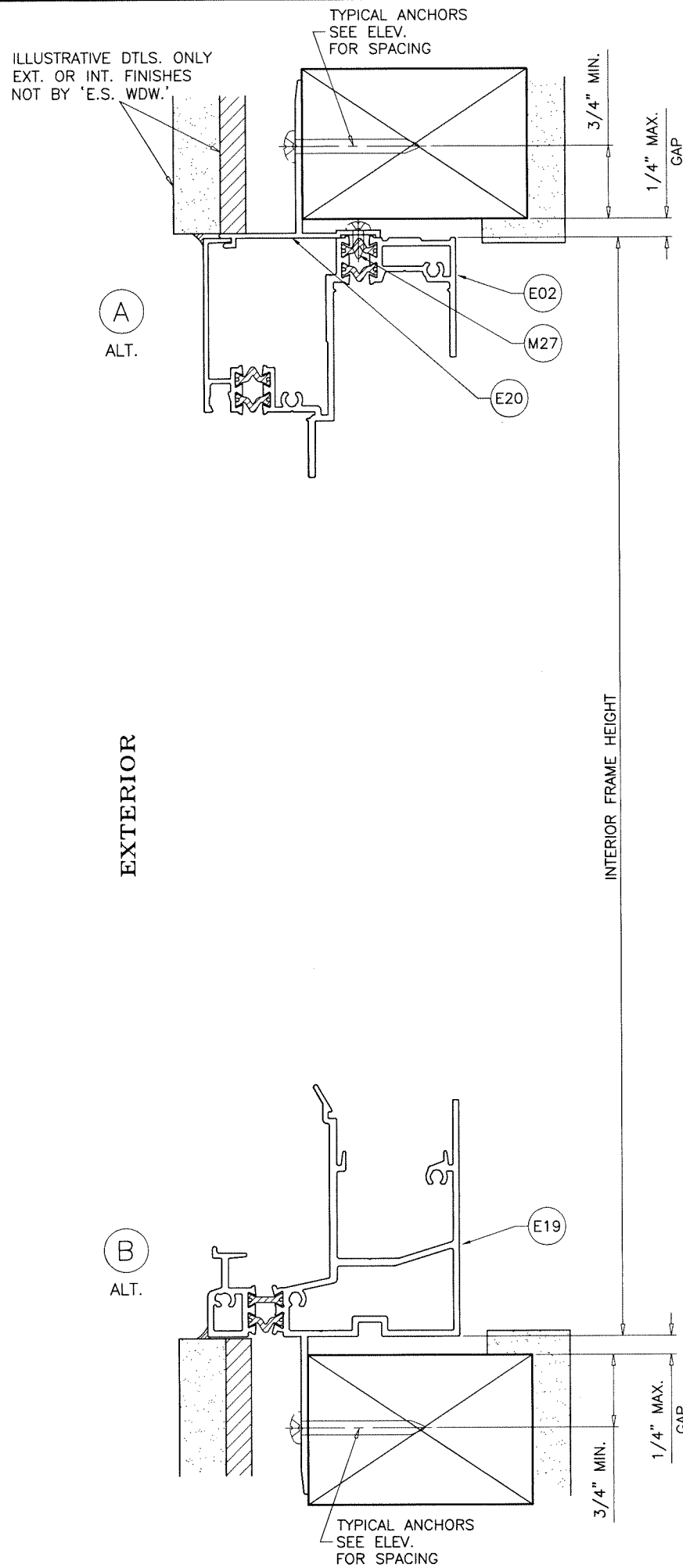
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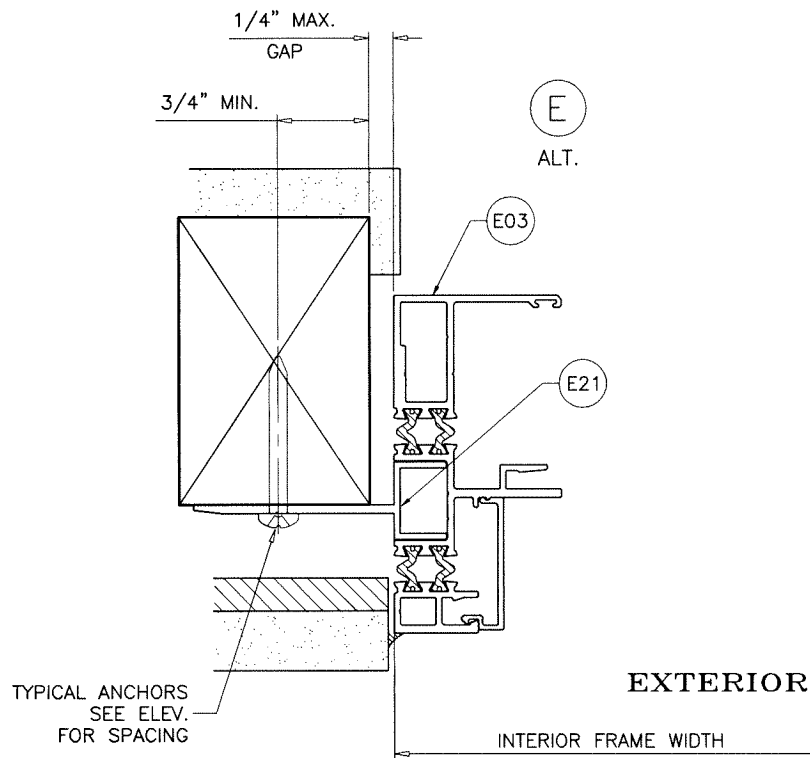
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TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#12 WOOD SCREWS (GRADE 2 CRS)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD



