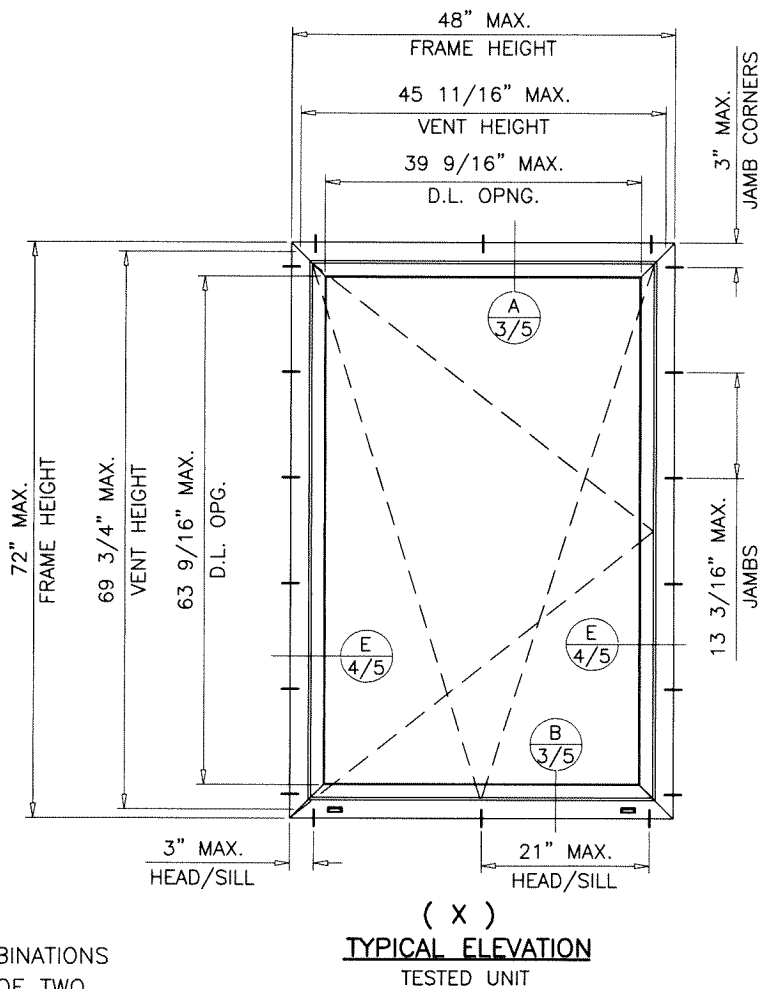


*** USE OF THIS PRODUCT REQUIRES WRITTEN AUTHORIZATION BY PAGEN SP TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A PERMIT ***



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

**SERIES AWS 65/70.HI/75.SI+
TILT TURN AND FIXED WINDOW SYSTEM**

APPROVAL APPLIES TO SINGLE UNITS, OR SIDE BY SIDE COMBINATIONS OF FIXED/TILT TURN, OR TILT TURN/TILT TURN IN MODULES OF TWO OR MORE WINDOWS.
CODE REQUIREMENTS OR SAFEGUARDS MUST BE OBSERVED.

SERIES AWS 90.SI+ TILT TURN WINDOW SYSTEM

APPROVAL APPLIES TO SINGLE UNITS
CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/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 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

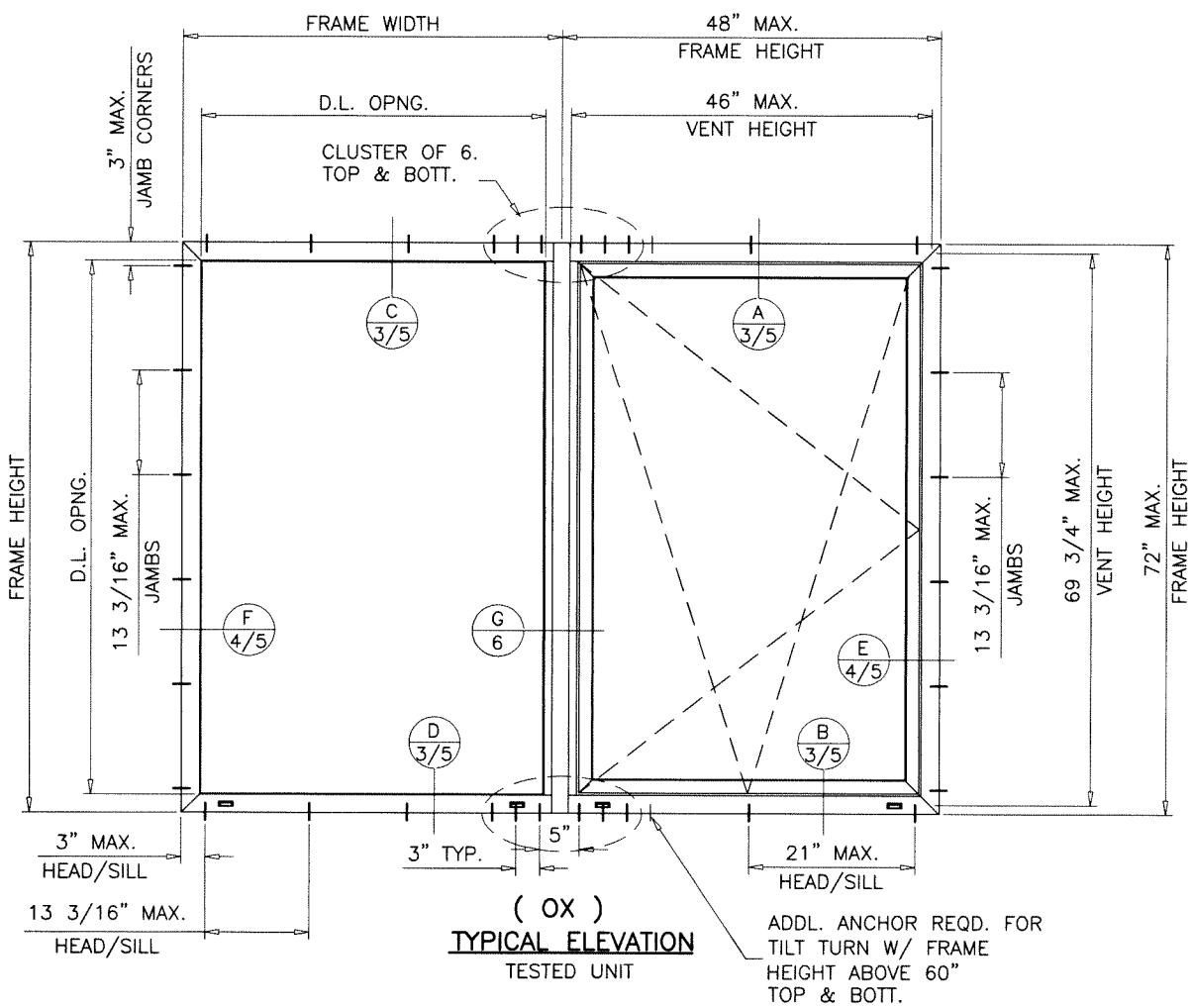
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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.

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



TILT TURN UNITS

MAXIMUM DESIGN LOAD RATING = + 70.0 PSF
(FOR VENT SIZE SHOWN OR SMALLER) - 70.0 PSF
AS PERMITTED BY FBC REQUIREMENTS

TILT TURN/ FIXED COMBINATIONS

MAXIMUM DESIGN LOAD RATING
SEE TABLE SHEET 2.

