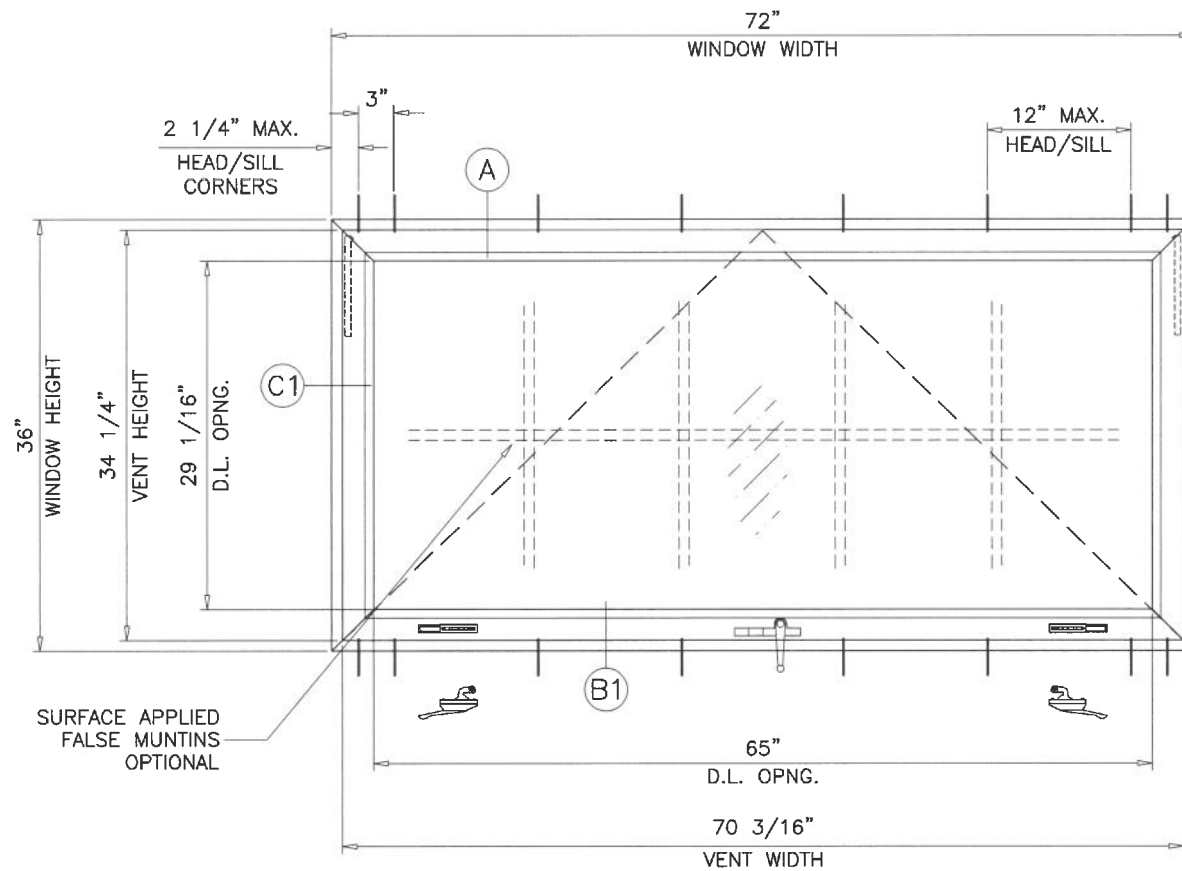
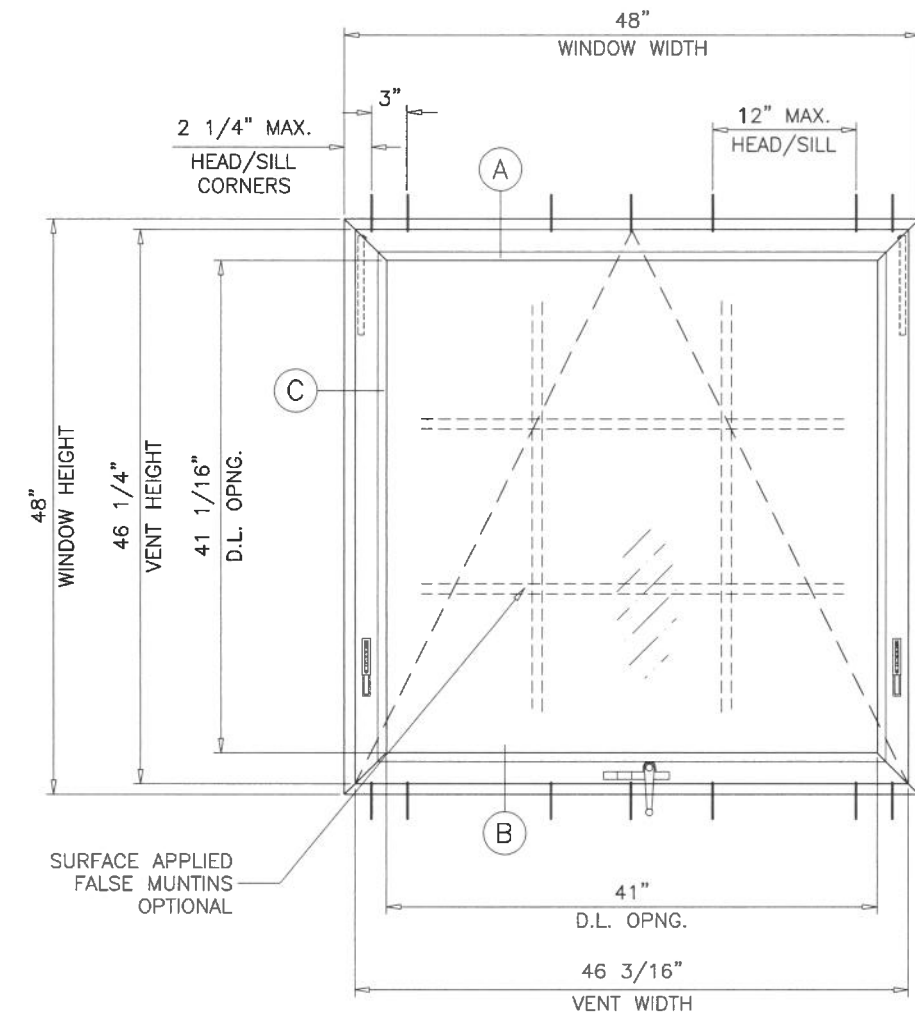




TYPICAL ELEVATION
WDW. WITH CAM LOCKS



TYPICAL ELEVATION
WDW. WITH 3 POINT LOCKS

WINDOWS WITH 3 POINT LOCKS AND GLASS TYPE 'AA'
COMPLY WITH REQUIREMENTS OF ANSI Z97.1.
SAFEGUARD REQUIREMENTS TO BE VERIFIED.

ES-5500 PROJECT-OUT ALUMINUM WINDOW (L.M.I.)

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER
CHART SHOWN ON SHEET 1.2.

APPROVAL APPLIES TO SINGLE UNITS, SIDE BY SIDE OR STACKED
COMBINATIONS OF P.O./P.O. OR PROJECT OUT 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.

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

Sealed: 7/17/2026

FL #22266

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.

