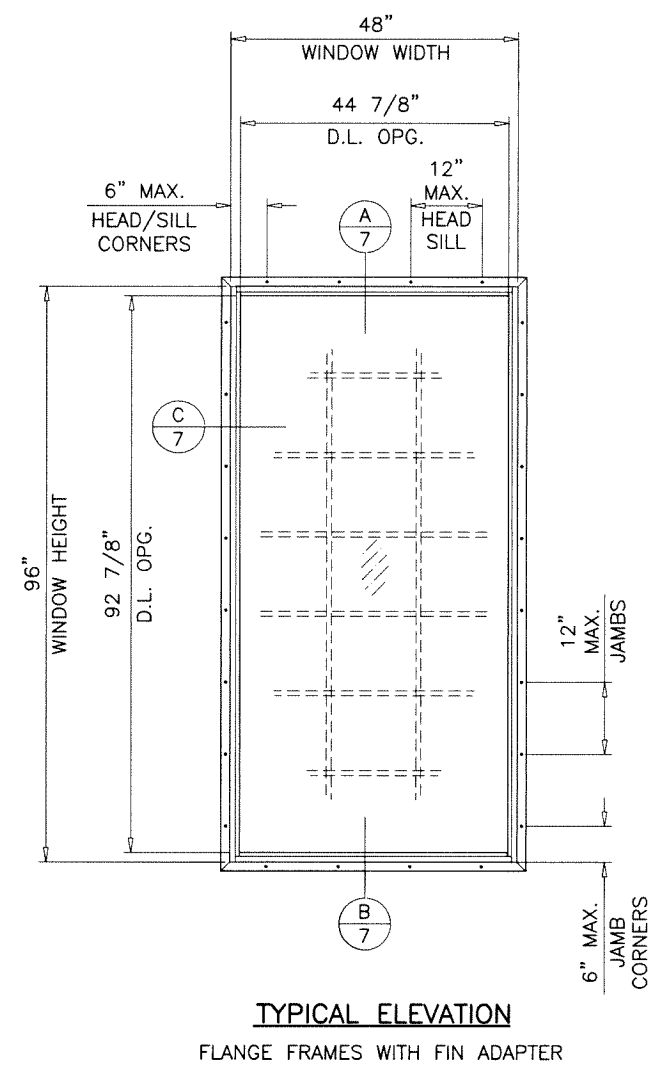
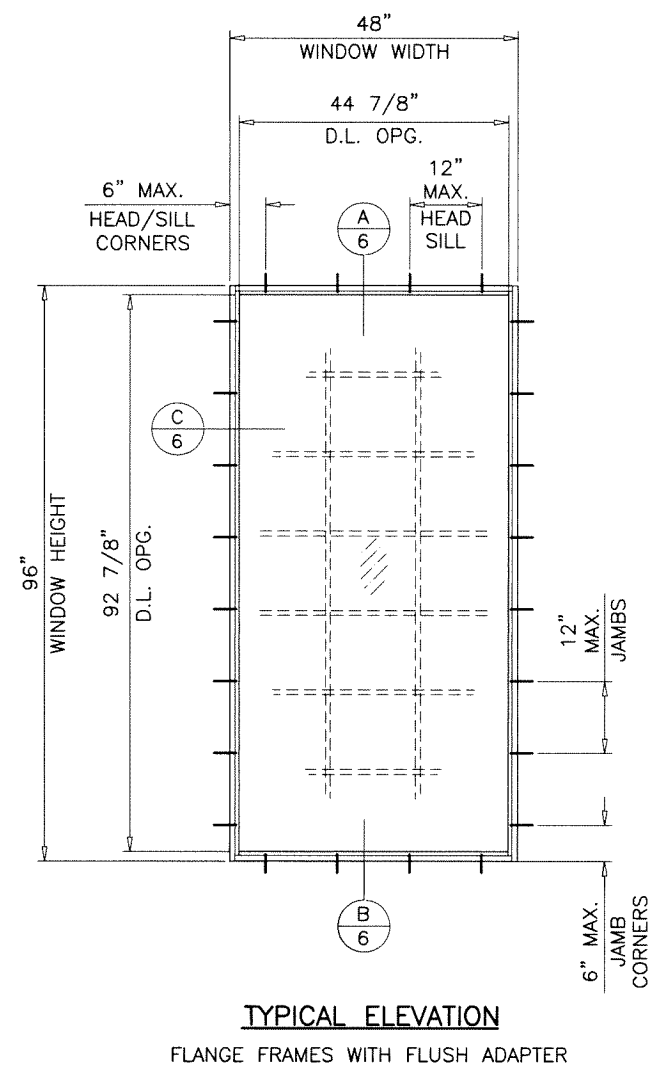
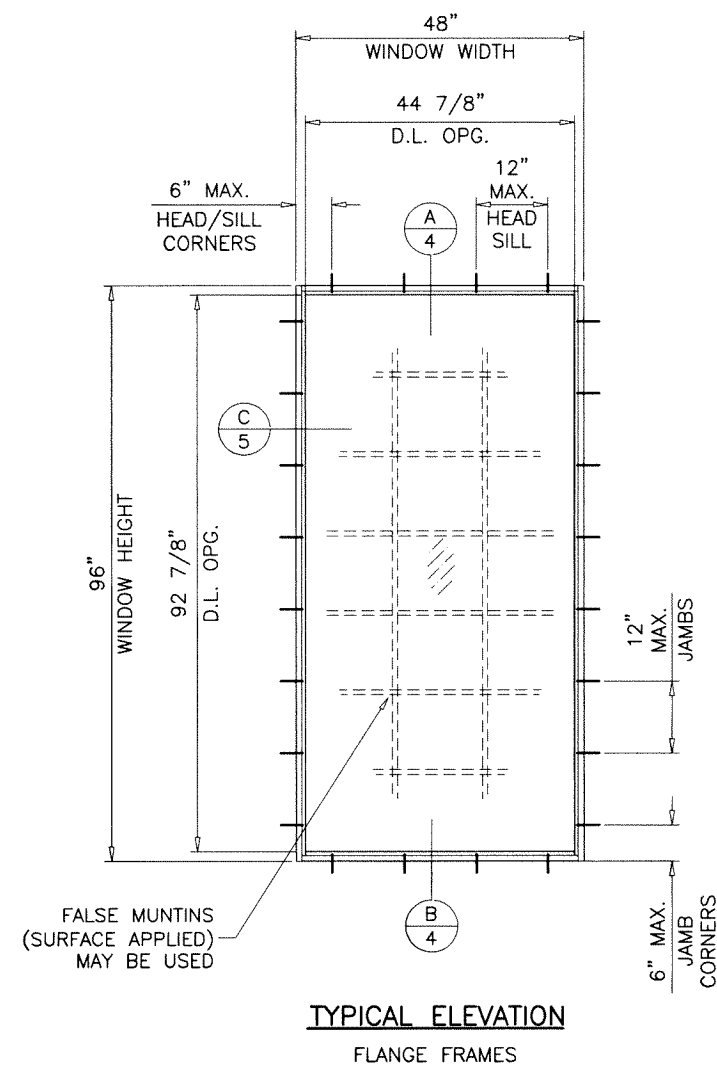




ES-EL150
FIXED ALUMINUM WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 3.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE
COMBINATIONS OF FIX./FIX. OR FIXED 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 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.

DAYLITE OPENINGS:
D.L.O. HEIGHT = WINDOW HEIGHT - 3.125"
D.L.O. WIDTH = WINDOW WIDTH - 3.125"

THESE WINDOWS ARE NOT RATED FOR IMPACT.

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.

INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

Sealed: 8/24/2023

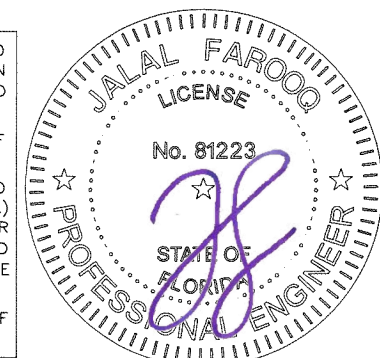
FL #21461

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.