INSTALLATION DETAILS FLUSH FRAMES WITH NAIL FINs

SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

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FL #20383



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 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL W16-23-ES

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)

E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
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revisions:	no	date	by	description

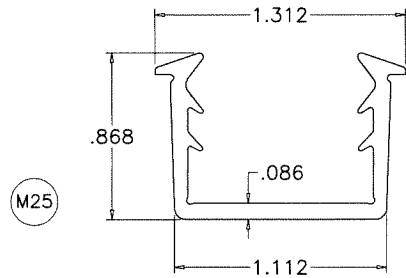
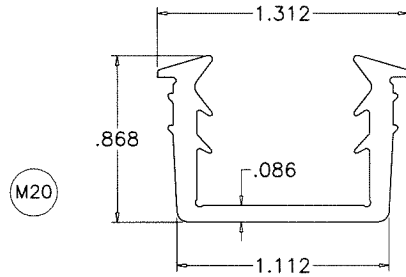
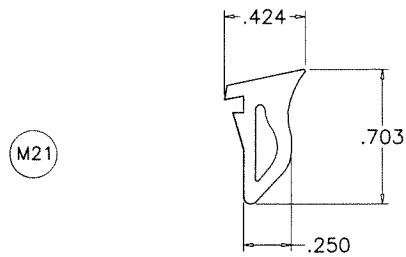
date: 04-19-16
 scale: 1/2" = 1"
 dr. by: TARIQ
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E01	ES-SW340-501	1	FRAME SILL FLUSH	6063-T6	-
E02	ES-SW340-505	1	FRAME HEAD FLUSH	6063-T6	-
E03	ES-SW340-502	2	FRAME JAMB FLUSH	6063-T6	-
E04	ES-H340-507	AS REQD.	FIX. MEETING RAIL	6063-T6	-
E05	ES-SW340-503	-	FIXED BOTTOM	6063-T6	-
E06	ES-H340-508	-	VENT SIDE RAIL	6063-T6	-
E07	ES-SW340-504	2/ VENT	VERTICAL RAIL	6063-T6	-
E08	ES-H340-510	1/ VENT	VENT TOP RAIL	6063-T6	-
E09	ES-H340-003	4/ LITE	GLASS STOP	6063-T5	-
E10	ES-SW340-005	4/ LITE	HORIZONTAL FIXED GLASS STOP	6063-T6	-
E11	ES-SW340-006	1/ VENT	TRACK	6005-T5	-
E12	ES-SW340-007	-	COVER	6063-T5	-
E13	ES-H340-021	-	HORIZONTAL/VERTICAL TRIM	6063-T5	-
E14	ES-H340-007	-	TRIM FOR SCREEN	6063-T6	-
E15	ES-H340-506	1	FRAME HEAD FLANGE	6063-T6	-
E16	ES-SW340-506	2	FRAME JAMB FLANGE	6063-T6	-
E17	ES-SW340-505	1	FRAME SILL FLANGE	6063-T6	-
E18	ES-SW340-507	1/ VENT	VENT BOTTOM RAIL	6063-T6	-
E19	ES-SW340-509	1	FRAME SILL FIN	6063-T6	-
E20	ES-SW340-016	AS REQD.	NAIL FIN (HEAD)	6063-T6	-
E21	ES-SW340-015	AS REQD.	NAIL FIN (JAMB)	6063-T6	-
M01	#10 X 1-1/2" FH	AS REQD.	FRAME ASSEMBLY FASTENER	ST/ST	-
M02	#10 X 1" PH	-	FRAME AND FIX. PANEL FASTENERS	ST/ST	-
M03	#8 X 1/2" PH	-	FOR ROLLER, PLASTIC PROFILE AND GLASS STOP	ST/ST	SPACED AT 10" O.C.