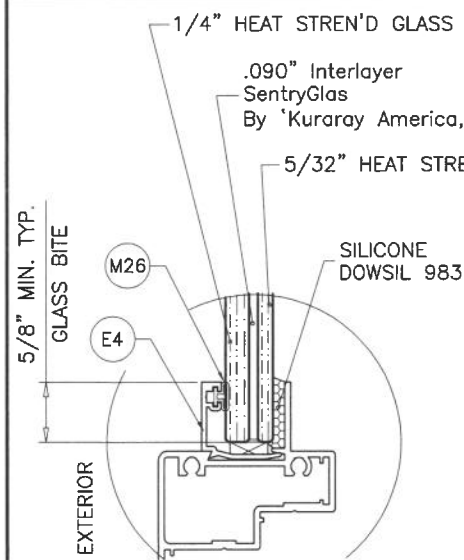
C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED
ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.)
FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER
USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED
ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT 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.

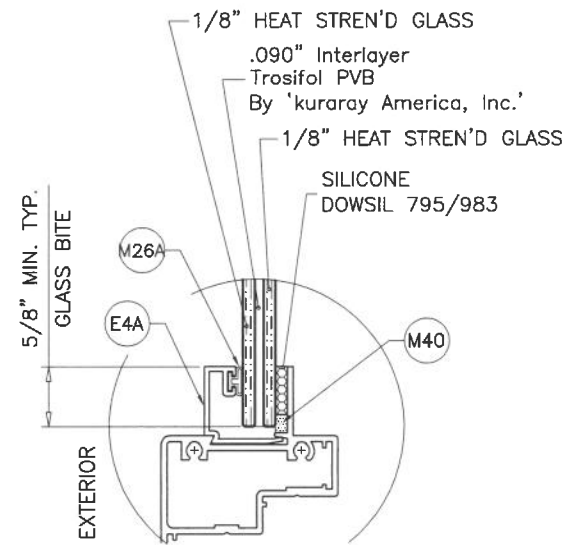


af c	
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978	
ES-5500 PROJECT-OUT ALUMINUM WDW. (L.M.I.)	
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
revisions:	no date by description
	E 07.25.23 UPDATED TO 2023 FBC
	F 12.13.23 WDW. SIZES IN CHART REMOVED
	G 06.10.26 GLASS TYPES E & F ADDED
	H 07.13.26 UPDATED TO 2026 FBC
date:	04-12-17
scale:	3/4"=1'-0"
dr. by:	TARIQ
chk. by:	
drawing no.	W16-80
sheet	1 of 6

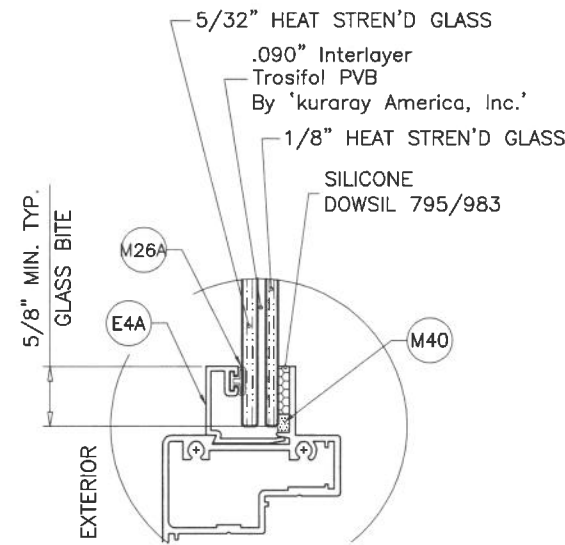
COMP-ANL\W16-80ES



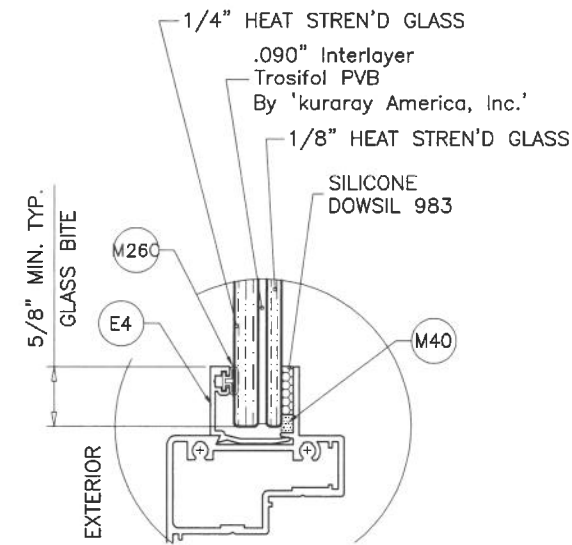
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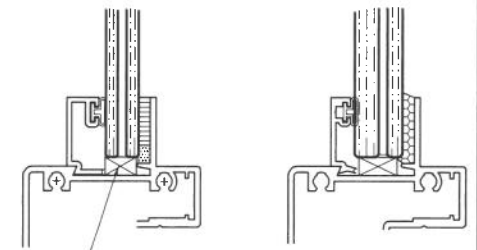
GLASS TYPE 'A'



GLASS TYPE 'C'

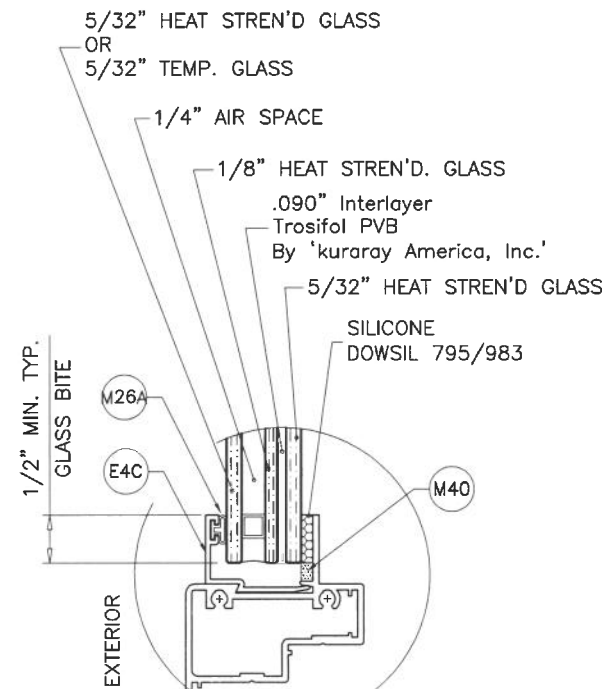


GLASS TYPE 'G'

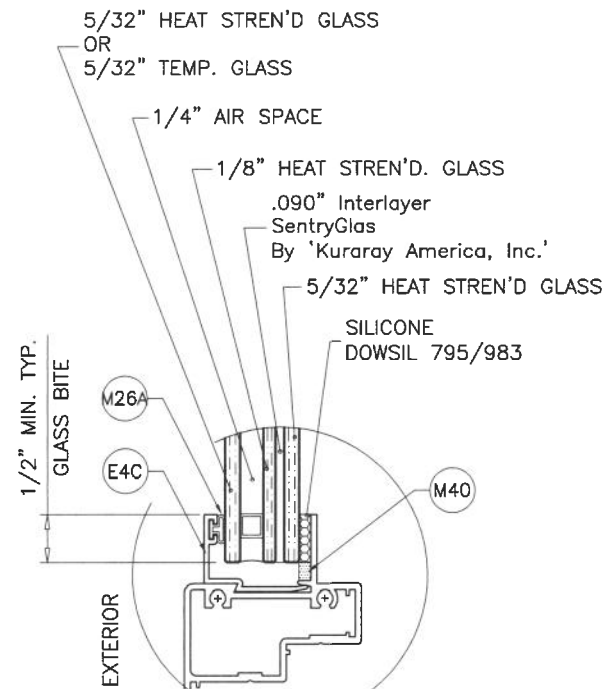


AT 1/4 POINTS ON LITES
WIDER THAN 36"