ES-EL150 FIXED ALUMINUM WDW. (N.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX.

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

FAX. (305) 638-5158

COMP--ANL\20--61FES

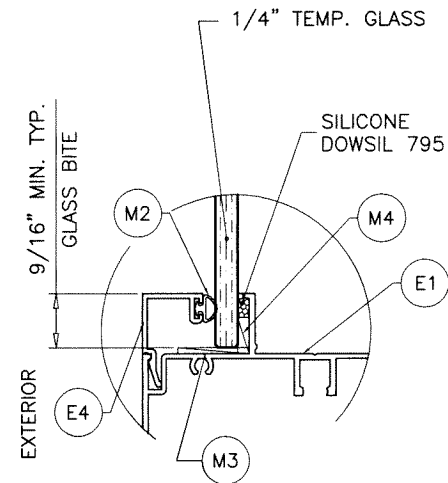
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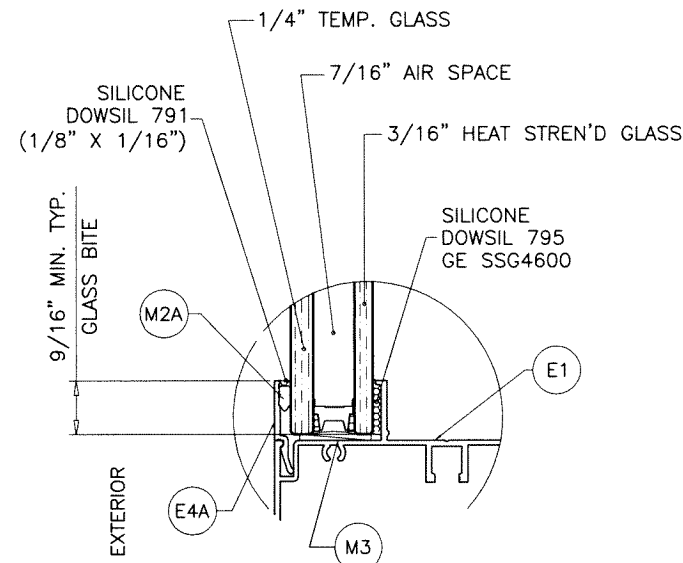
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20-61F

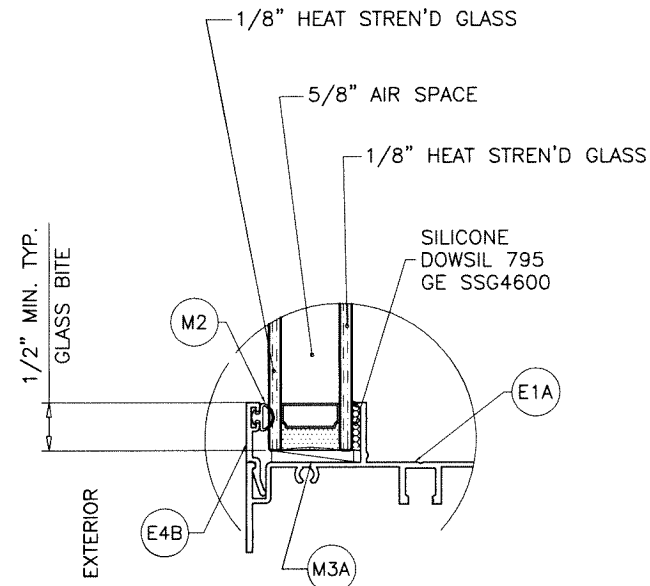
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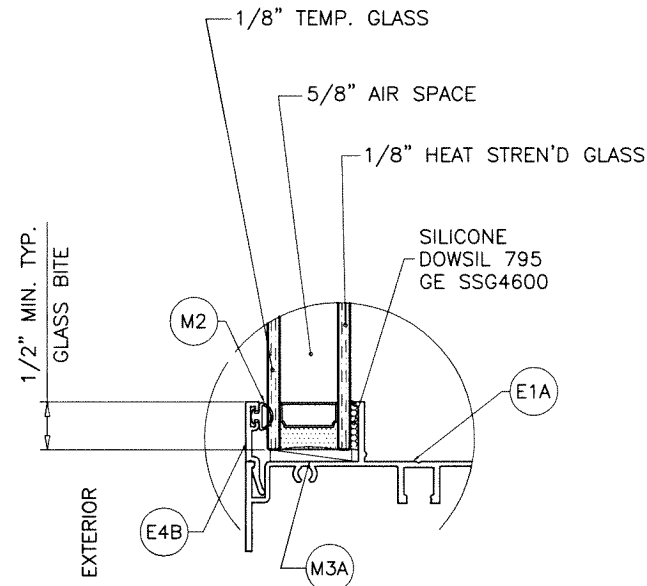
GLASS TYPE 'A'



GLASS TYPE 'Ai'



GLASS TYPE 'Bi'



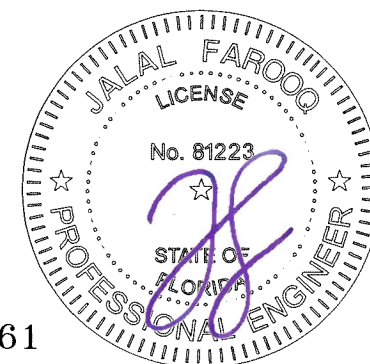
GLASS TYPE 'Ci'

GLAZING OPTIONS

7/16" & 5/8" 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: 8/24/2023

FL #21461



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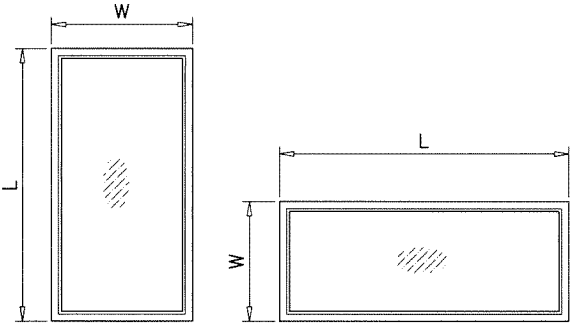
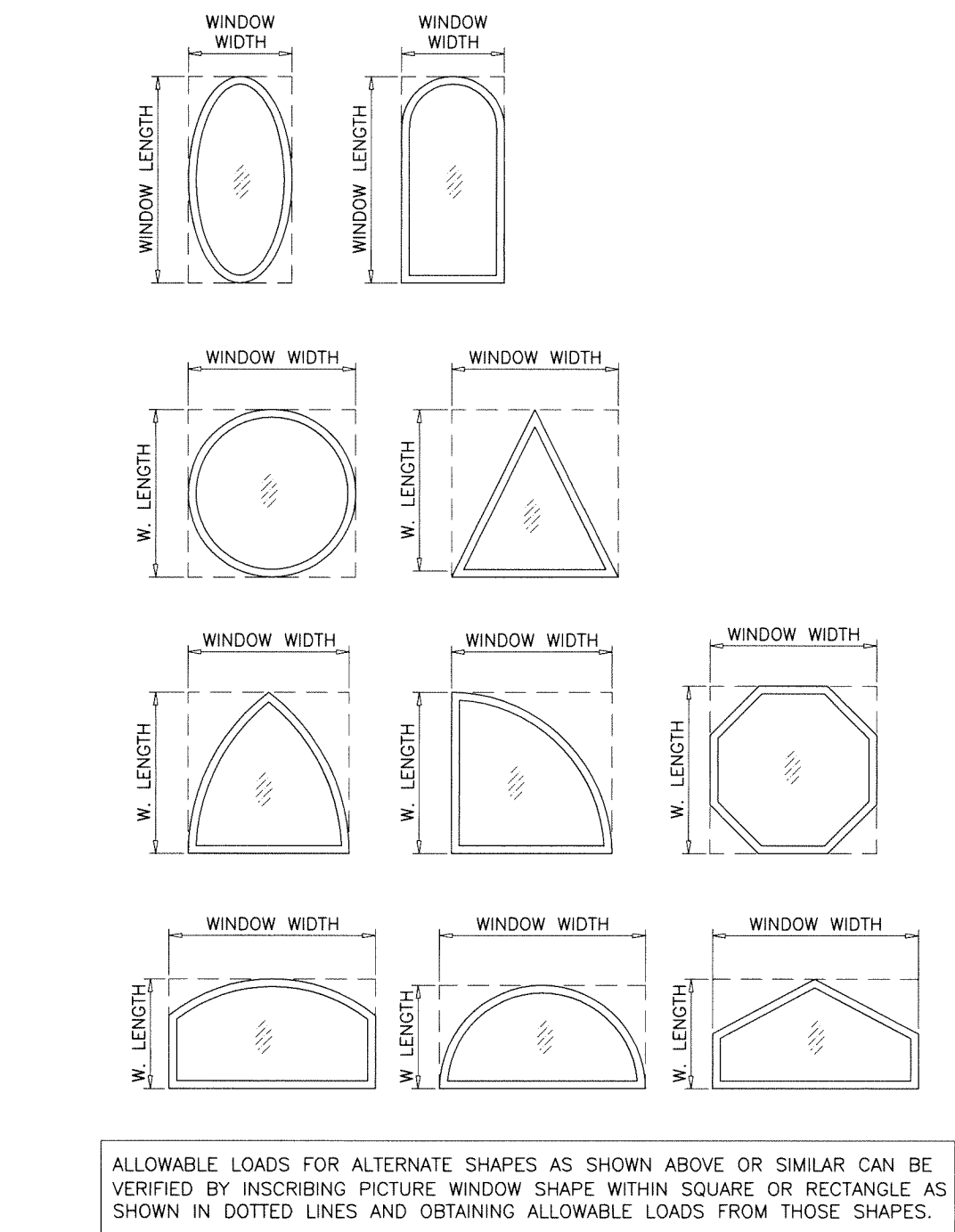
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 sheet 2 of 9