INSUL. LAM. GLASS
LARGE MISSILE IMPACT

Sealed: 8/11/2023

FL #42041

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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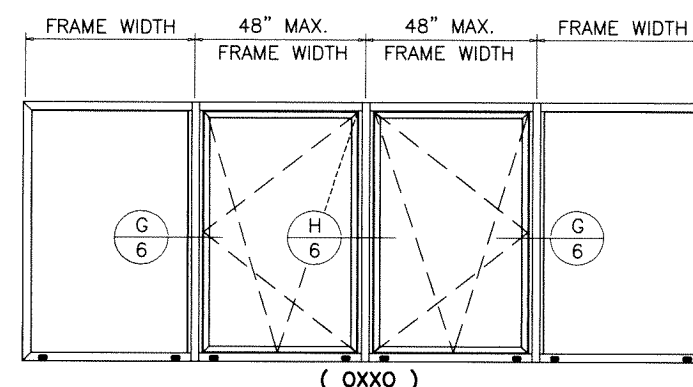
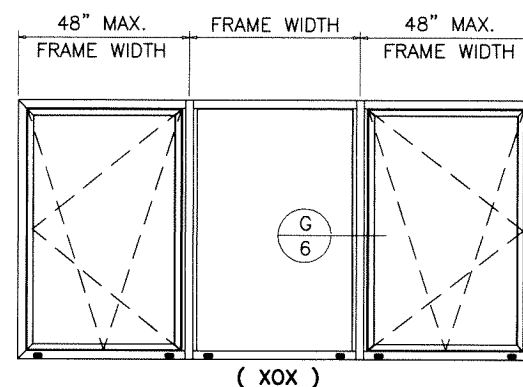
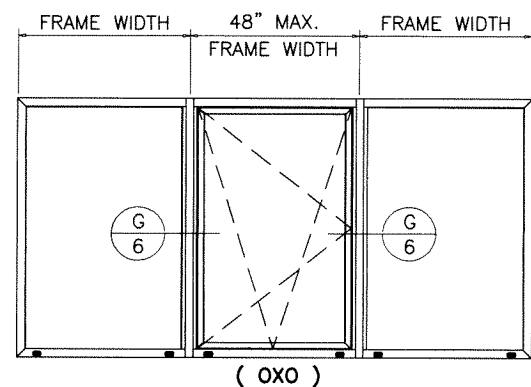
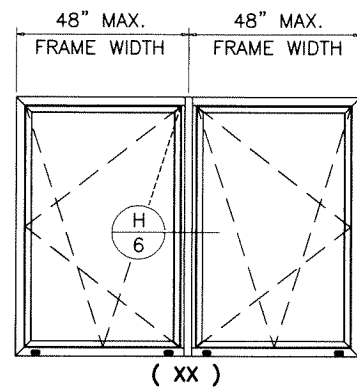
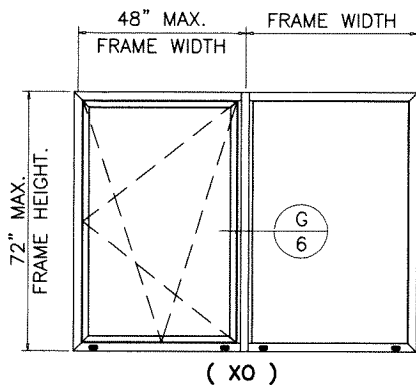
SERIES AWS 65/70/75/90 TILT TURN/FIXED WDW. SYST. (L.M.I.)

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32-864 Gnojnik, Poland
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no	date	by	description
A	08.10.23		UPDATED TO 2023 FBC

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dr. by: M.L.S.
chk. by:

drawing no.
23-20F
sheet 1 of 8

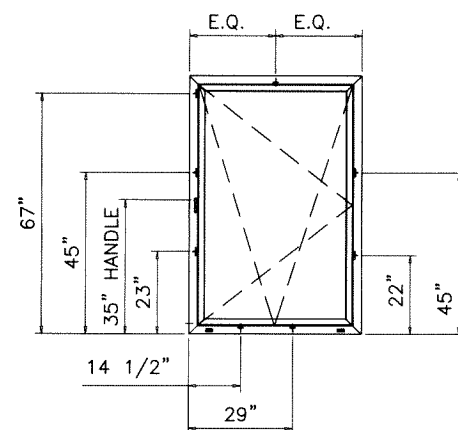


NOTE:
TYPICAL CONFIGURATIONS SHOWN. ALL LEFT OR
RIGHT- HINGED INSWING CONFIGURATIONS ARE ALLOWED

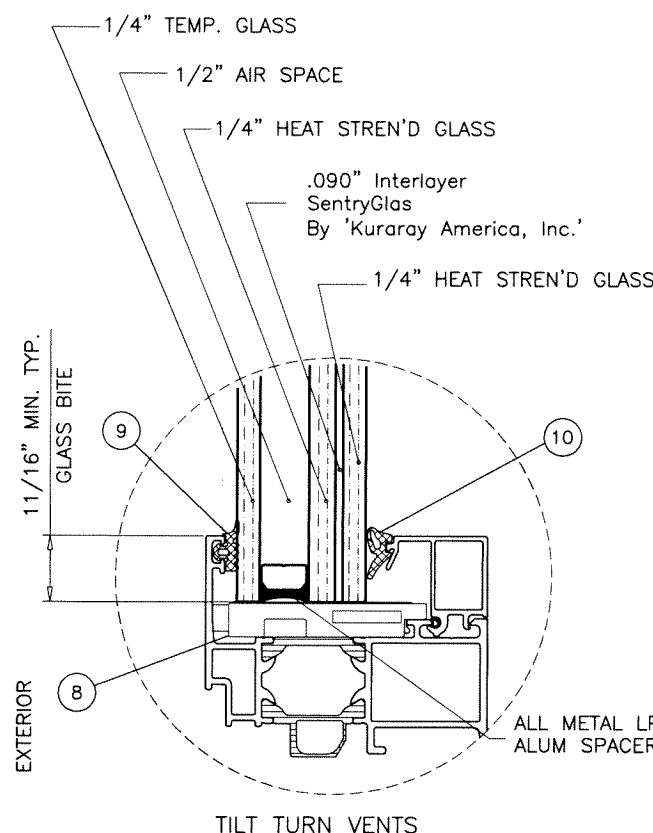
DESIGN LOAD CAPACITY - PSF		
WINDOW DIMS.		GLASS TYPE '1'
HEIGHT	WIDTH	EXT.(+) INT.(-)
36"	36"	70.0
	42"	70.0
	48"	70.0
	54"	70.0
	60"	70.0
	66"	70.0
	72"	70.0
	78"	70.0
42"	84"	70.0
	90"	70.0
	96"	70.0
	42"	70.0
	48"	70.0
48"	54"	70.0
	60"	70.0
	66"	70.0
	72"	70.0
60"	48"	70.0
	54"	62.2
72"	48"	70.0

NOTE:
CHART APPLIES TO FIXED WINDOW
PORTION ONLY. WIDTH AND HEIGHT
DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY

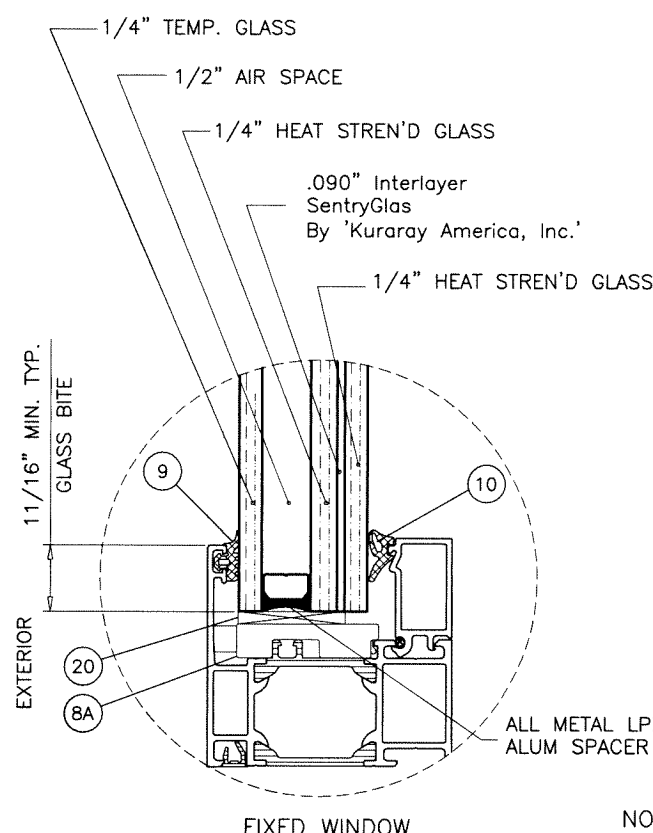
FIXED WINDOW DAYLITE OPENINGS:
AWS 65, 70.HI & 75.SI+:
FRAME HEIGHT - 4.646"
FRAME WIDTH - 4.370"



LOCKING POINTS SEE CHART		
WDW. HEIGHT UP TO	NO. OF KEEPERS AT HINGE STILE	NO. OF KEEPERS AT NON-HINGE STILE
48"	2	2
72"	3	2
WDW. WIDTH UP TO	NO. OF KEEPERS AT SILL	NO. OF KEEPERS AT TOP RAIL
48"	2	1



TILT TURN VENTS



FIXED WINDOW

GLASS TYPE '1'

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

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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE A - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES
1-3/4" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
DIRECTLY INTO CONCRETE OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE
1-3/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE B - 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY 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)

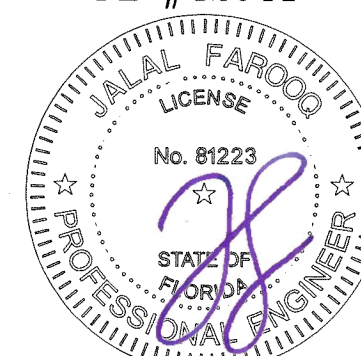
TYPICAL EDGE DISTANCE

INTO CONCRETE = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
INTO BLOCK = 2-1/2" 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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FL #42041



NOTE:
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BASED ON ASTM E1300-09 (3 SEC. GUSTS)
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ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33173
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(C.A.N. 3538)

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PAGEN Sp. z o.o.