M04	#8 X 3/4" FH SMS	-	SWEEP LOCK FASTENER	-	-
M05	ES-SW340-301	-	PLASTIC EXTRUSION	RIGID PVC	-
M08	V2200	AS REQD.	GLAZING TAPE (3/16" X 3/8")	FOAM	-
M10	ES-21-B04A	2 LITE	SETTING BLOCKS	SILICONE	DUROMETER 80±5 SHORE A
M11	W23212NK	AS REQD.	WEATHERSTRIP	-	ULTRAFAB
M12	W23202NK	AS REQD.	WEATHERSTRIP	-	ULTRAFAB
M13	1142	AS REQD.	INSULBAR 12 MM FLAT	POLYAMIDE	ENSINGER
M14	2479	AS REQD.	INSULBAR 20 MM OFFSET	POLYAMIDE	ENSINGER
M15	2531	AS REQD.	INSULBAR 12 MM OFFSET	POLYAMIDE	ENSINGER
M16	3032	1/ VENT	SWEEP LOCK	DIE CAST ALUM	AT 13" FROM EACH END
M17	ES1050-PL1	-	FLAT BOLT	ST/ST	-
M18	RU-340-IR	2/ VENT	TANDEM ROLLER	ST/ST	AT 5" FROM EACH END
M19	ES-SW340-G05	AS REQD.	EXTERIOR GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A
M20	ES-H340-G01	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M21	PS-1127E	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M22	ES-SD450-F01	AS REQD.	RETICULATED FOAM (5/8" X 5/8" X 2")	FOAM	-
M24	-	-	GLAZING TAPE (3/16" X 3/16")	FOAM	-
M25	ES-H340-G03	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M27	#8 X 3/8"	AS REQD.	NAIL FIN FASTENERS AT 3" FROM ENDS & 12" O.C.	ST. STEEL	PH SMS

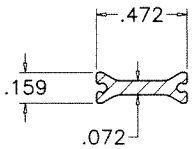
SEALANTS:

FRAME AND VENT CORNERS AND INSTALLATION SCREWS AT SILL SEALED WITH 'ACCURA' ARCYLIC LATEX SEALANT BY 'M-D BUILDING PRODUCTS'.

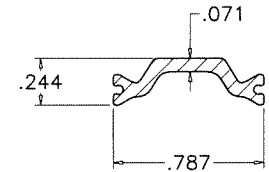


GLAZING GASKETS
SCALE 1:1

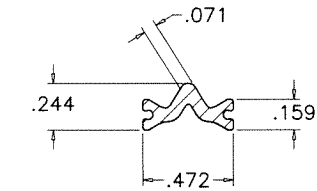
MATERIAL = SILICONE
HARDNESS = 70±5
TENSILE STRENGTH = 1075 PSI
ELONGATION AT BREAK = 167%
TEAR STRENGTH = 121 Lb/in
BRITTLENESS TEMPERATURE = -40° F
COMPRESSION SET = 11% (22h @ 212°F)



M13 12MM FLAT



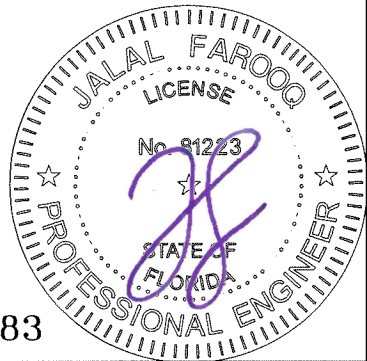
M14 20MM OFFSET



M15 12MM OFFSET

TECATHERM® 66 GF INSULBARS
SCALE 1:1

MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. = 781°C
SMOKE DENSITY = 1.63