DESIGN LOAD CAPACITY – PSF FLANGE FRAMES, FLUSH FRAMES, FIN FRAMES							
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'Bi'		GLASS TYPE 'Ci'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
30"	48"	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	91.4	80.0	85.7	80.0	85.7
48"		80.0	80.0	75.0	75.0	75.0	75.0
54"		80.0	80.0	75.0	75.0	75.0	75.0
60"		80.0	80.0	75.0	75.0	75.0	75.0
30"	54"	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	100.0	80.0	100.0
42"		80.0	91.4	80.0	85.7	80.0	85.7
48"		80.0	80.0	75.0	75.0	75.0	75.0
54"		71.1	71.1	66.7	66.7	66.7	66.7
60"		71.1	71.1	66.7	66.7	66.7	66.7
30"	60"	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	97.7	80.0	97.7
42"		80.0	91.4	80.0	85.7	80.0	85.7
48"		80.0	80.0	75.0	75.0	75.0	75.0
54"		71.1	71.1	66.7	66.7	66.7	66.7
60"		64.0	64.0	60.0	60.0	60.0	60.0
30"	66"	80.0	100.0	80.0	100.0	80.0	100.0
36"		80.0	100.0	80.0	94.1	80.0	94.1
42"		80.0	91.4	80.0	85.7	80.0	85.7
48"		80.0	80.0	75.0	75.0	75.0	75.0
54"		71.1	71.1	66.7	66.7	66.7	66.7
60"		64.0	64.0	–	–	–	–
30"	72"	80.0	100.0	80.0	90.5	80.0	95.5
36"		80.0	100.0	80.0	91.2	80.0	91.2
42"		80.0	91.4	80.0	82.8	80.0	82.8
48"		80.0	80.0	75.0	75.0	75.0	75.0
54"		71.1	71.1	–	–	–	–
60"		64.0	64.0	–	–	–	–
30"	78"	80.0	100.0	80.0	80.5	80.0	85.0
36"		80.0	100.0	80.0	84.1	80.0	88.8
42"		80.0	91.4	80.0	80.3	80.0	80.3
48"		80.0	80.0	–	–	–	–
54"		71.1	71.1	–	–	–	–
30"	84"	80.0	100.0	72.9	72.9	76.9	76.9
36"		80.0	100.0	74.3	74.3	78.4	78.4
42"		80.0	91.4	74.5	74.5	78.2	78.2
48"		80.0	80.0	–	–	–	–
54"		71.1	71.1	–	–	–	–
30"	90"	80.0	100.0	68.0	68.0	71.8	71.8
36"		80.0	100.0	67.6	67.6	71.4	71.4
42"		80.0	89.4	–	–	–	–
48"		80.0	80.0	–	–	–	–
30"	96"	80.0	100.0	63.7	63.7	67.2	67.2
36"		80.0	98.5	60.5	60.5	63.9	63.9
42"		80.0	87.8	–	–	–	–
48"		80.0	80.0	–	–	–	–

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300–09 (3 SEC. GUSTS).

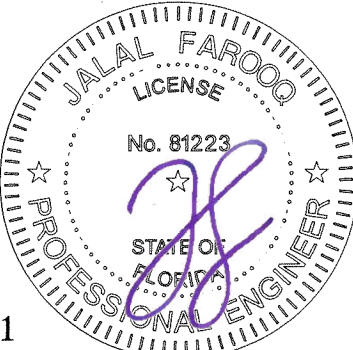
DESIGN LOAD CAPACITY – PSF FLANGE FRAMES, FLUSH FRAMES, FIN FRAMES							
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'Bi'		GLASS TYPE 'Ci'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
30"	102"	80.0	100.0	60.1	60.1	63.4	63.4
36"		80.0	97.1	–	–	–	–
42"		80.0	86.3	–	–	–	–
30"	108"	80.0	100.0	57.1	57.1	60.3	60.3
36"		80.0	96.0	–	–	–	–
42"		80.0	85.1	–	–	–	–
30"	114"	80.0	100.0	55.4	55.4	58.5	58.5
36"		80.0	95.0	–	–	–	–
30"	120"	80.0	100.0	54.2	54.2	57.2	57.2
36"		80.0	94.1	–	–	–	–

DESIGN LOAD CAPACITY – PSF FLANGE FRAMES, FLUSH FRAMES, FIN FRAMES							
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'Bi'		GLASS TYPE 'Ci'	
WIDTH	HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
19–1/8"	26"	80.0	100.0	80.0	100.0	80.0	100.0
26–1/2"		80.0	100.0	80.0	100.0	80.0	100.0
37"		80.0	100.0	80.0	100.0	80.0	100.0
48"		80.0	100.0	80.0	100.0	80.0	100.0
53–1/8"		80.0	100.0	80.0	100.0	80.0	100.0
19–1/8"	38–3/8"	80.0	100.0	80.0	100.0	80.0	100.0
26–1/2"		80.0	100.0	80.0	100.0	80.0	100.0
37"		80.0	100.0	80.0	97.3	80.0	97.3
48"		80.0	100.0	80.0	93.8	80.0	93.8
53–1/8"	50–5/8"	80.0	100.0	80.0	93.8	80.0	93.8
19–1/8"		80.0	100.0	80.0	100.0	80.0	100.0
26–1/2"		80.0	100.0	80.0	100.0	80.0	100.0
37"		80.0	100.0	80.0	97.3	80.0	97.3
48"	56"	80.0	80.0	75.0	75.0	75.0	75.0
53–1/8"		75.9	75.9	71.1	71.1	71.1	71.1
19–1/8"	63"	80.0	100.0	80.0	100.0	80.0	100.0
26–1/2"		80.0	100.0	80.0	100.0	80.0	100.0
37"		80.0	100.0	80.0	94.2	80.0	94.2
48"		80.0	80.0	75.0	75.0	75.0	75.0
53–1/8"	76"	72.3	72.3	67.8	67.8	67.8	67.8
19–1/8"		80.0	100.0	80.0	100.0	80.0	100.0
26–1/2"		80.0	100.0	80.0	100.0	80.0	100.0
37"		80.0	100.0	80.0	88.0	80.0	88.0
48"		80.0	80.0	75.0	75.0	75.0	75.0
53–1/8"		72.3	72.3	–	–	–	–