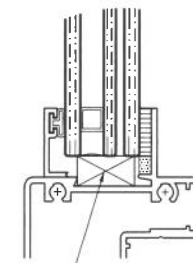
SETTING BLOCKS AT LAM. GLASS
NOTCH GLAZING BEAD LEG
TO CLEAR BLOCKS



GLASS TYPE 'E'

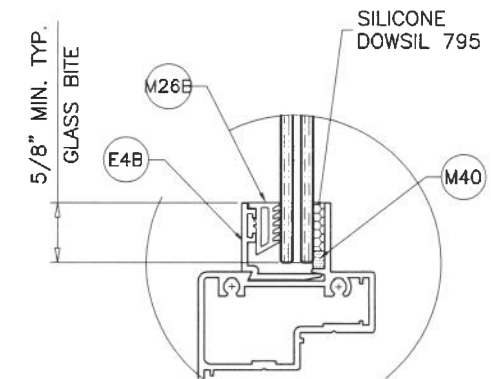


GLASS TYPE 'F'



AT 1/4 POINTS ALL SIZES

SETTING BLOCKS AT INSUL. LAM. GLASS
NOTCH GLAZING BEAD LEG
TO CLEAR BLOCKS



ALT. GLAZING OPTION

THESE GLAZING STOP CAN BE USED WITH
GLASS TYPES 'A' & 'C'

1/4" 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

NOTE:

TO QUALIFY FOR SMALL MISSILE IMPACT RATING
EXTERIOR PLY OF GLASS TYPES 'E' & 'F' MUST BE TEMPERED.

GLAZING OPTIONS

Sealed: 7/17/2026



FL #22266

af c
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COMP-ANL W16-80ES

ES-5500 PROJECT-OUT ALUMINUM WDW. (L.M.I.)

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revisions:
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date: 04-12-17
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dr. by: TARIQ
chk. by:

drawing no.
W16-80
sheet 1.1 of 6

DESIGN LOAD CAPACITY – PSF																			
FRAME DIMS.		WITH CAM LOCKS								WITH 3 POINT LOCK									
		GLASS TYPE 'AA'		GLASS TYPE 'A'		GLASS TYPE 'C'		GLASS TYPES 'E' & 'F'		GLASS TYPE 'AA'		GLASS TYPE 'A'		GLASS TYPE 'C'		GLASS TYPE 'G'		GLASS TYPES 'E' & 'F'	
WIDTH	HEIGHT	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)
53–1/8"	26"	100.0	110.0	85.0	85.0	85.0	85.0	85.0	85.0	–	–	–	–	–	–	–	–	–	–
19–1/8"	38–3/8"	–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
26–1/2"		–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
37"		–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
54"	24"	100.0	110.0	85.0	85.0	85.0	85.0	85.0	85.0	–	–	–	–	–	–	–	–	–	–
60"		100.0	110.0	85.0	85.0	85.0	85.0	85.0	85.0	–	–	–	–	–	–	–	–	–	–
66"		100.0	110.0	85.0	85.0	85.0	85.0	85.0	85.0	–	–	–	–	–	–	–	–	–	–
72"		100.0	110.0	–	–	85.0	85.0	85.0	85.0	–	–	–	–	–	–	–	–	–	–
24"	36"	–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
30"		–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
32"		–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
36"		–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
42"		–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
48"		–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
54"		100.0	110.0	85.0	85.0	85.0	85.0	85.0	85.0	–	–	–	–	–	–	–	–	–	–
60"		100.0	110.0	85.0	85.0	85.0	85.0	85.0	85.0	–	–	–	–	–	–	–	–	–	–
66"		100.0	110.0	–	–	85.0	85.0	85.0	85.0	–	–	–	–	–	–	–	–	–	–
72"		100.0	110.0	–	–	85.0	85.0	85.0	85.0	–	–	–	–	–	–	–	–	–	–
24"	48"	–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
30"		–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
32"		–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
36"		–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
42"		–	–	–	–	–	–	–	–	100.0	125.0	85.0	85.0	90.0	90.0	90.0	114.0	90.0	90.0
48"		–	–	–	–	–	–	–	–	100.0	125.0	–	–	90.0	90.0	90.0	98.1	–	–

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

Sealed: 7/17/2026



FL #22266

**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)

ES-5500 PROJECT–OUT ALUMINUM WDW. (L.M.I.)