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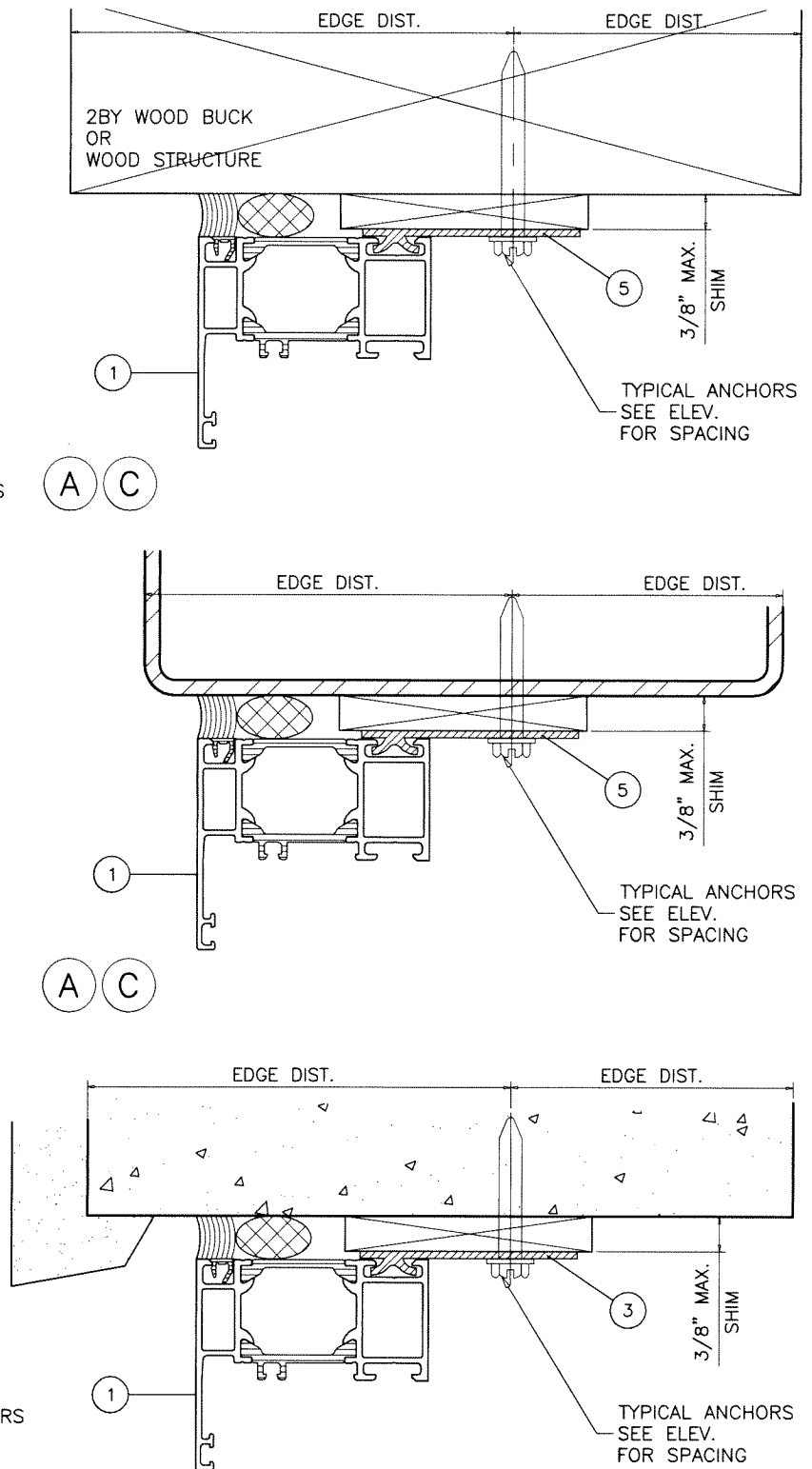
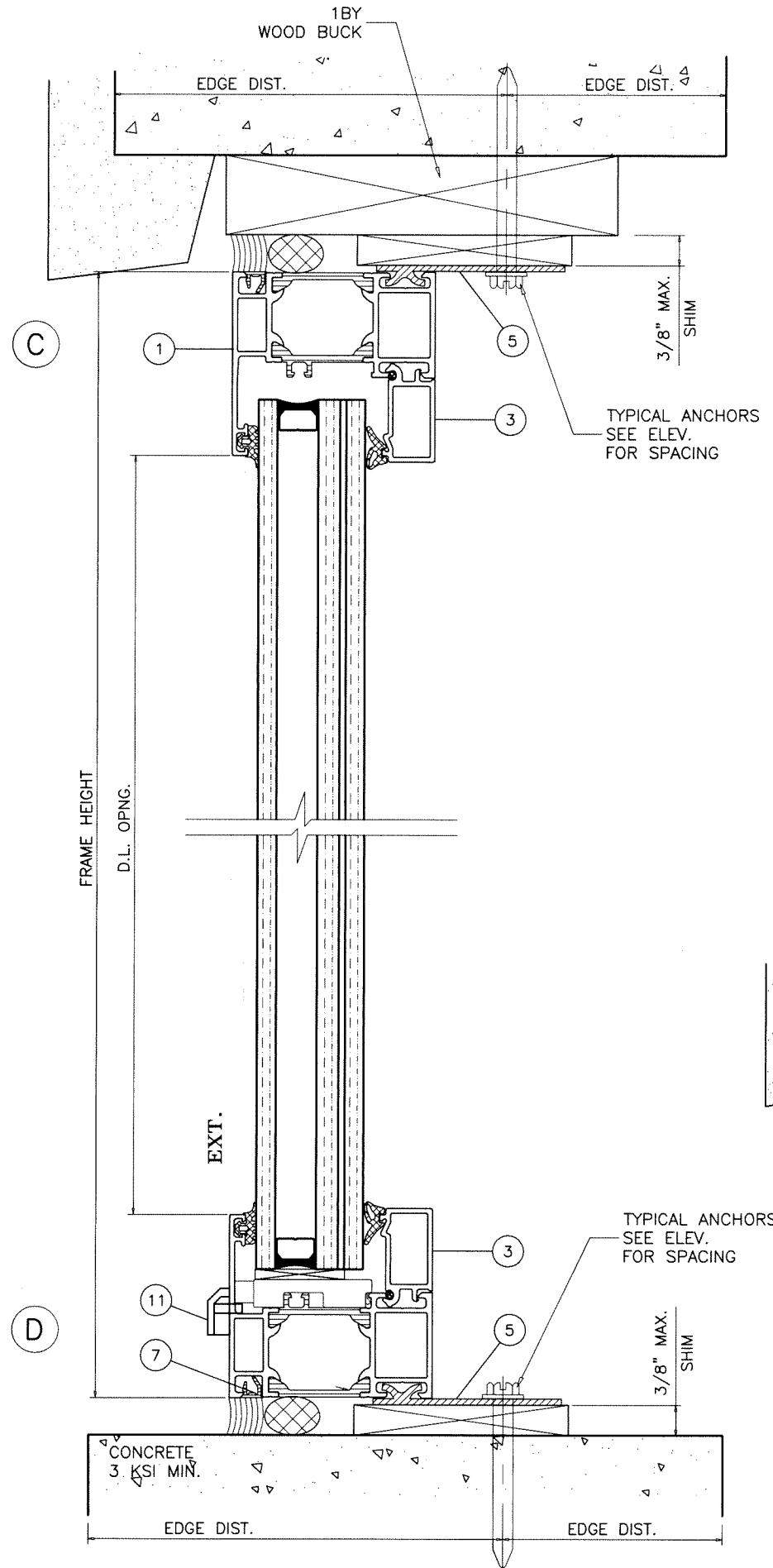
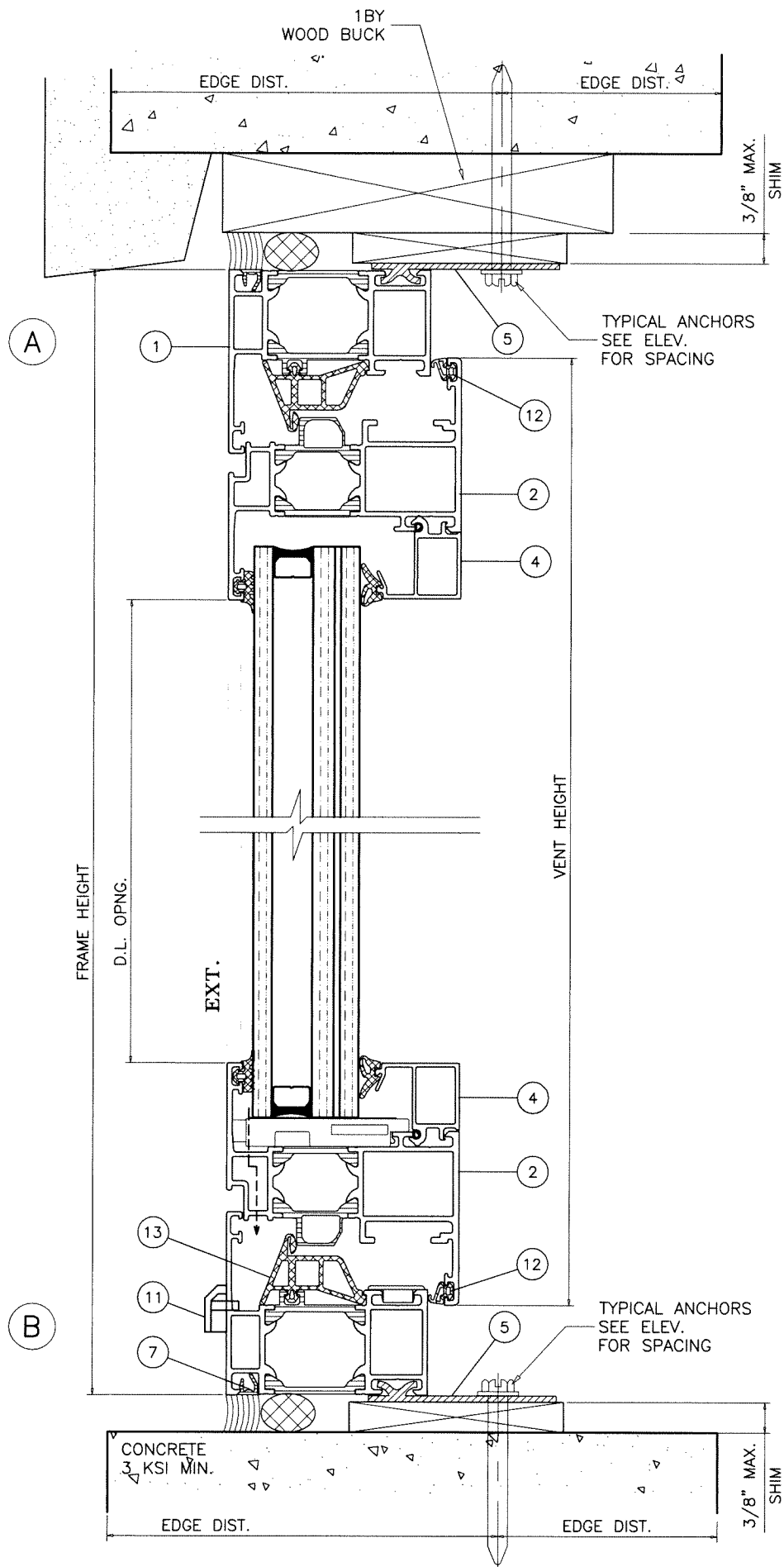
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23-20F