Sealed: 8/24/2023

FL #21461



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revisions:

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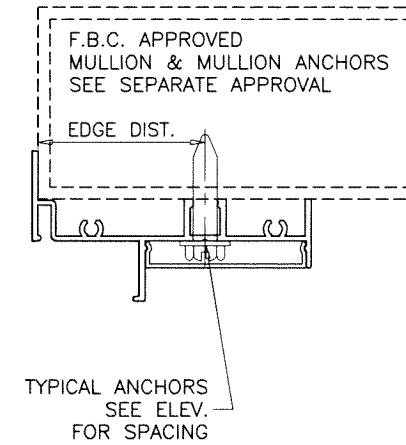
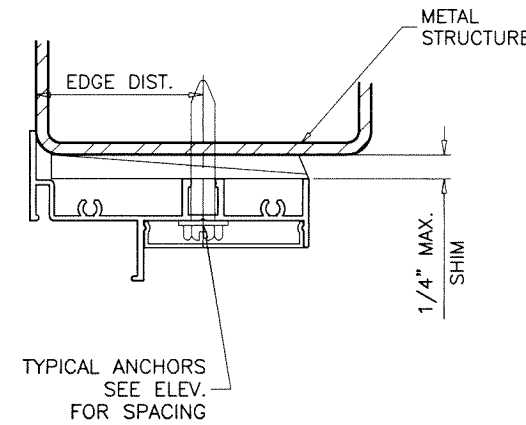
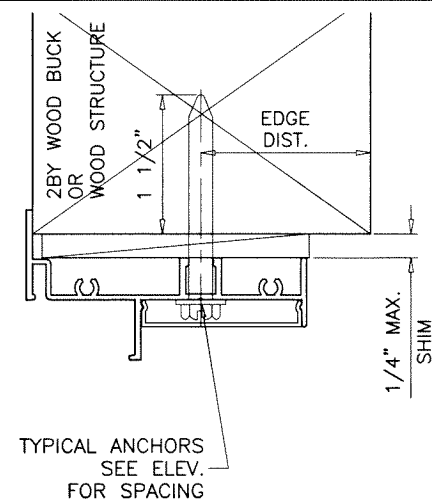
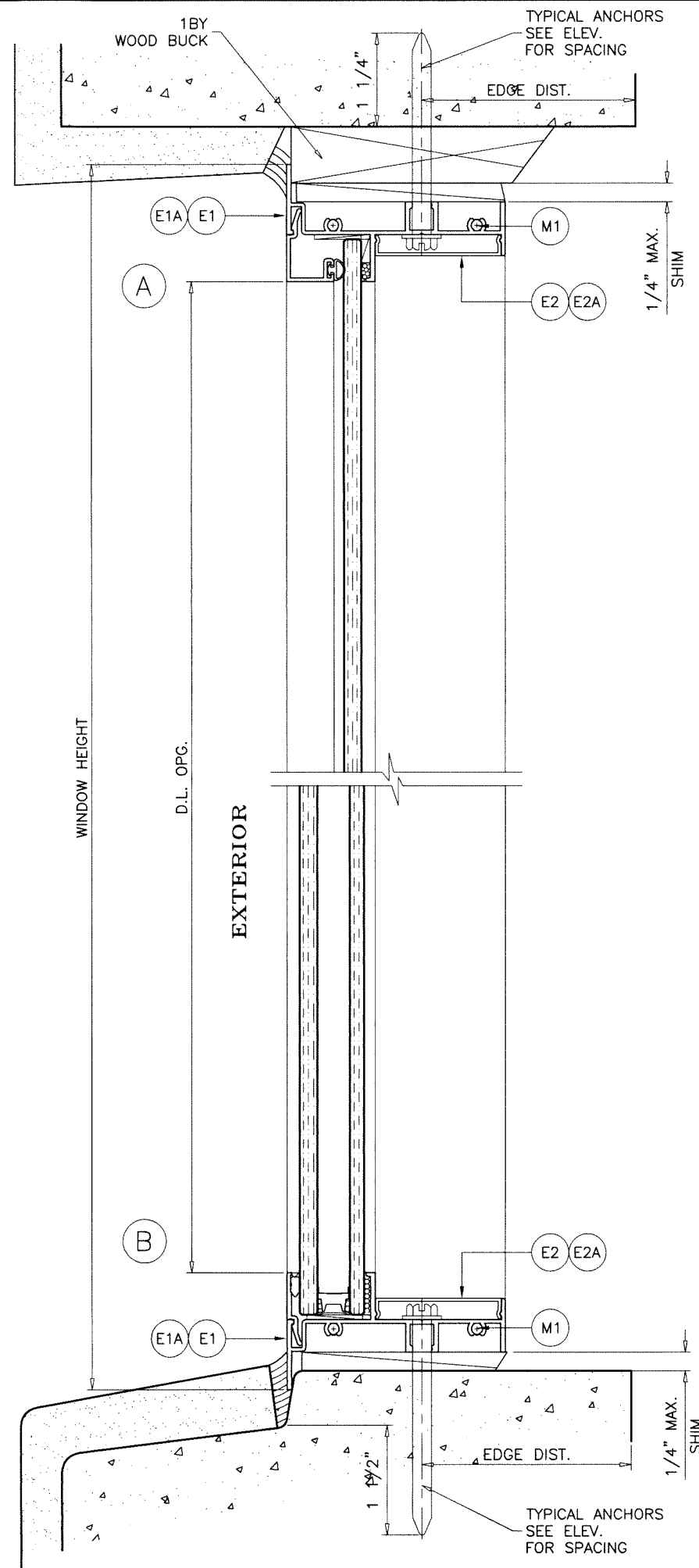
dr. by: TARIQ

chk. by:

drawing no.

20–61F

sheet 3 of 9



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

1/4" DIA. TAPCON BY 'ITW' ($F_u=125$ KSI, $F_y=100$ KSI)

1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES

1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR MASONRY

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

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

DIRECTLY INTO CONCRETE OR MASONRY

1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

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

1/4" DIA. TEKS OR SELF DRILLING SCREWS (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. ($F_y = 36$ KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2" MIN.

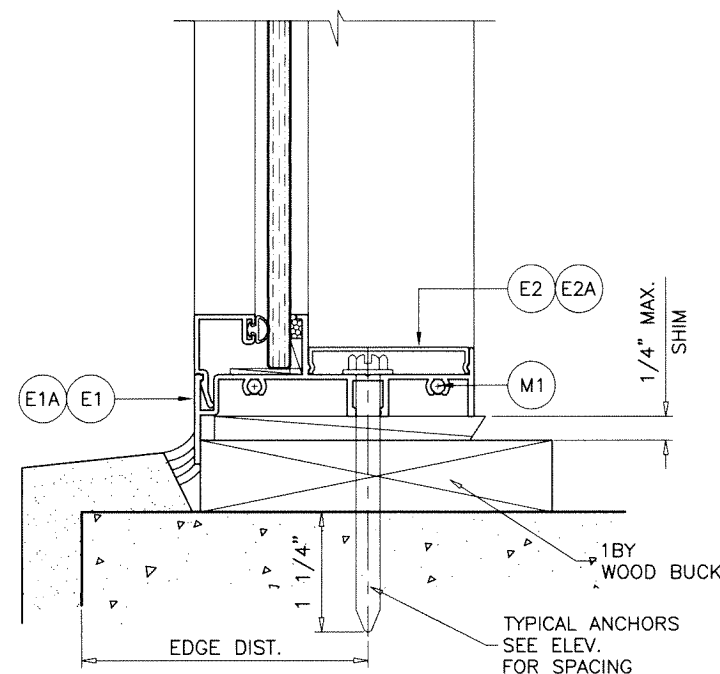
INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

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

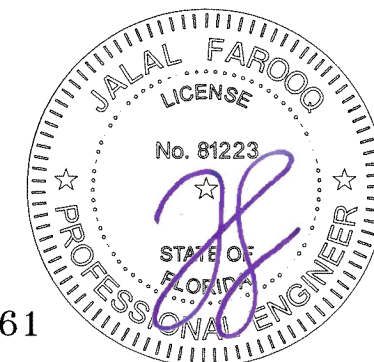
CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.