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

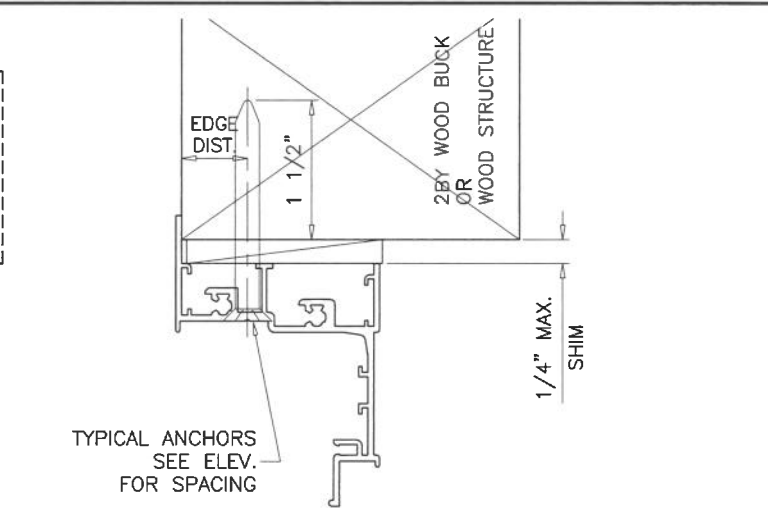
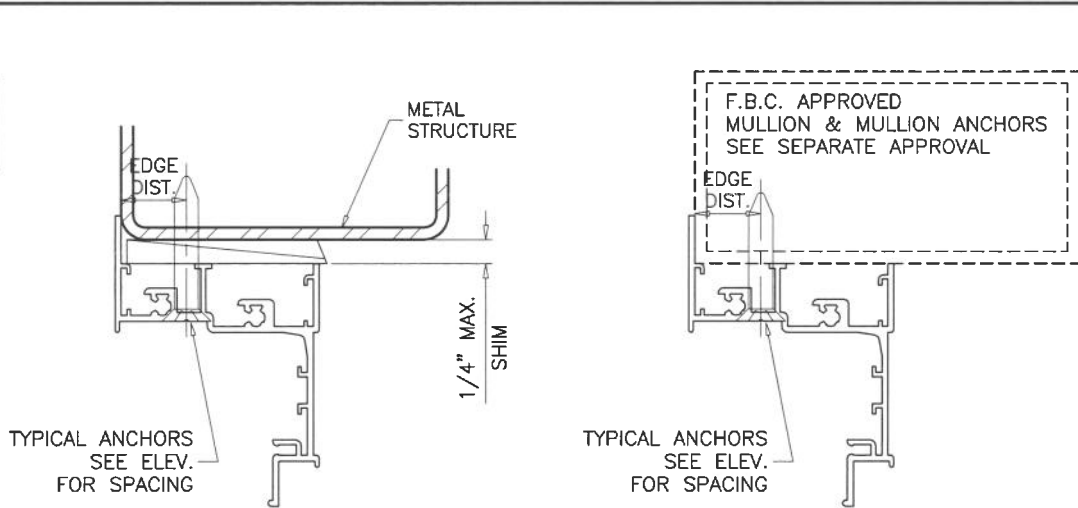
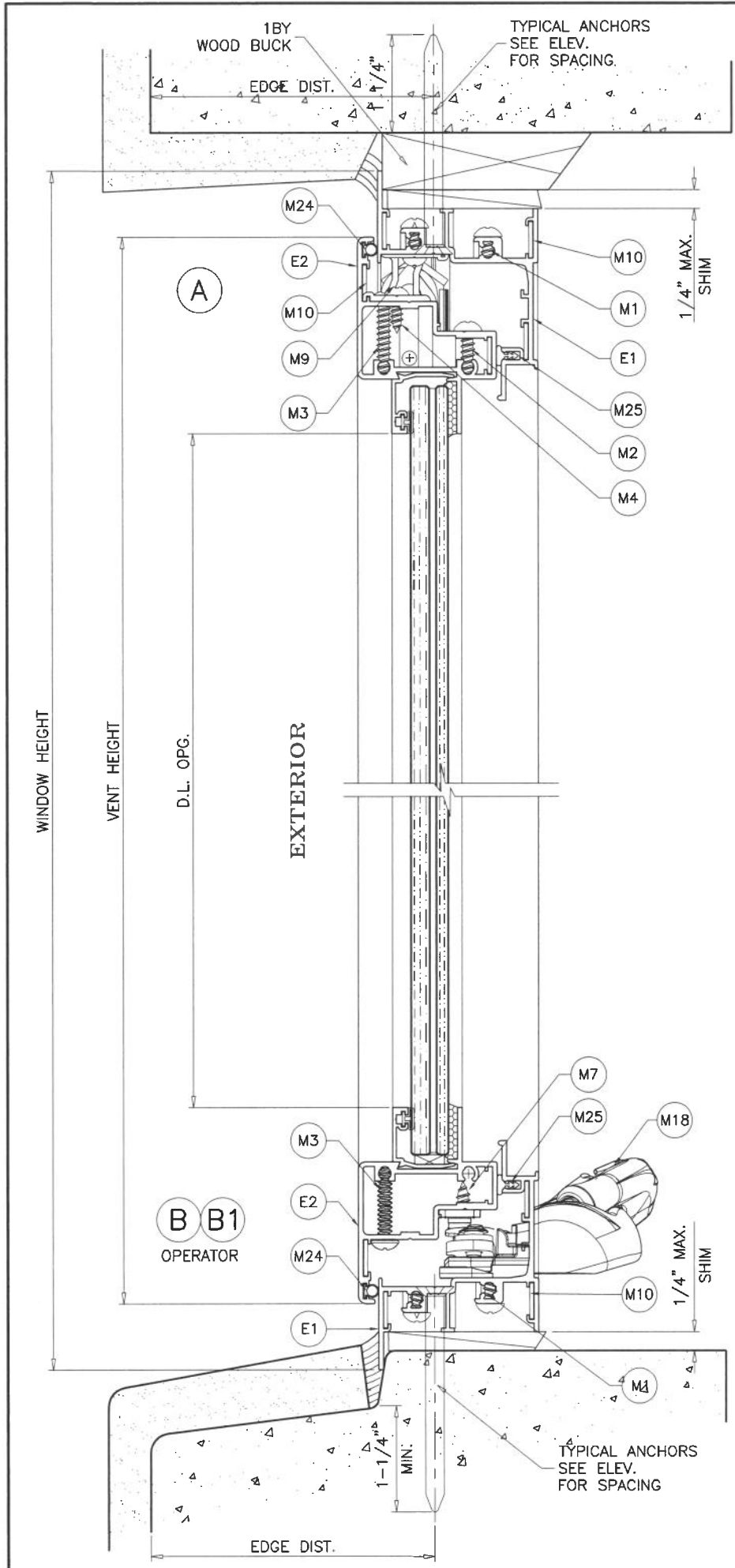
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dr. by: TARIQ
chk. by:

drawing no.
W16–80

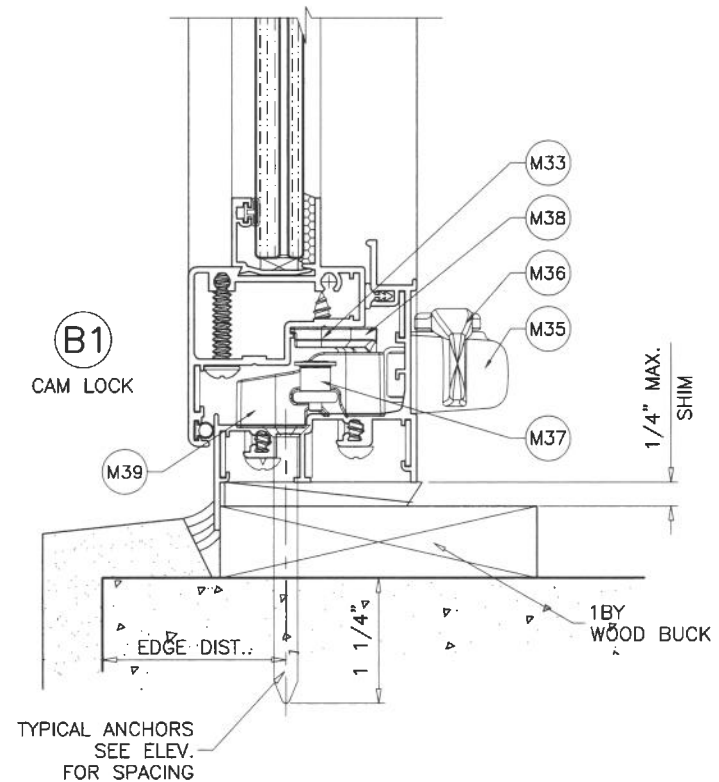
sheet 1.2 of 6

COMP–ANL\W16–80ES



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
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)
 THRU 1BY BUCKS INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
 DIRECTLY INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/SILL)
 (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 = 11/16" MIN.
 INTO METAL STRUCTURE = 11/16" MIN.
 WOOD AT HEAD OR SILL SG = 0.55 MIN.
 CONCRETE AT HEAD OR SILL f'c = 3000 PSI MIN.



Sealed: 7/17/2026



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 COMP-ANL\W16-80ES

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revisions:	
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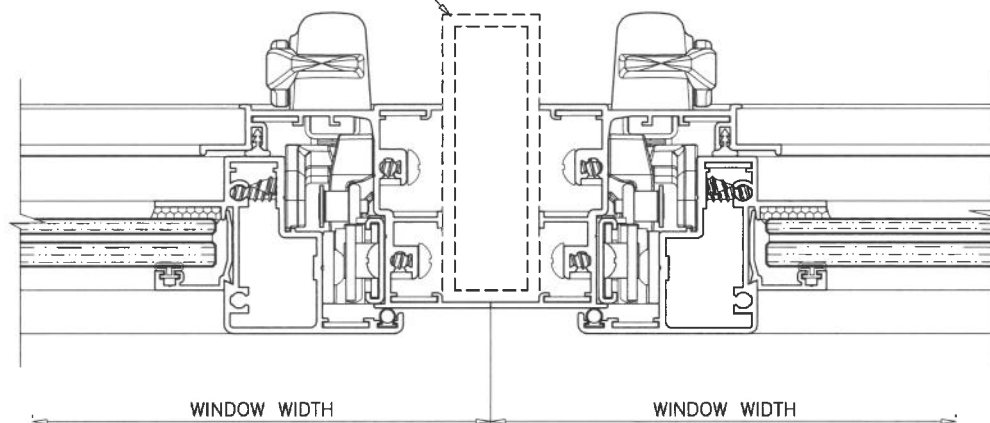
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chk. by:

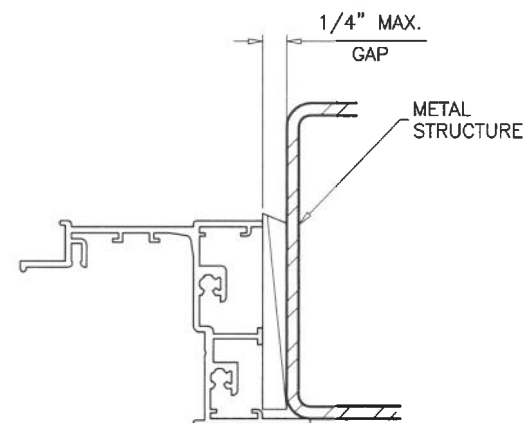
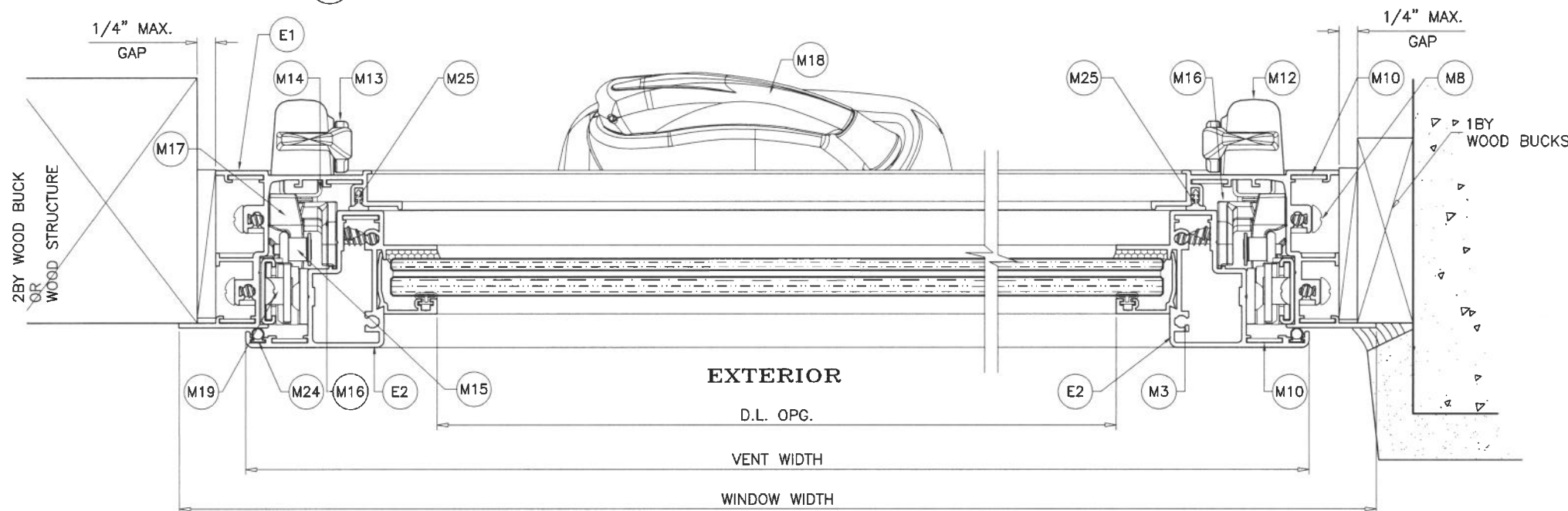
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sheet 2 of 6

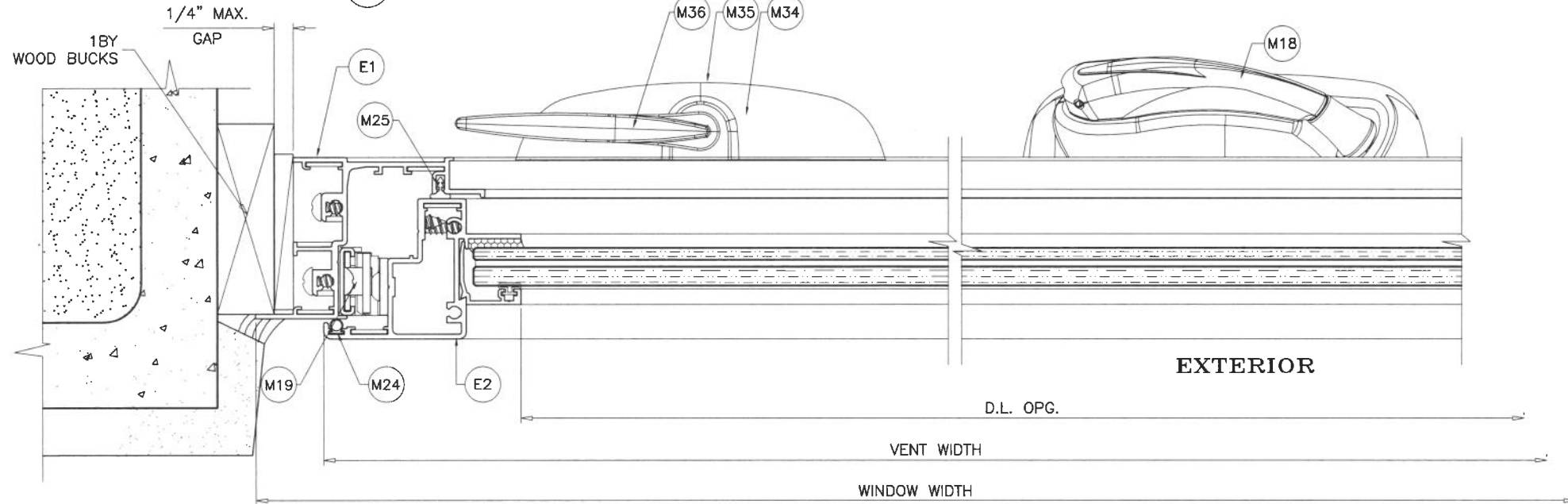
F.B.C.
APPROVED MULLION
SEE SEPARATE APPROVAL



C



C1



Sealed: 7/17/2026



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revisions:	
no	date by description