Sealed: 9/18/2026

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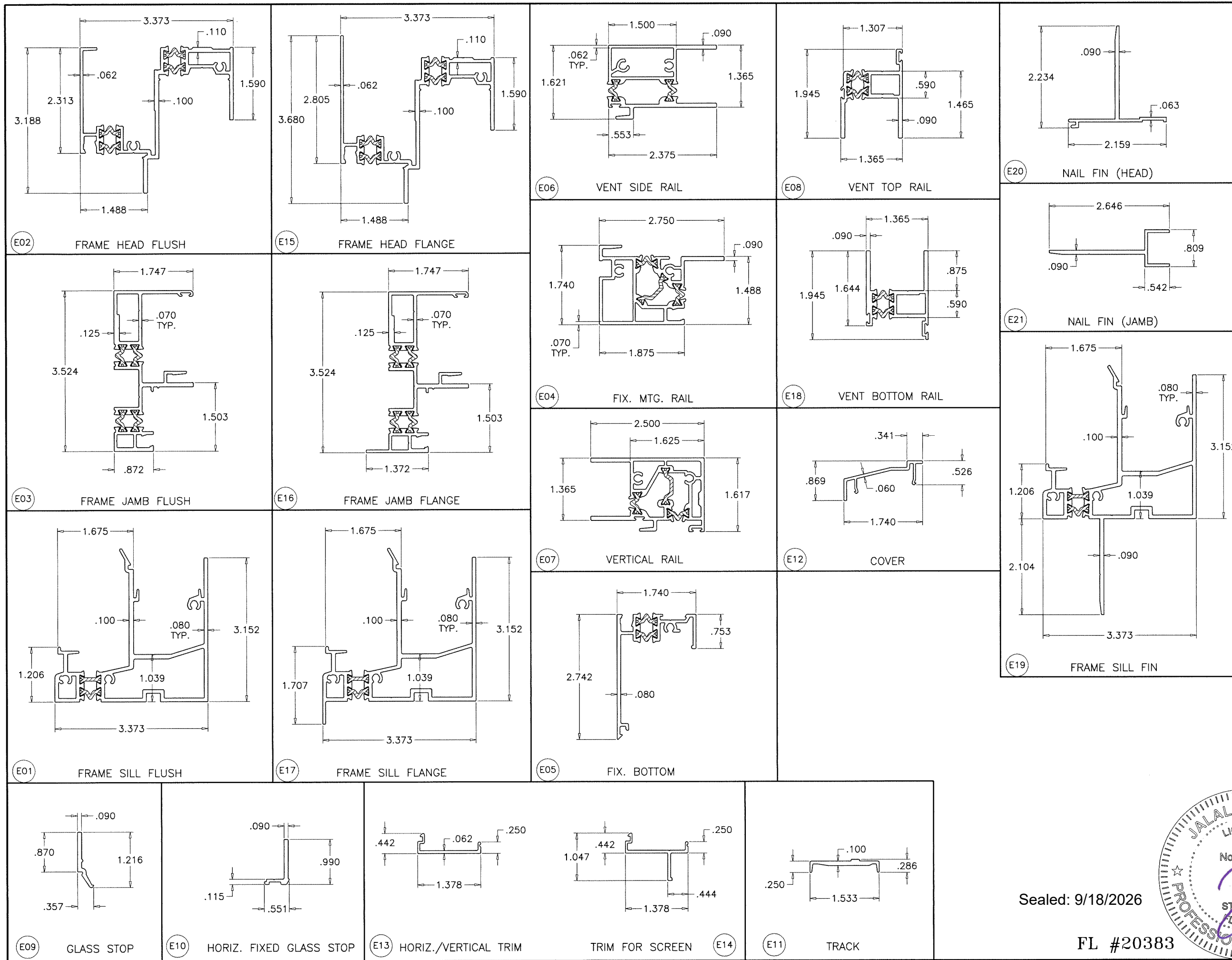
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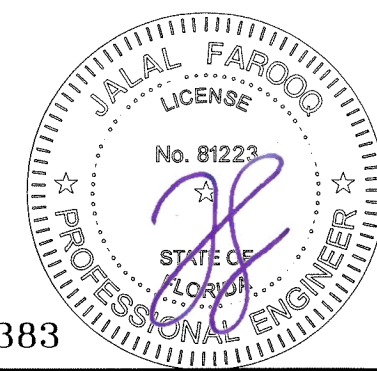
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