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



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FL #21461



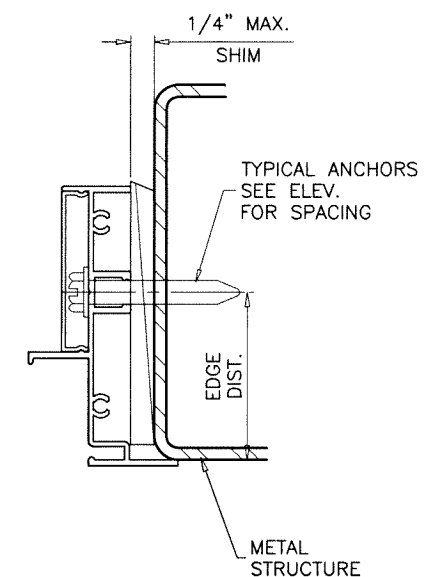
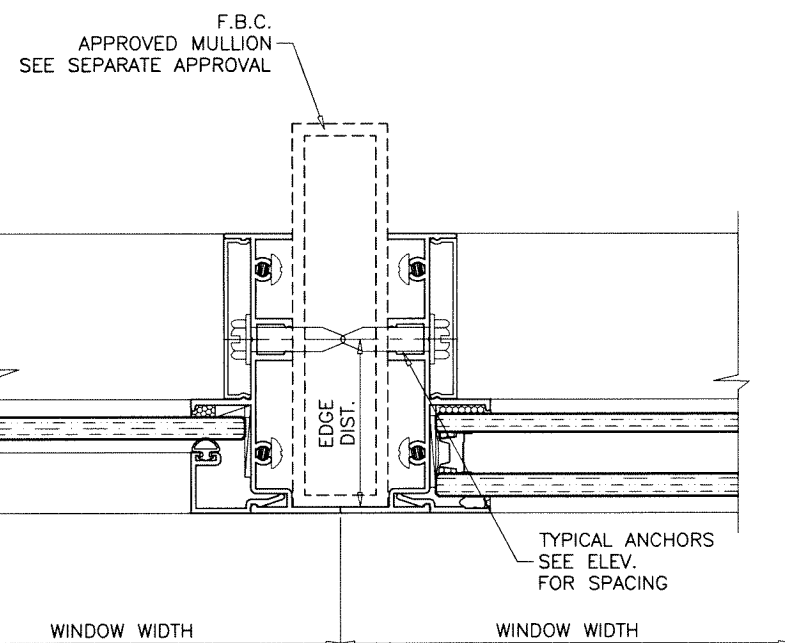
ES-EL150 FIXED ALUMINUM WDW. (N.I.)

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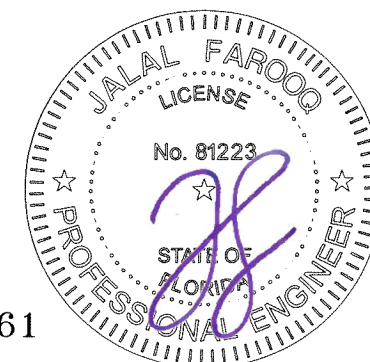
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dr. by:	TARIQ	chk. by:	
drawing no.	20-61F		
sheet	4 of 9		

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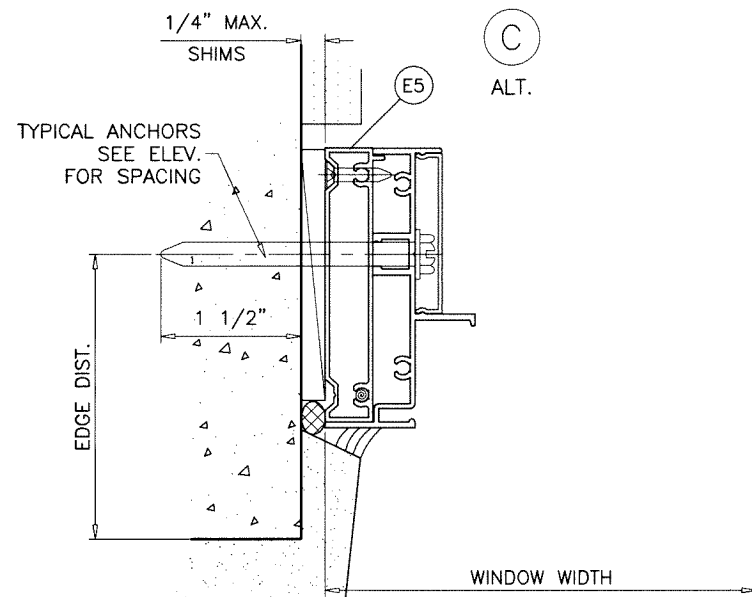
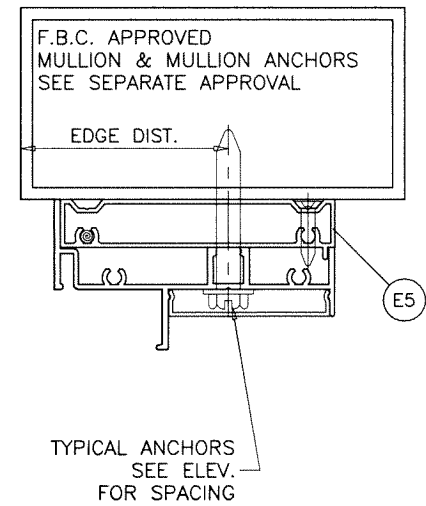
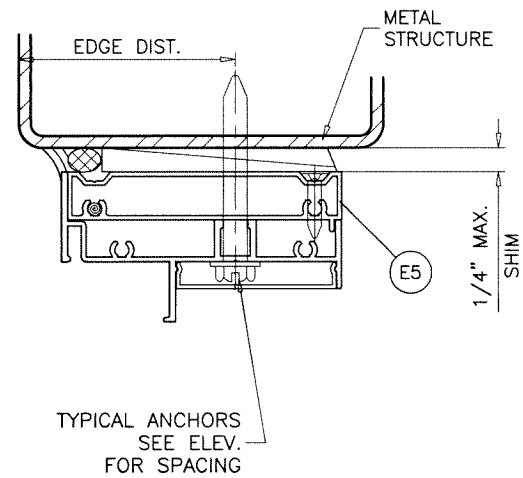
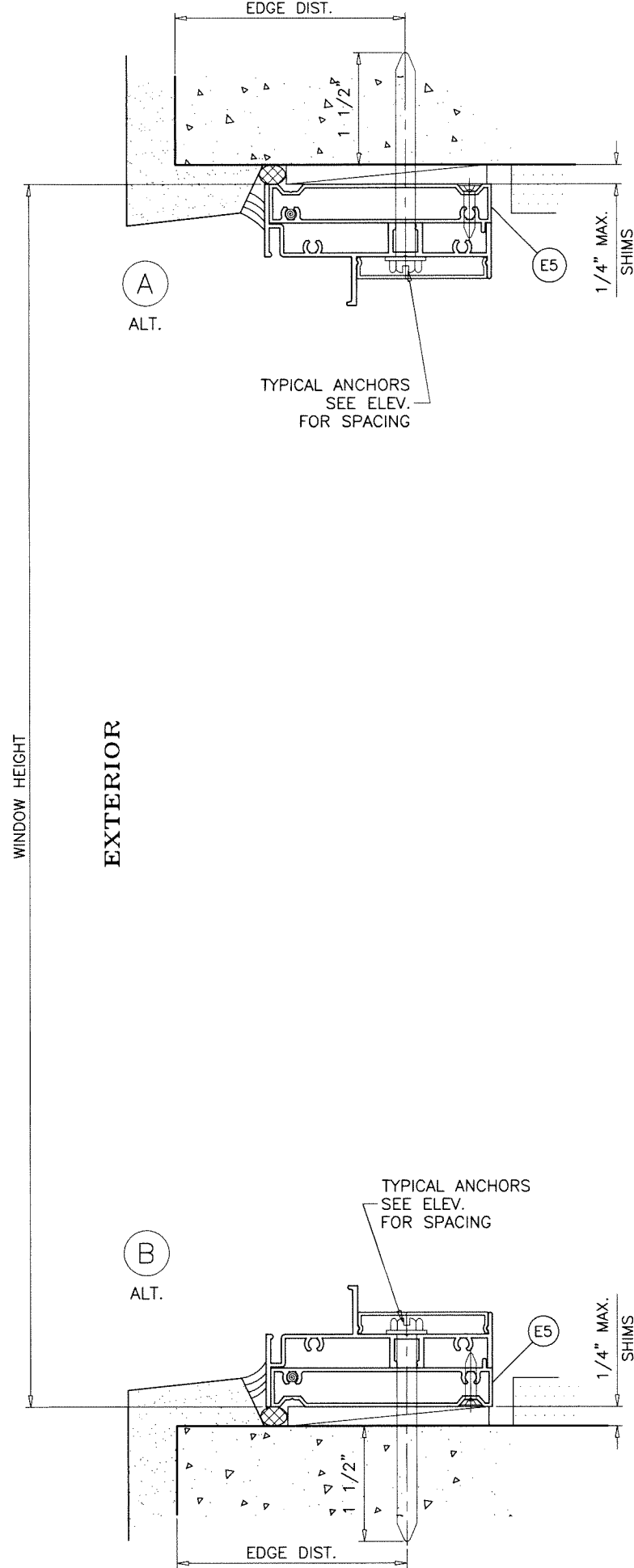
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FL #21461