date: 04-12-17

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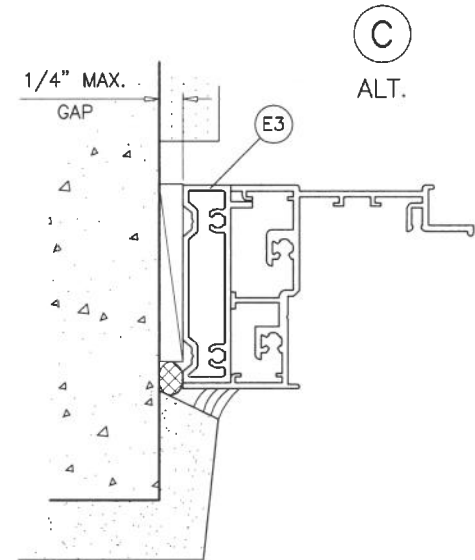
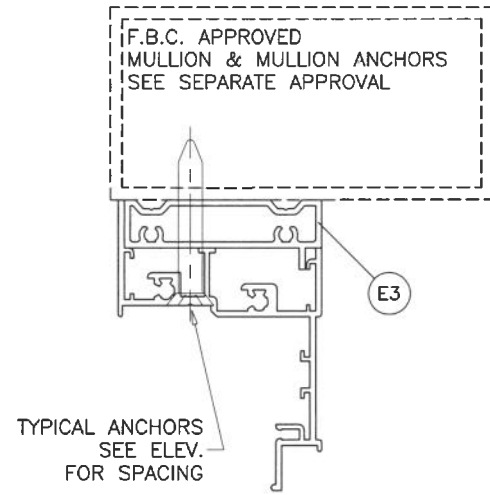
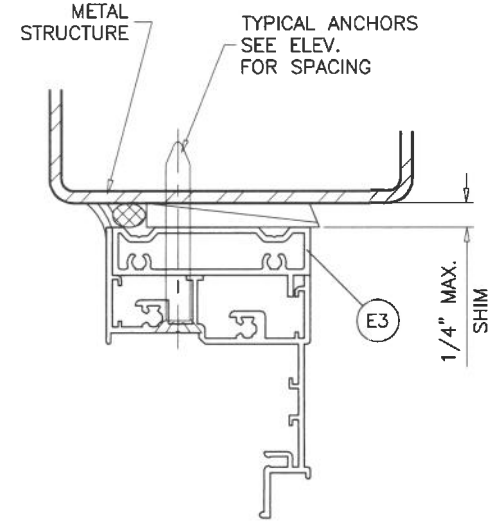
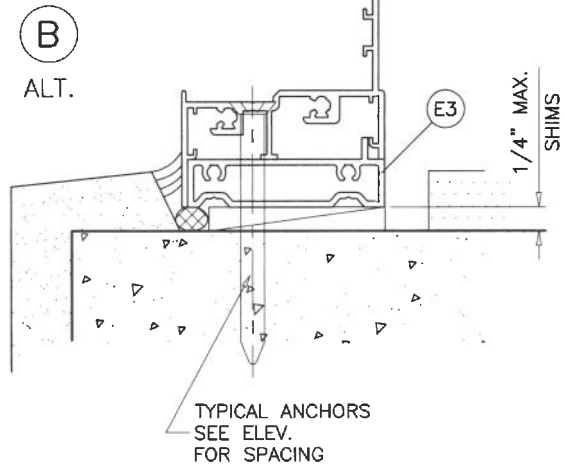
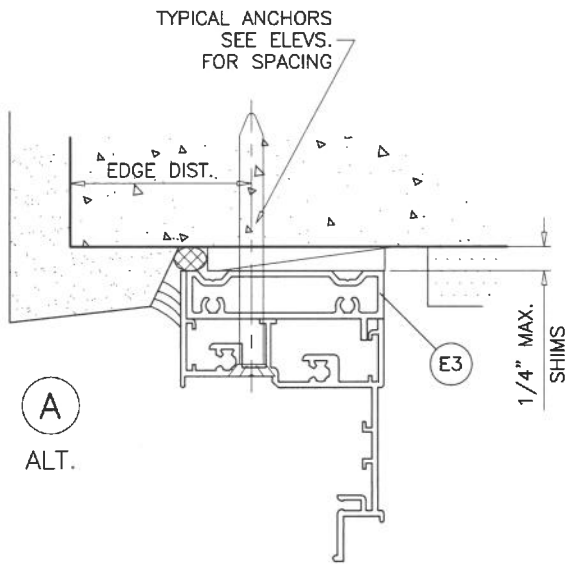
dr. by: TARIQ

chk. by:

drawing no.

W16-80

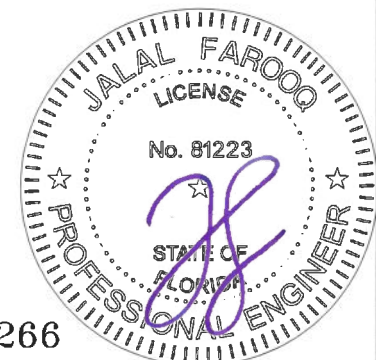
sheet 3 of 6



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

Sealed: 7/17/2026

FL #22266



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revisions:

no	date	by	description

date: 04-12-17
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W16-80
sheet 4 of 6

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-5001	4	FRAME	6063-T6	-
E2	ES-5002	4	VENT	6063-T6	-
E3	ES-5017	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	-
E4	ES-1017	4	GLAZING BEAD (LAM. GLASS)	6063-T6	-
E4A	ES1103	4	GLAZING BEAD (LAM. GLASS)	6063-T6	-
E4B	ES1008	4	GLAZING BEAD (LAM. GLASS)	6063-T6	-
E4C	-	4	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T5	-
M1	#10 X 1"	2/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	PH SMS
M2	#10 X 1-1/4"	1/ CORNER	VENT ASSEMBLY SCREWS	ST. STEEL	PH SMS
M3	#10 X 1-1/2"	1/ CORNER	VENT ASSEMBLY SCREWS	ST. STEEL	PH SMS
M4	#8 X 1/2"	AS REQD.	SNUBBER FASTENERS	ST. STEEL	PH SMS
M4A	#10 X 1/2"	6/ HINGE	HINGE INSTALLATION SCREWS	ST. STEEL	PH SMS
M4B	#10 X 1/2"	2/ KEEPER	KEEPER INSTALLATION SCREWS	ST. STEEL	PH SMS
M5	#8 X 1/2"	-	CLAP WASHER FASTENERS	ST. STEEL	PH MS
M6	#6 X 1/2"	-	SCREEN HOLDER FASTENERS	ST. STEEL	FH SMS
M7	#8 X 1/2"	8	OPERATOR FASTENERS	ST. STEEL	FH SMS
M8	#10 X 1-1/4"	2	BAR GUIDE FASTENERS	ST. STEEL	FH SMS
M8B	#8 X 1/2"	8	PLATE FASTENERS	ST. STEEL	FH SMS
M9	WS-100E-S-5004	AS REQD.	SNUBBER	DIE CAST ALUM	-
M10	PJS43-SS	AS REQD.	CORNER KEY	ST. STEEL	-
M11	CL01-0475	-	MULTI POINT LOCKING HANDLE	DIE CAST ZINC	-
M12	CL02-2045	-	SNAP ON COVER	DIE CAST ZINC	-
M13	CL02-1020	-	SNAP ON HANDLE	PLASTIC	-
M14	CL01-4001	-	CLAMP WASHER	ST. STEEL	-
M15	CL02-0021	-	LOCK BAR	ST. STEEL	-
M16	CL02-2036	-	LOCK KEEPER	ACETAL	-
M17	CL02-2027	3/ JAMB	BAR GUIDE, AT 8", 12-3/4" & 20-1/4" FROM BOTTOM	ACETAL	-
M18	C011-0605	-	COVER OPERATOR HANDLE	-	-
M19	AMC-320	2	4 BAR HINGE	ST. STEEL	AMC MANUFACTURING
M20	C011-0651-000	-	OPERATOR SPACER	-	-
M21	C011-2202	-	OPERATOR SPACER	-	-
M22	C011-2322	-	OPERATOR BRACKET	-	-
M23	C011-0451-085	-	AWNING OPERATOR	-	-
M24	E206	AS REQD.	OUTER W'STRIPPING	EPDM	DUROMETER 60±5 SHORE A
M24B	27-308	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
M25	ES5005	AS REQD.	INNER W'STRIPPING	EPDM	DUROMETER 60±5 SHORE A
M26	ES-5008	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
M26A	27-425	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 60±5 SHORE A
M26B	ES1010	AS REQD.	GLAZING WEDGE	SOFT PVC	DUROMETER 65±5 SHORE A
M26C	5008A	AS REQD.	GLAZING WEDGE	SILICONE	DUROMETER 65±5 SHORE A
M28	ES-4520-B02	2/ LITE	SETTING BLOCKS (LAM. GLASS), AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M28A	-	2/ LITE	SETTING BLOCKS (INSUL. LAM. GLASS), AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M33	C011-0510	2	BRACKET	304 ST. STEEL	-
M34	CL01-0475	2	LOCK	ZINC ALLOY	DIE CAST
M35	CL02-2045-XXX	2	SNAP ON COVER	ZINC ALLOY	DIE CAST
M36	CL02-1020-XXX	2	SNAP ON HANDLE	ALUMINUM	DIE CAST
M37	CL02-0025	2	LOCK BAR	ST. STEEL	-
M38	CL02-2082-00B	2	LOCK KEEPER	ACETAL	-
M39	CL02-2077-00B	2	BAR GUIDE	ACETAL	-
M40	-	8/ LITE	TAPE SPACER (1/4" X 1/2")	FOAM	AT 6" FROM GLASS ENDS

SEALANTS:

ALL FRAME AND VENT CORNERS AND INSTALLATION SCREWS SEALED WITH CLEAR/ALUMINUM COLORED SEALANT.