sheet 2 of 8

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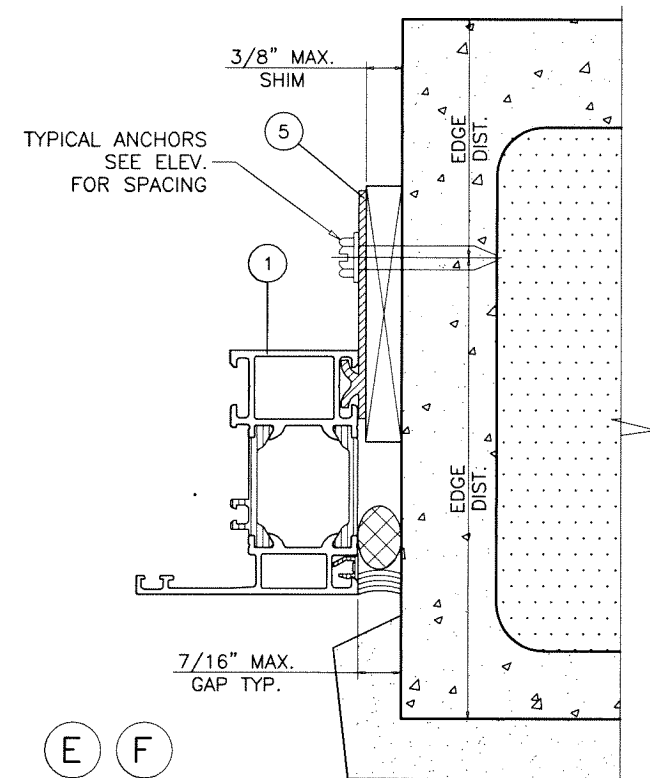
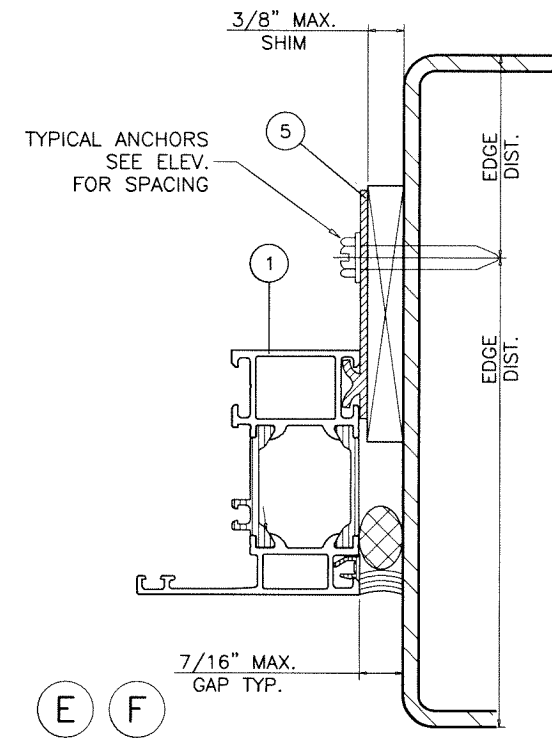
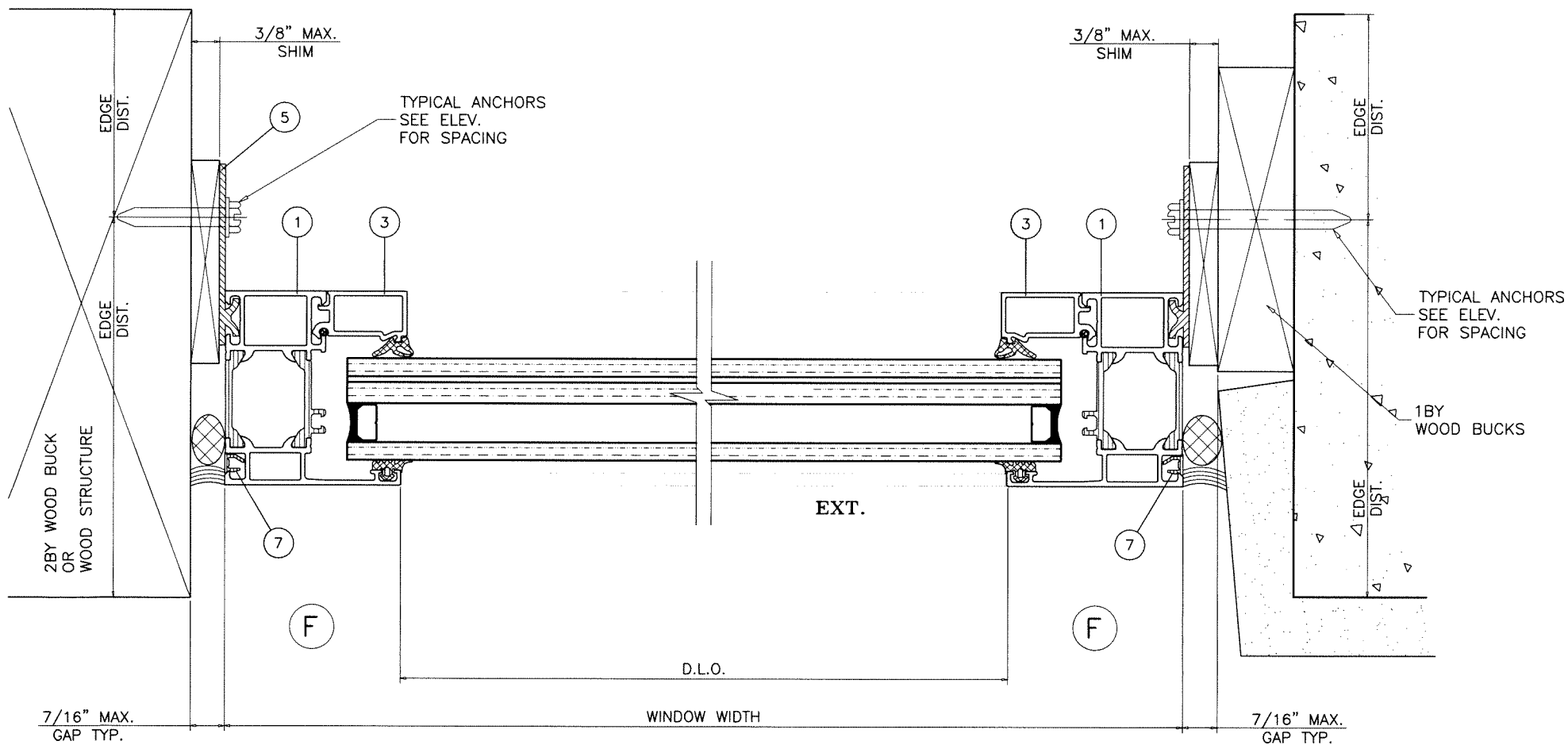
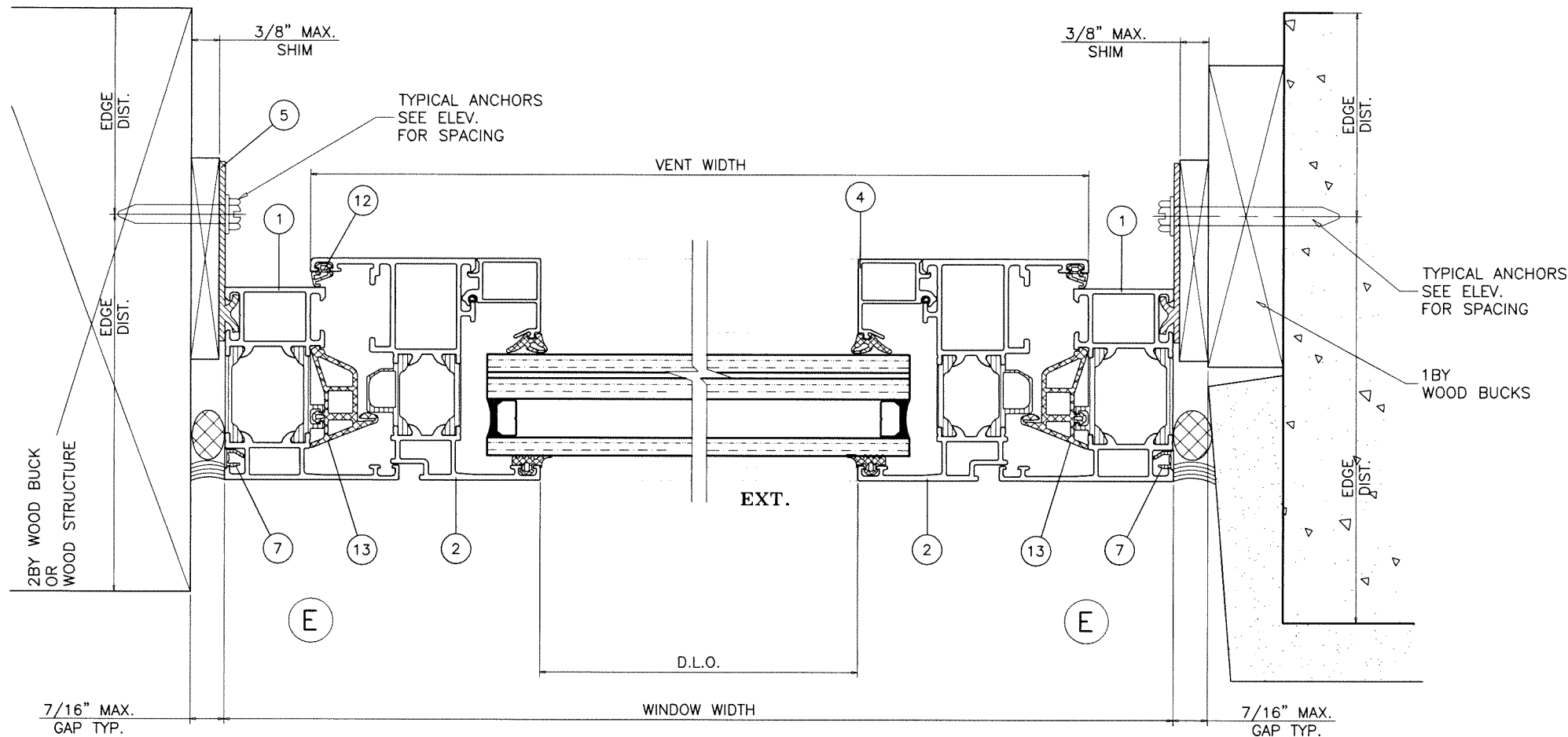
STRAP ANCHOR INSTALLATION