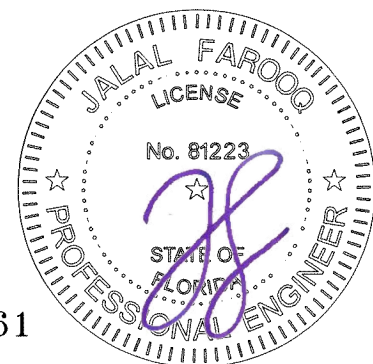
COMB-ANI \ 30 - €155



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTERS
SEE SHEETS 4 & 5 FOR WINDOW DETAILS

Sealed: 8/24/2023

FL #21461



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(C.A.N. 3538)

COMP-ANL 20-61FES

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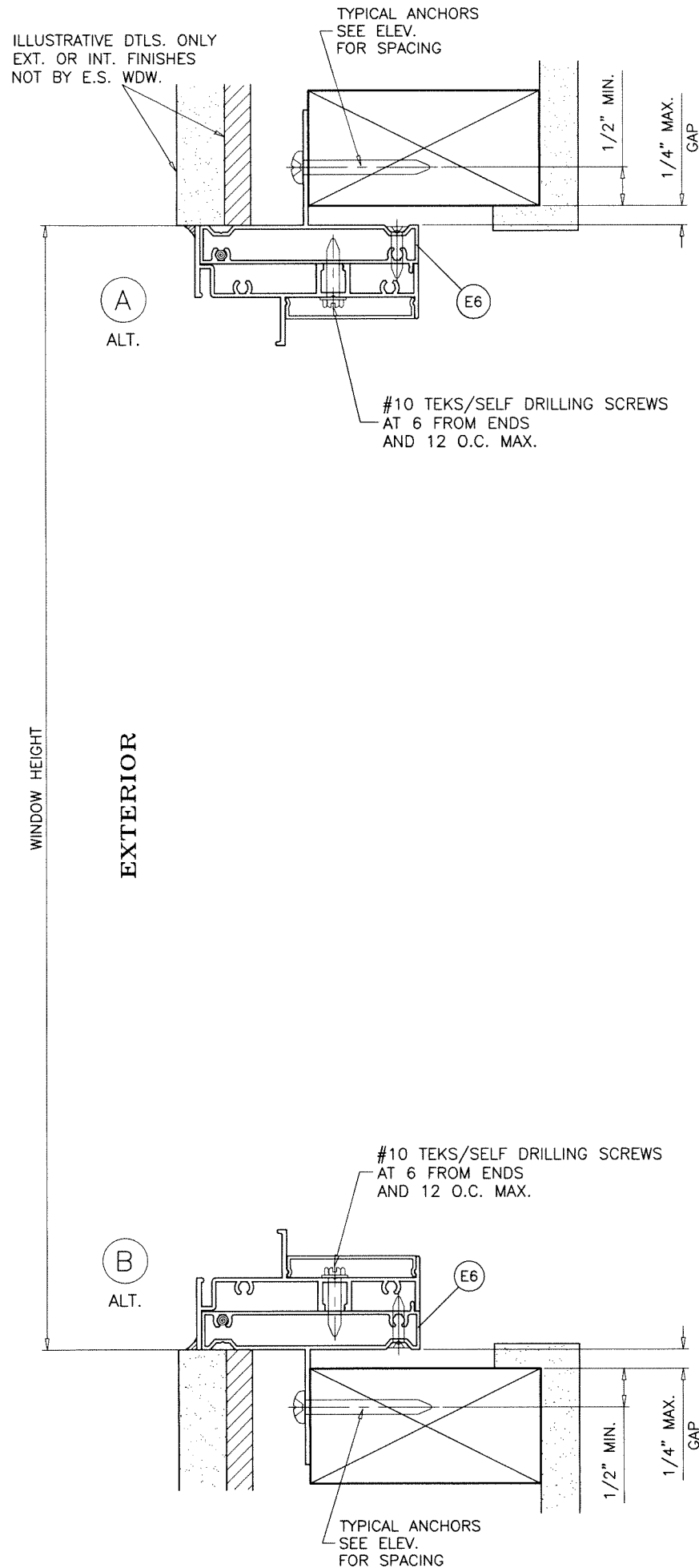
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chk. by:

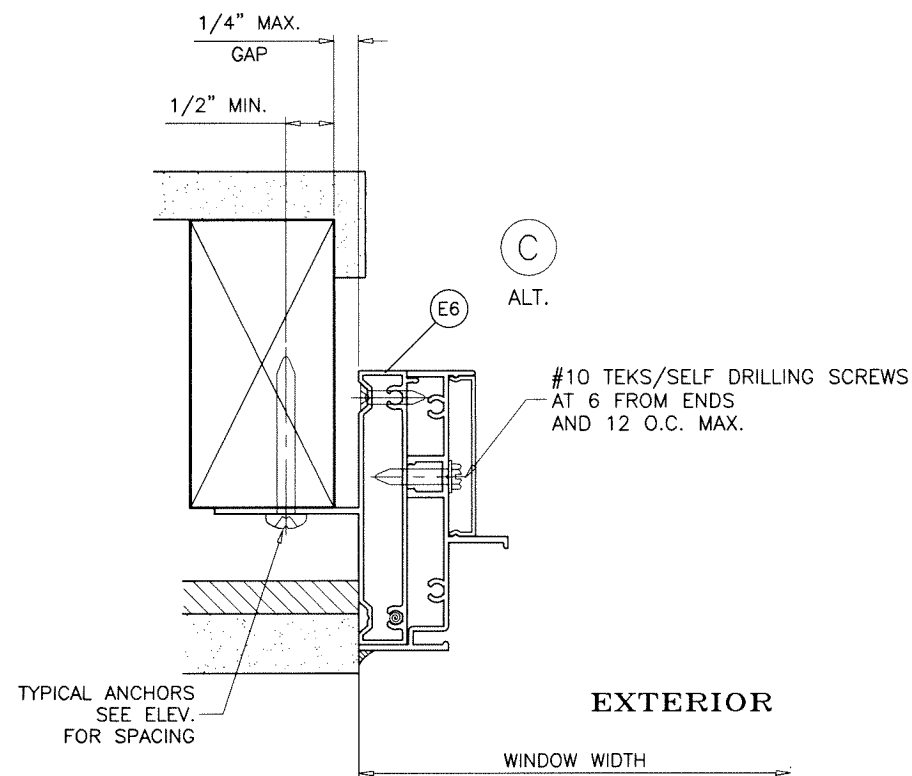
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20-61F