LOCKS: FOR WINDOWS UPTO 48" WIDTHS

SURFACE MOUNT METALLIC THREE POINT LOCK SYSTEM WITH ACTIVATING LEVER TYPE CAM LOCKS LOCATED AT 10" FROM BOTTOM AT FRAME JAMBS FASTENED WITH (2) #8-32 X 1/2" PH SMS

SURFACE MOUNT NYLON KEEPERS LOCATED AT 5", 16" AND 22-1/2" FROM BOTTOM AT VENT JAMB RAILS EACH FASTENED WITH (2) #8 X 1/2" FH SMS

LOCKS: FOR WINDOWS ABOVE 48" WIDTHS

SURFACE MOUNT METALLIC CAM LOCKS LOCATED AT FRAME SILL AT 9-1/2" FROM EACH JAMB EACH FASTENED WITH (2) #8-32 X 1/2" FH SMS

SURFACE MOUNT NYLON KEEPERS FACING LOCKS AT VENT BOTTOM RAIL EACH FASTENED WITH (2) #8 X 1/2" PH SMS

HINGES:

SURFACE MOUNT METALLIC 4 BAR HINGES BY 'ADVANTAGE MFG. CORP.' LOCATED AT WINDOW FRAME UPPER CORNERS FASTENED TO FRAME WITH (3) #10 X 1/2" PH SMS FASTENED TO VENT WITH (4) #10 X 1/2" PH SMS

ANTI BLOW OUT CLIPS:

1-1/2" LONG ALUMINUM ANTI BLOW OUT CLIPS AT FRAME HEAD AND VENT TOP RAIL
(2) FOR WINDOWS UPTO 48" WIDTHS LOCATED AT 11-1/2" FROM EACH END
(3) FOR WINDOWS ABOVE 48" WIDTHS LOCATED AT 18" FROM EACH END AND AT MIDSPAN FASTENED WITH (2) #8 X 1/2" FPH SMS

OPERATOR:

SURFACE MOUNT METALLIC ROTO OPERATOR LOCATED AT MIDSPAN OF FRAME SILL FASTENED WITH (6) #8 X 3/4" FH SMS

SURFACE MOUNT 2-3/8" LONG NYLON OPERATOR TRACK LOCATED AT MIDSPAN OF BOTTOM RAIL FASTENED WITH (2) #8 X 1/2" FH SMS

Sealed: 7/17/2026



FL #22266

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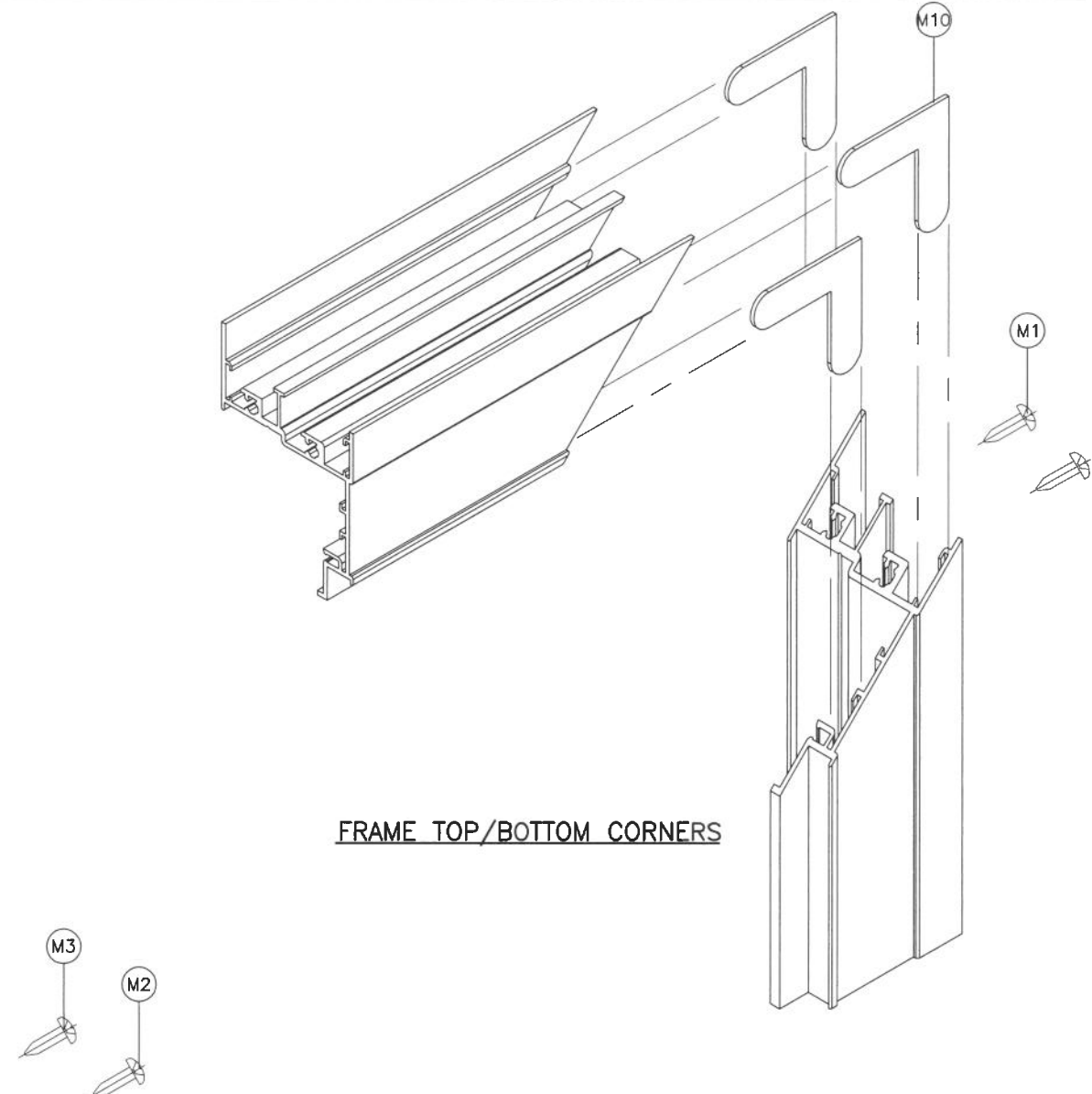
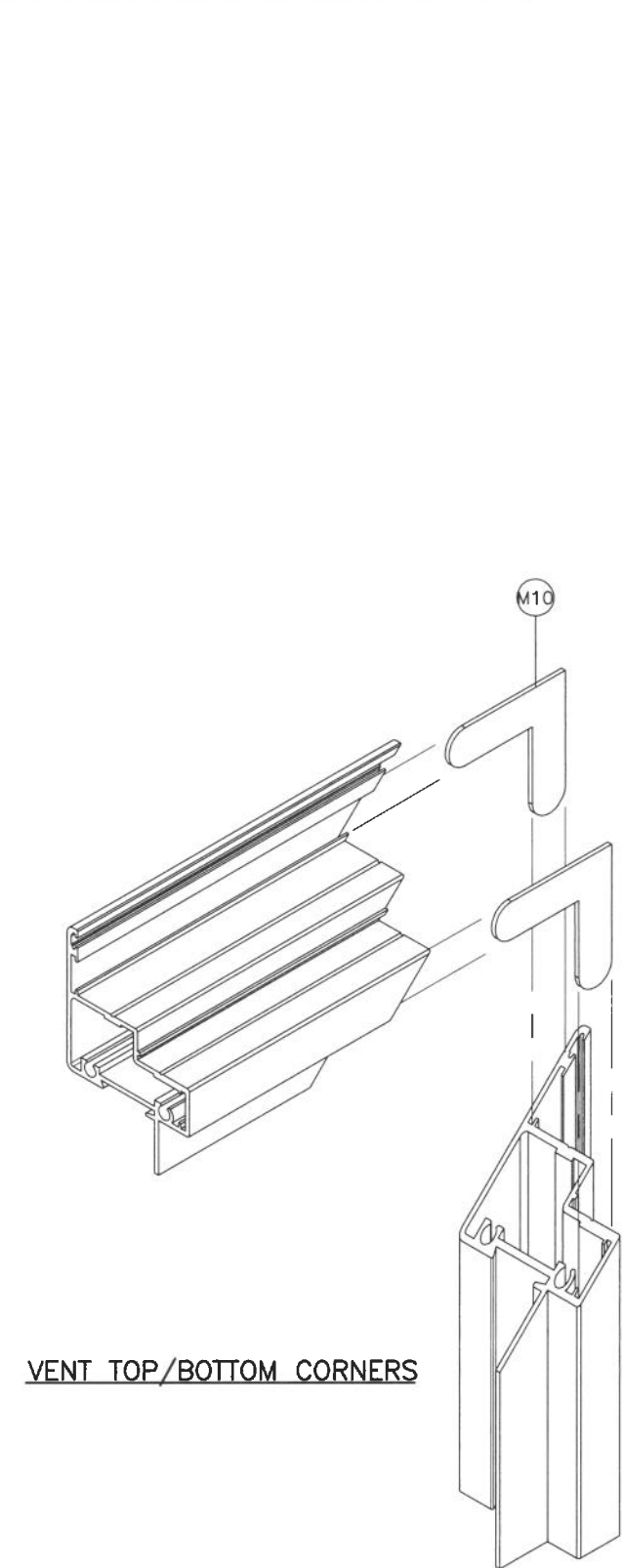
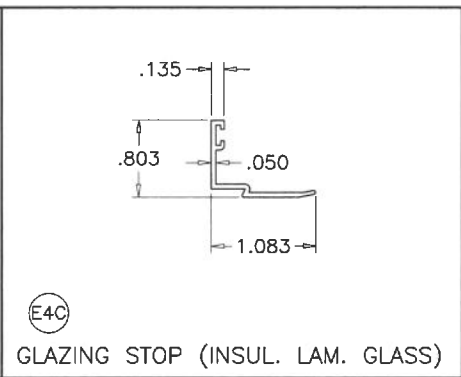
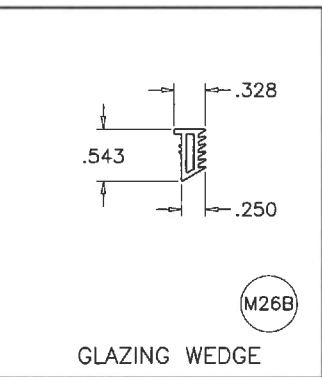
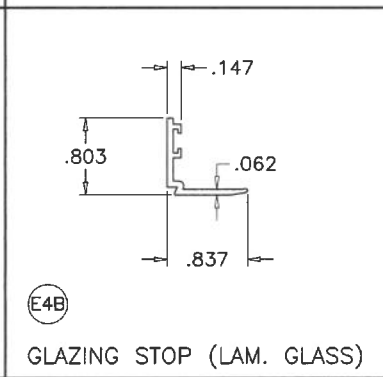
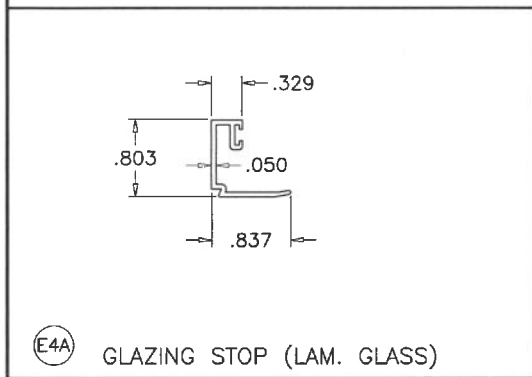
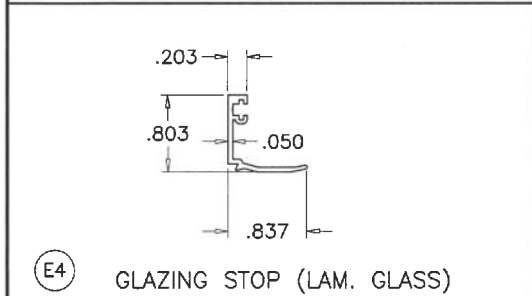
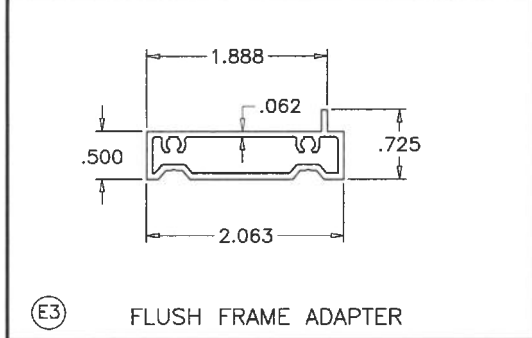
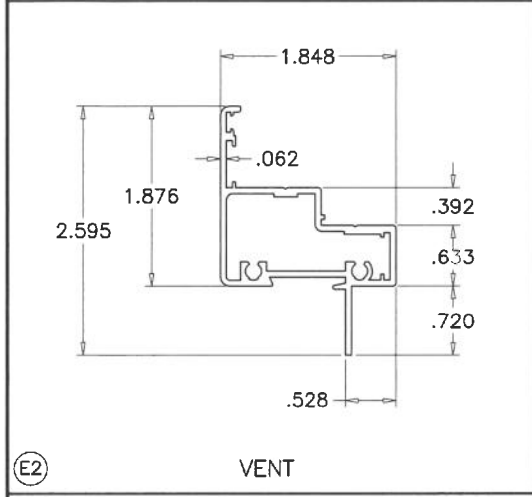
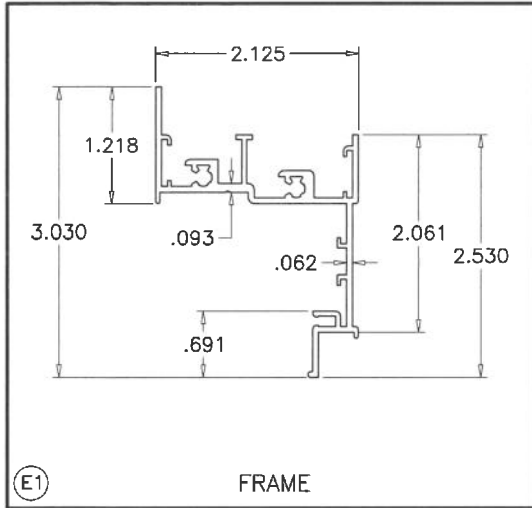
AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33173
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COMP-ANL\W16-80ES

ES-5500 PROJECT-OUT ALUMINUM WDW. (L.M.I.)

E.S. WINDOWS, LLC
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MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	
no	date
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date:	04-12-17
scale:	1/2" = 1"
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sheet 5 of 6	



Sealed: 7/17/2026



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