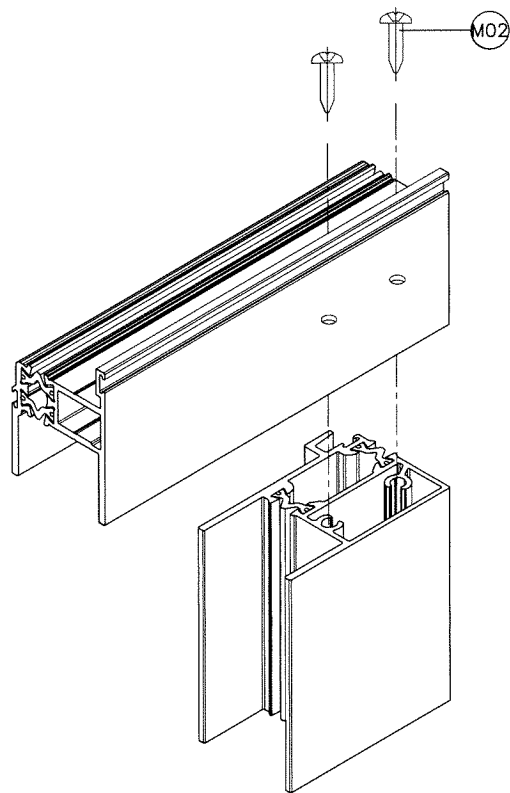
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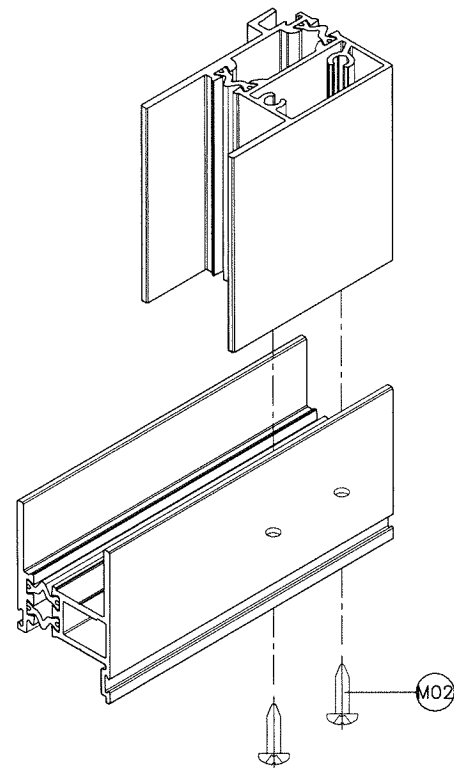
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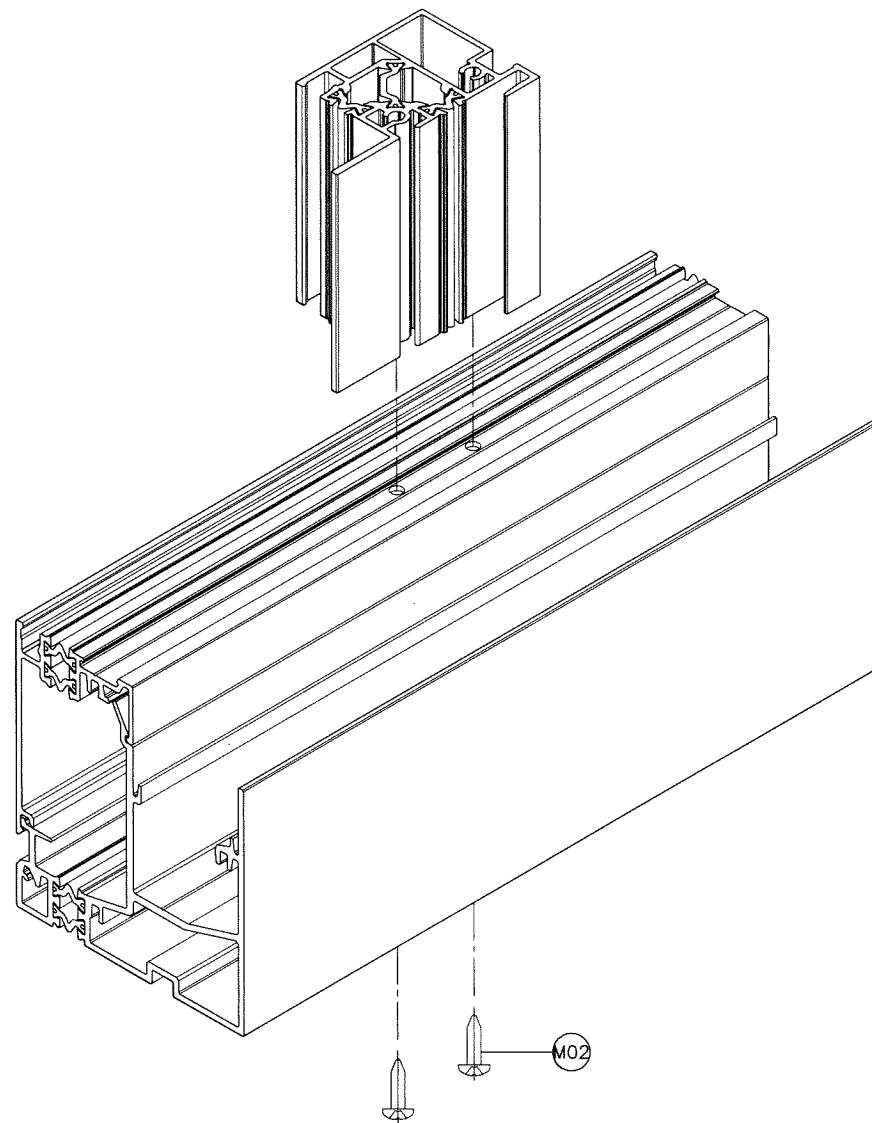