sheet 6 of 9



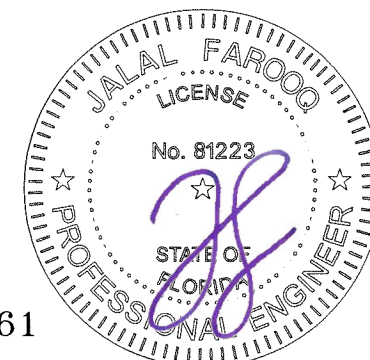
TYPICAL ANCHORS: SEE ELEV. FOR SPACING
#10 WOOD SCREWS (GRADE 2 CRS)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD



INSTALLATION DETAILS WITH FIN FRAME ADAPTERS
 SEE SHEETS 4 & 5 FOR WINDOW DETAILS

Sealed: 8/24/2023

FL #21461



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\20-61FES

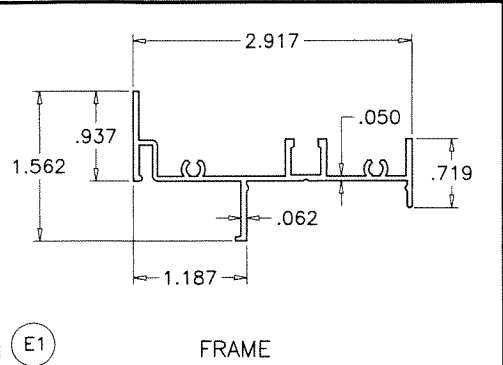
ES-EL150 FIXED ALUMINUM WDW. (N.I.)

E.S. WINDOWS, LLC
 3550 N.W. 49 STREET
 MIAMI, FL. 33142
 TEL. (305) 638-5151 FAX. (305) 638-5158

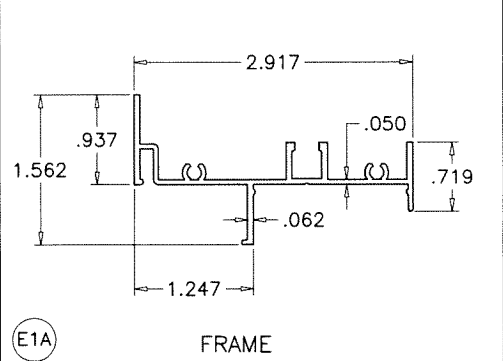
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no	date by description

date: 08-04-20	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:	
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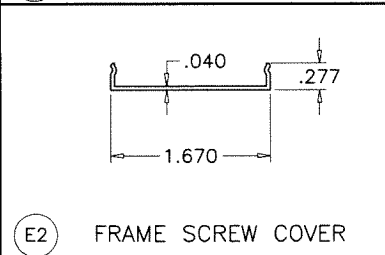
drawing no.	no.
20-61F	20-61F
sheet 7 of 9	



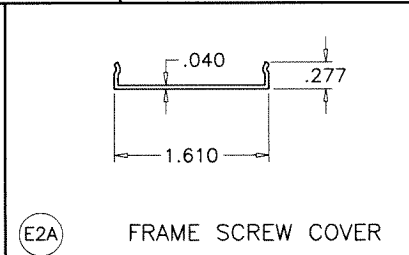
E1 FRAME



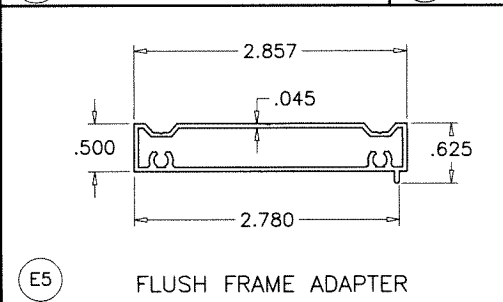
E1A FRAME



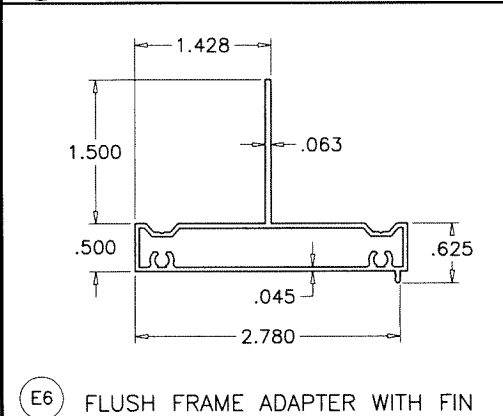
E2 FRAME SCREW COVER



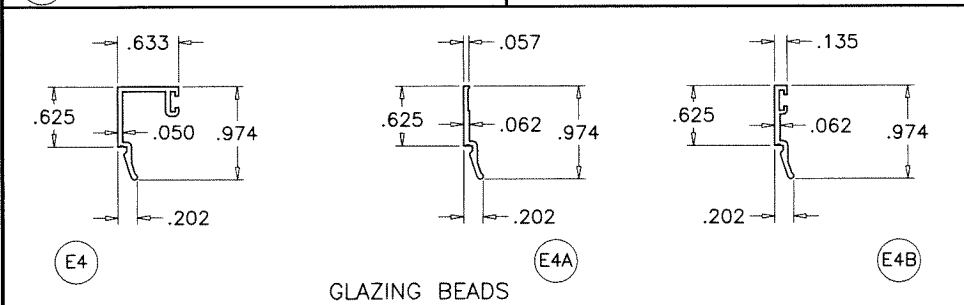
E2A FRAME SCREW COVER



E5 FLUSH FRAME ADAPTER



E6 FLUSH FRAME ADAPTER WITH FIN

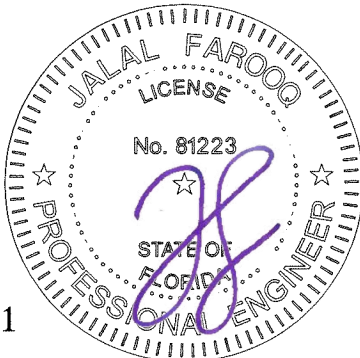


GLAZING BEADS

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL151	1	FRAME	6063-T6	-
E1A	ES-EL155	1	FRAME	6063-T6	-
E2	ES-EL152	AS REQD.	FRAME SCREW COVER	6063-T6	-
E2A	ES-EL156	AS REQD.	FRAME SCREW COVER	6063-T6	-
E4	ES-EL109	AS RQD.	GLAZING BEAD (1/4" GLASS)	6063-T6	-
E4A	ES-EL116	AS RQD.	GLAZING BEAD (INSUL. GLASS)	6063-T6	-
E4B	ES-EL111	AS RQD.	GLAZING BEAD (7/8" GLASS)	6063-T6	-
E5	ES-EL112	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-
E6	ES-EL115	AS REQD.	FLUSH FRAME ADAPTER WITH FIN	6063-T6	-
M1	#8 X 1"	-	FRAME ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M2	ES-7530-G10B S	AS REQD.	EXTERIOR BULB GASKET	SILICONE	DUROMETER 60±5 SHORE A
M2A	ES-H-340-G05	AS REQD.	EXTERIOR WEDGE GASKET	SILICONE	DUROMETER 65±5 SHORE A
M3	ES-9500-B01A	2/ LITE	SETTING BLOCK AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
M3A	ES-EL100-B01 S	2/ LITE	SETTING BLOCK AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
M4	T-BOND	AS REQD.	GLAZING TAPE (3/16" X 3/8")	FOAM	-
M5	#8 X 1"	-	FLUSH/FIN FRAME ADAPTER ASSEMBLY FASTENERS	ST. STEEL	FH SMS