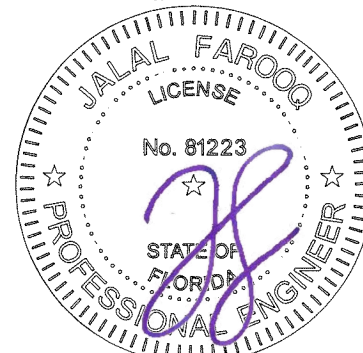
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sheet	3 of 8		



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STRAP ANCHOR INSTALLATION

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drawing no.		23-20F	
sheet		4 of 8	



TYPICAL THROUGH FRAME INSTALLATION DETAILS
APPLY TO ALL OTHER SHOWN SUBSTRATES.

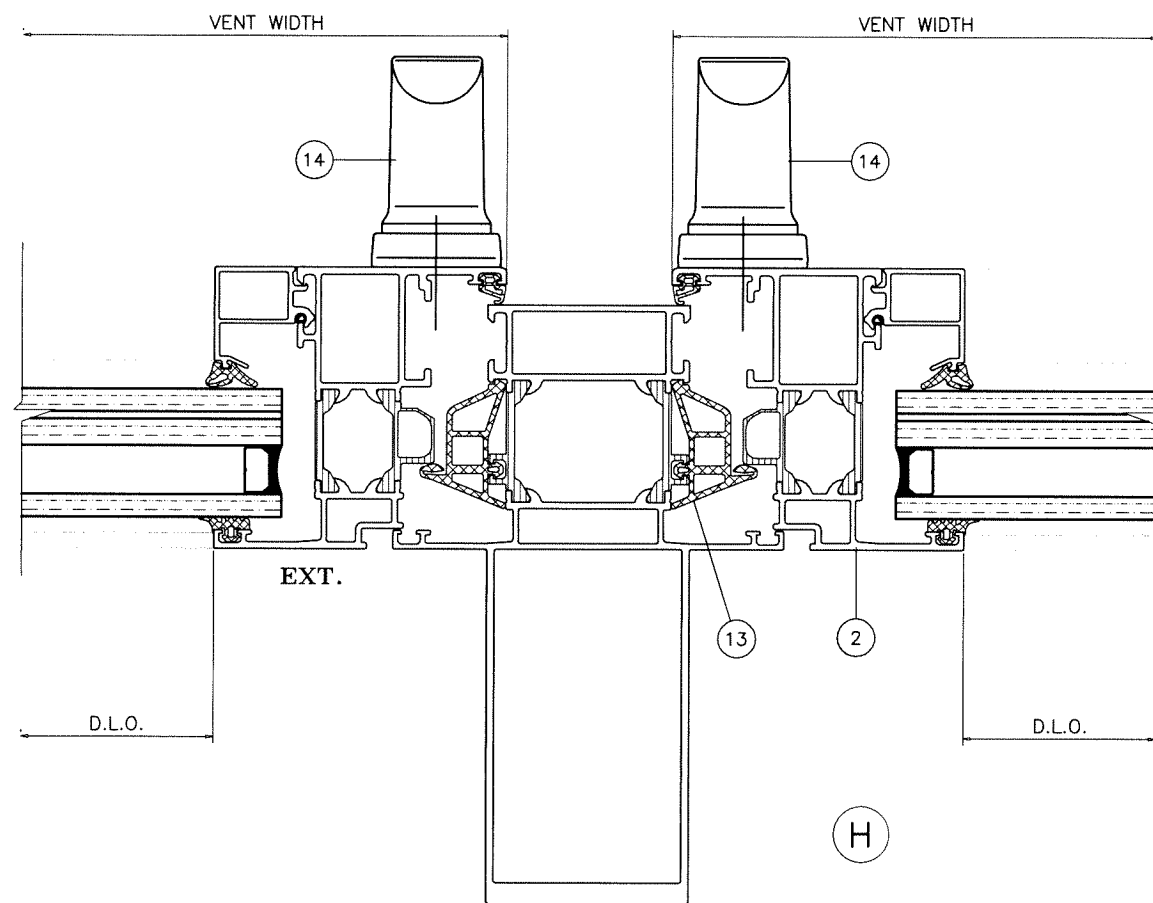
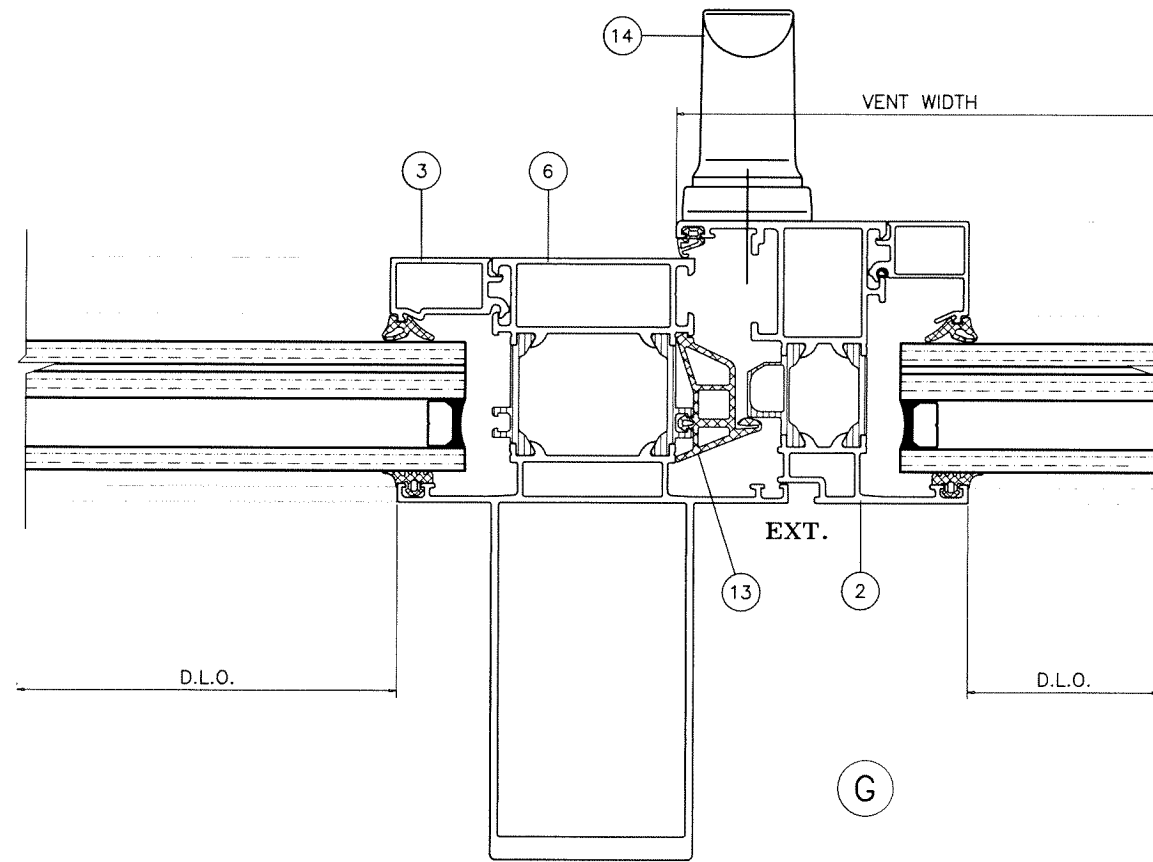