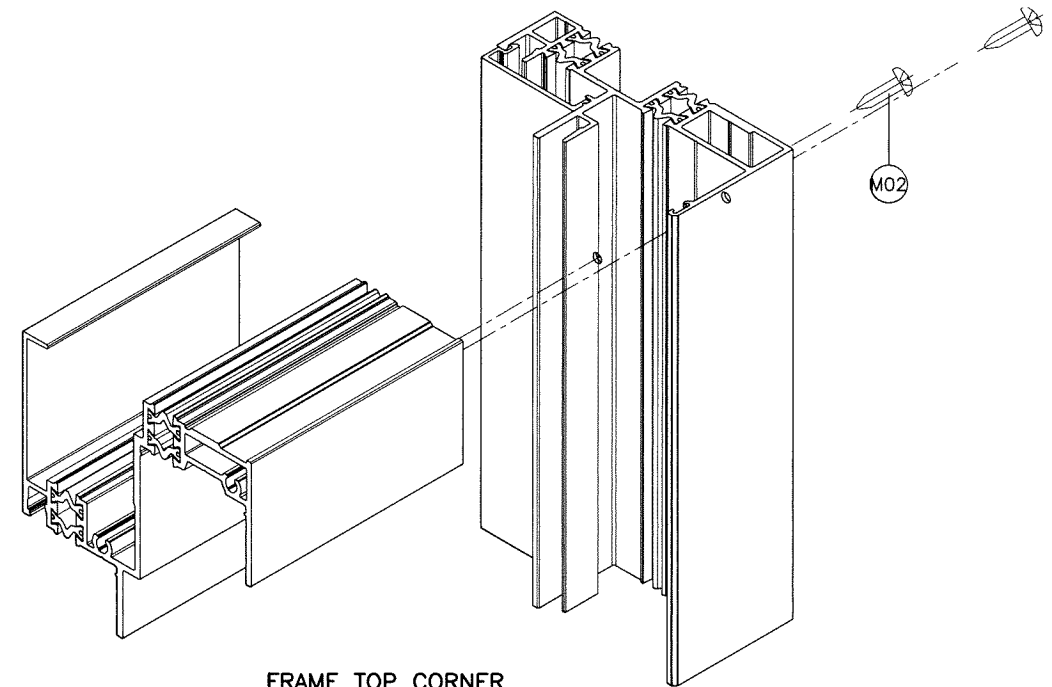
VENT TOP CORNERS



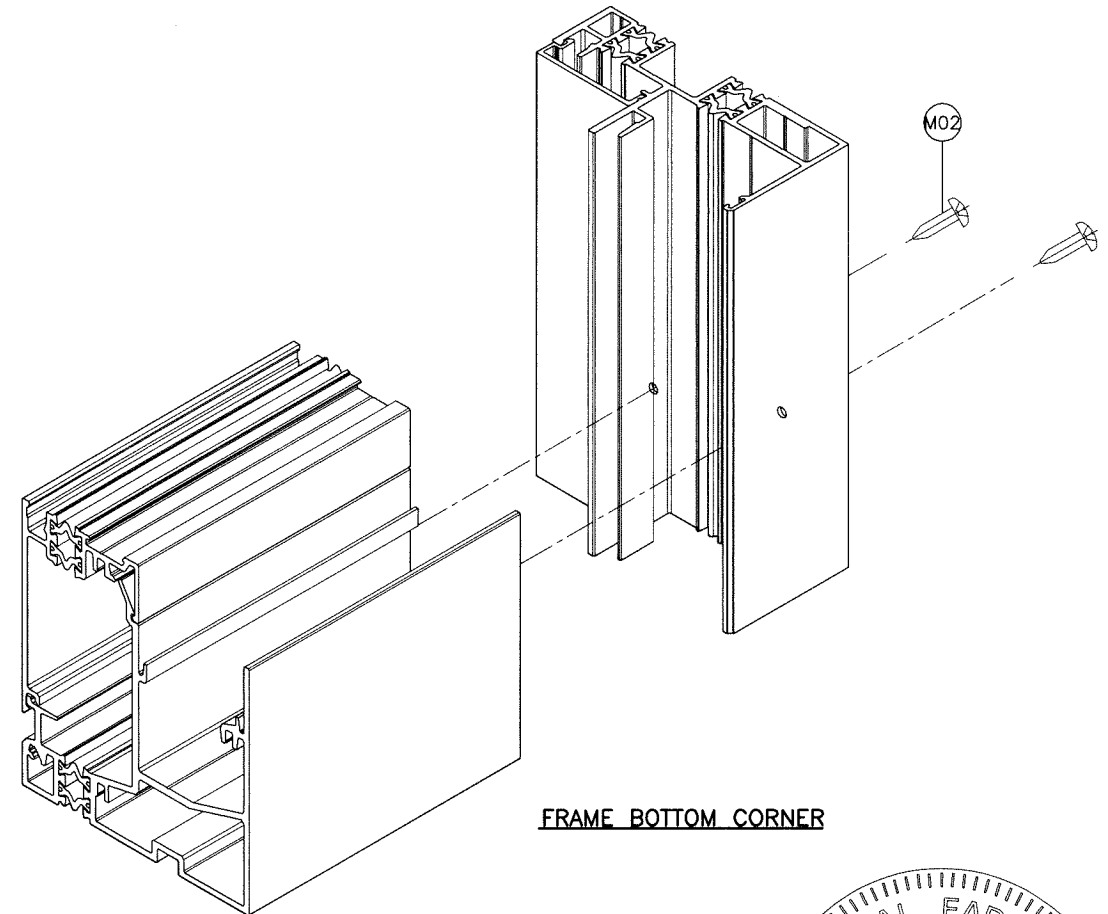
VENT BOTTOM CORNERS



FIXED MTG. RAIL CORNER



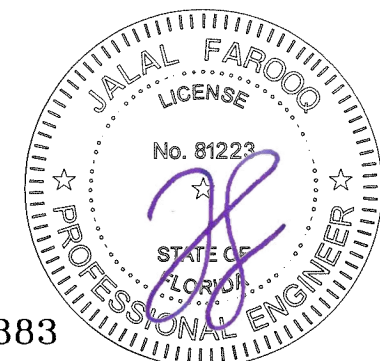
FRAME TOP CORNER



FRAME BOTTOM CORNER

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