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FL #21461



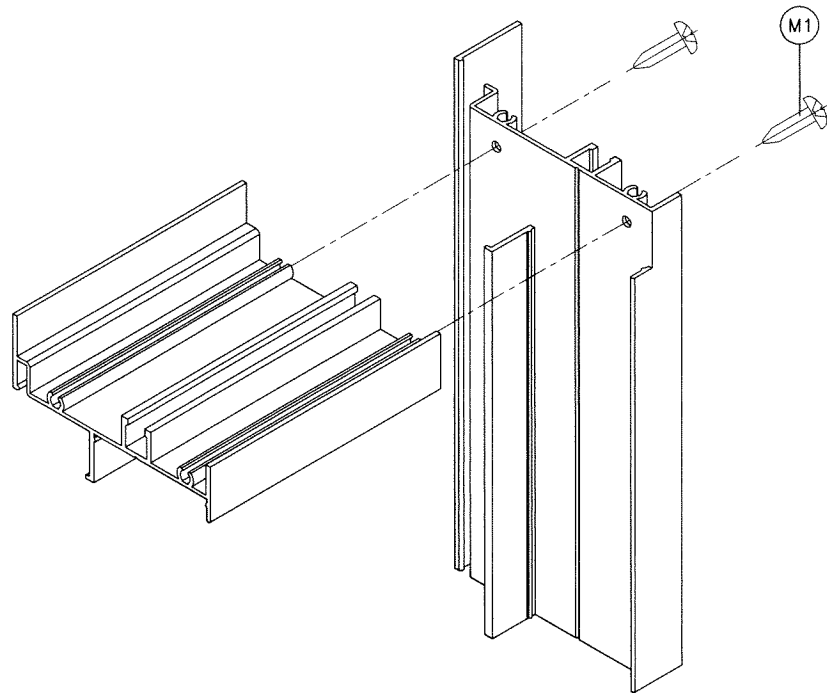
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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ES-EL150 FIXED ALUMINUM WDW. (N.I.)

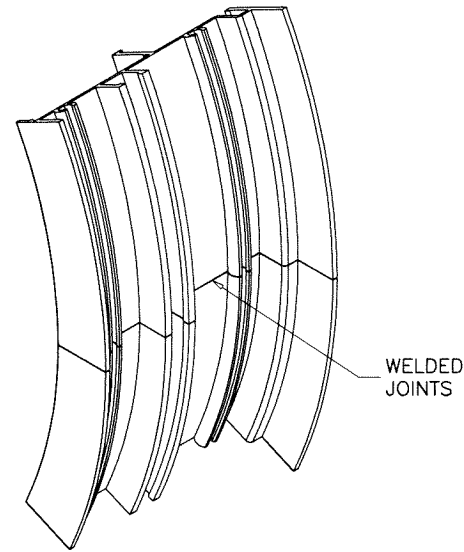
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revisions:		no date by description	
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dr. by:	TARIQ	chk. by:	
drawing no.	20-61F	sheet	8 of 9

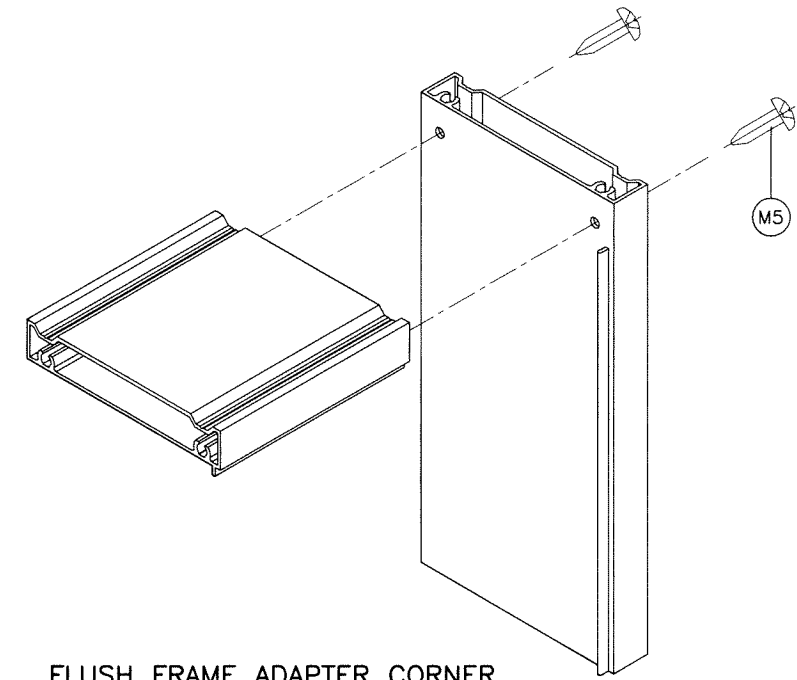
COMP-ANL\20-61FES



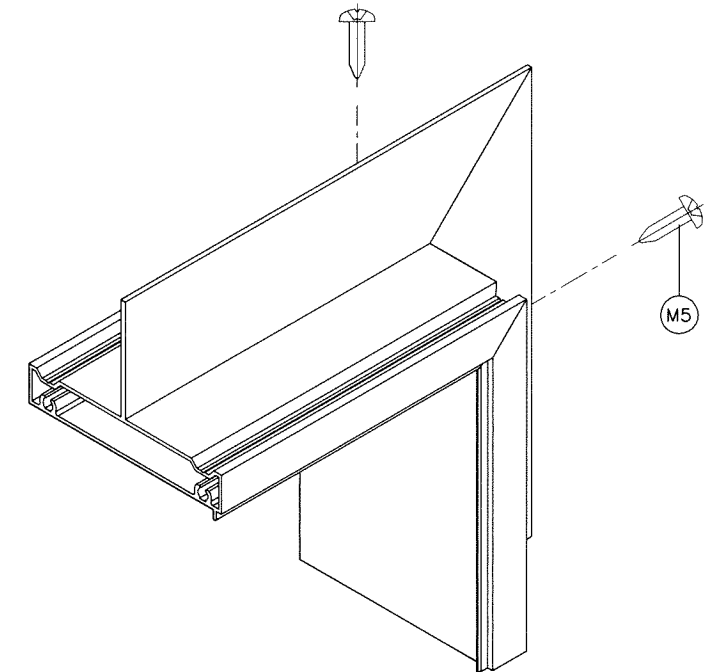
RECT. OR SQUARE WINDOWS



CIRCULAR WINDOWS



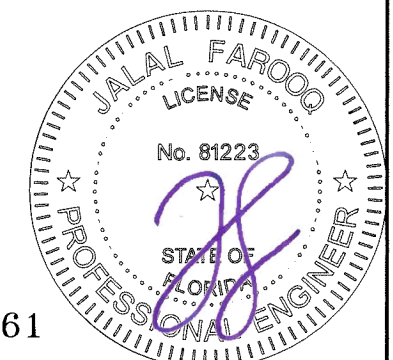
FLUSH FRAME ADAPTER CORNER



FIN FRAME ADAPTER CORNER

Sealed: 8/24/2023

FL #21461



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\20-61FES	
ES-EL150 FIXED ALUMINUM WDW. (N.I.)		E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
date: 08-04-20	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
drawing no. 20-61F		sheet 9 of 9	