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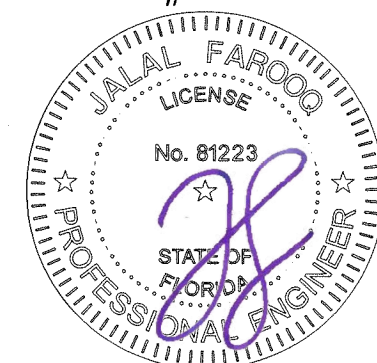
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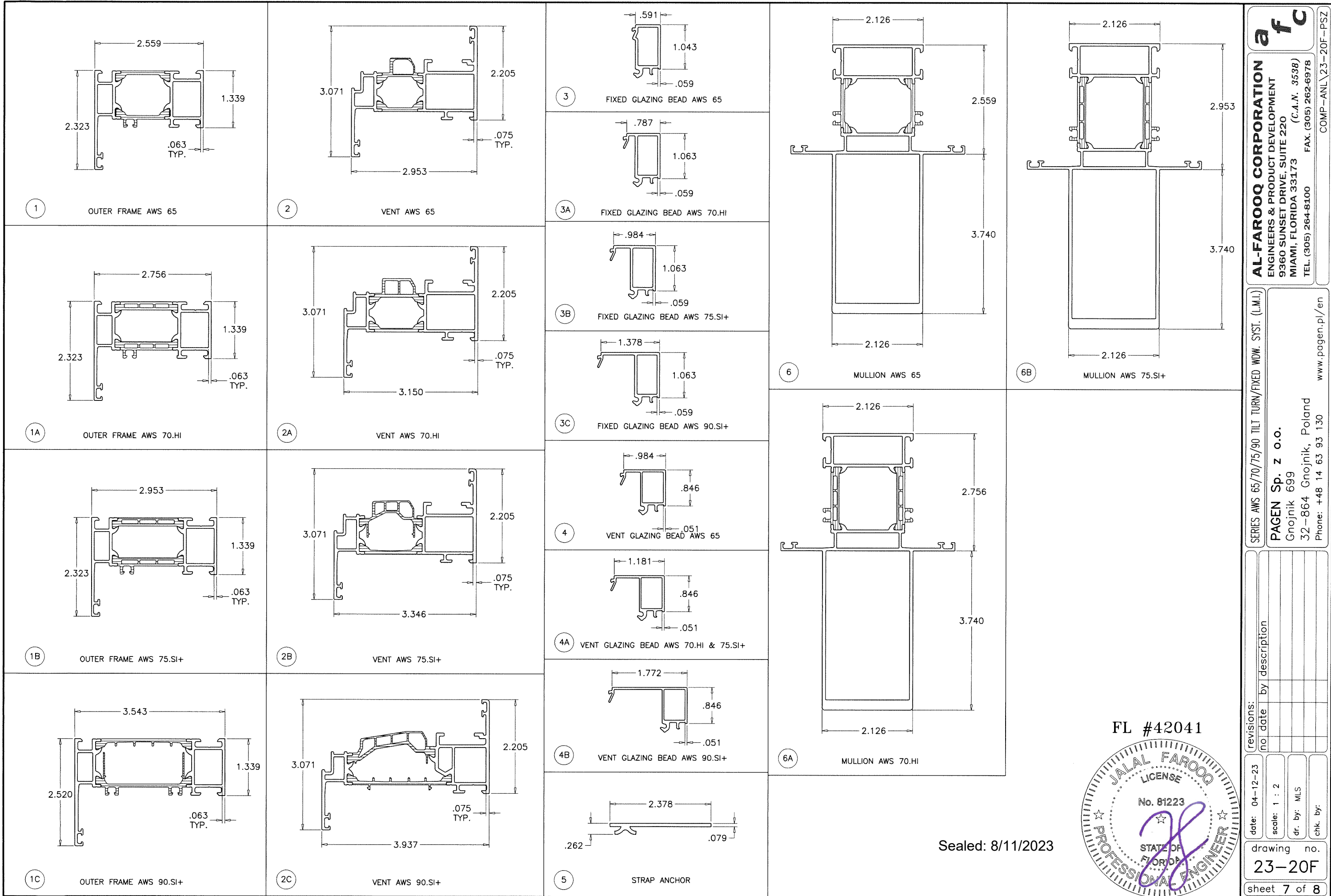
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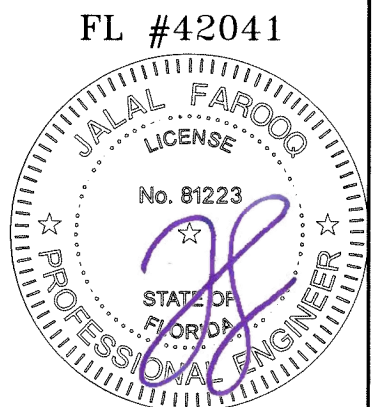
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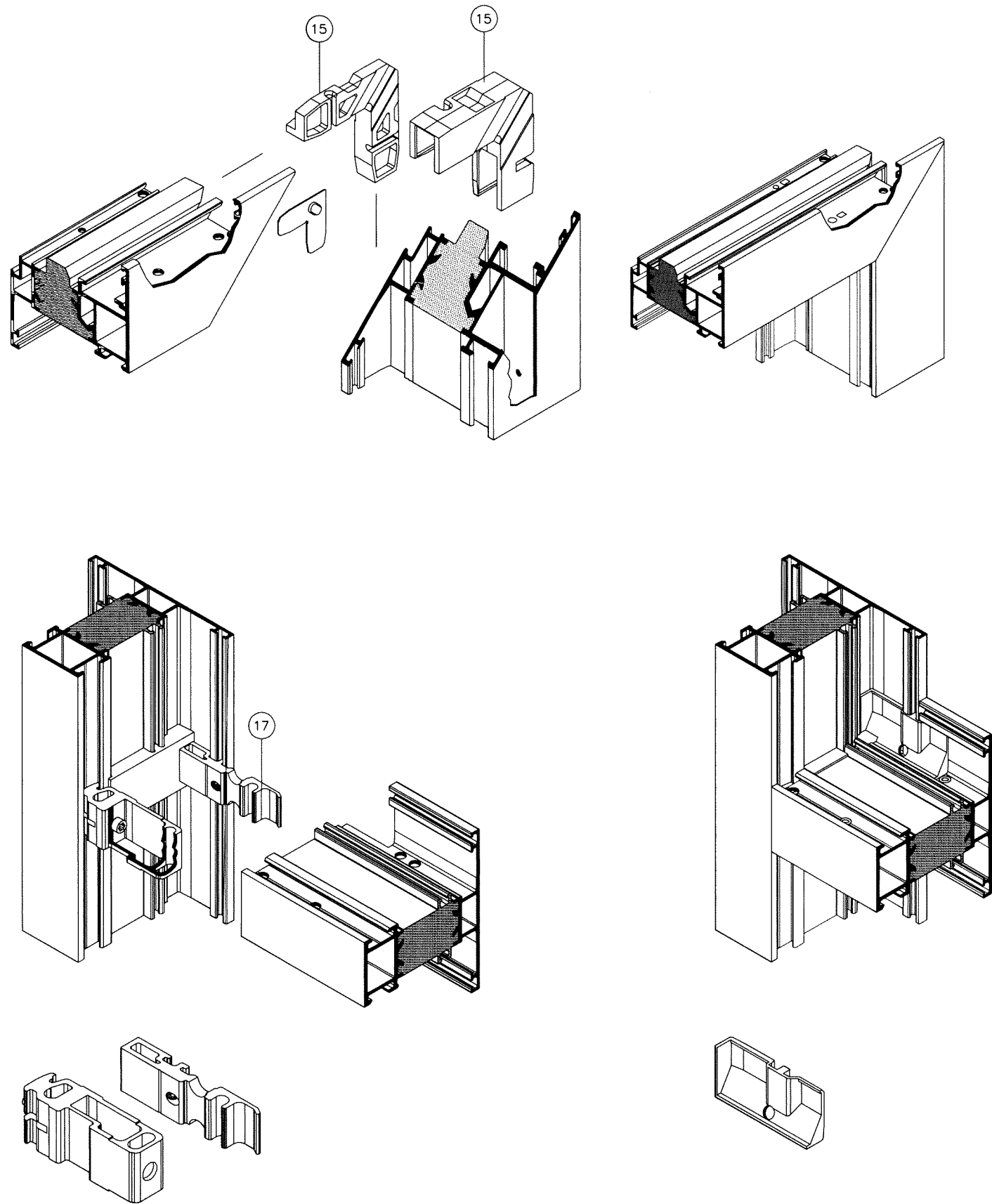
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sheet		7 of 8	





ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL
1	363900	4	AWS 65 FRAME	6063-T6
1A	358150	AS REQD.	AWS 70.HI FRAME	6063-T6
1B	382130	AS REQD.	AWS 75.SI+ FRAME	6063-T6
1C	465070	AS REQD.	AWS 90.SI+ FRAME	6063-T6
2	364660	4	AWS 65 VENT	6063-T6
2A	358620	AS REQD.	AWS 70.HI VENT	6063-T6
2B	466890	AS REQD.	AWS 75.SI+ VENT	6063-T6
2C	441780	AS REQD.	AWS 90.SI+ VENT	6063-T6
3	489760	4	FIXED GLAZING BEAD EHL 22	6063-T6
3A	467770	AS REQD.	FIXED GLAZING BEAD AWS 70.HI	6063-T6
3B	467780	AS REQD.	FIXED GLAZING BEAD AWS 75.SI+	6063-T6
3C	467800	AS REQD.	FIXED GLAZING BEAD AWS 90.SI+	6063-T6
4	346620	4	VENT GLAZING BEAD AWS 65	6063-T6
4A	345520	AS REQD.	VENT GLAZING BEAD AWS 70.HI & 75.SI+	6063-T6
4B	441780	AS REQD.	VENT GLAZING BEAD AWS 90.SI+	6063-T6
5	207628	AS REQD.	STRAP ANCHOR HEAD/JAMBS	50961-Fe/Zn 8 C
6	362950	AS REQD.	MULLION AWS 65	6063-T6
6A	CUSTOM 70.HI	AS REQD.	MULLION AWS 70.HI	6063-T6
6B	CUSTOM 75.SI+	AS REQD.	MULLION AWS 75.SI+	6063-T6
7	244516	AS REQD.	PVC-U FILLER PROF SW	
8	288166	4/ LITE	VENT GLAZING SUPPORT	POLYAMIDE, DUROMETER 80±5 SHORE A
8A	288167	2/ LITE	FIXED GLAZING SUPPORT	POLYAMIDE, DUROMETER 80±5 SHORE A
9	224063	AS REQD.	GLAZING GASKET 4MM (AWS 65)	
9A	284351	AS REQD.	GLAZING GASKET AWS 70.HI	
9B	284321	AS REQD.	GLAZING GASKET AWS 75.SI+ & 90.SI+	
10	224350	AS REQD.	CONT. O.-IN GASKET 5MM (AWS 65)	
10A	284839	AS REQD.	CONT. O.-IN GASKET AWS 70.HI	
10B	284834	AS REQD.	CONT. O.-IN GASKET AWS 75.SI+	
10C	284837	AS REQD.	CONT. O.-IN GASKET AWS 90.SI+	
11	208694	2/UNIT	DRAIN COVER CAP BLK	
12	224310	AS REQD.	CONT. REBATE GASKET	
13	278220	AS REQD.	CONT. CENTRE GASKET	
14	--	1/ VENT	HANDLE	
15	236198/236218	4/EA.	FRAME CORNER KEY	6063-T6
16	226968/236175	4/EA.	VENT CORNER KEY	6063-T6
17	362950	AS REQD.	T-CLEAT	6063-T6
18	277918	AS REQD.	KEEPER	
19	277149	2/VENT	TILT TURN HARDWARE	
20	--	2/ LITE	SETTING BLOCK	EPDM, DUROMETER 80±5 SHORE A

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sheet **8** of **8**