

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

ES-P252
THERMAL ALUMINUM FIXED WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER
CHARTS SHOWN ON SHEET 2.

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.

WINDOWS COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

Sealed: 7/19/2023

FL #26359

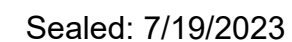
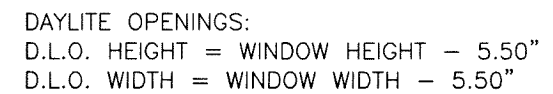
A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND
INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION
PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED
ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF
ALTERED BY ANY MEANS.
C- SITE 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.



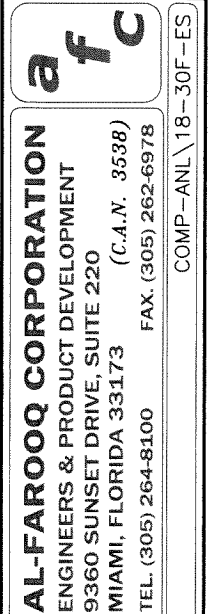
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no	date
A	10.15.20
B	02.03.21
C	03.31.21
D	04.28.23
E	07.07.23
description	
UPDATED TO 2020 FBC	
LAM. GLASS OPTIONS ADDED	
NAIL FIN ADDED	
NAIL FIN REV.	
UPDATED TO 2023 FBC	
date:	02-14-18
scale:	3/8"=1'-0"
dr. by:	TARIQ
chk. by:	
drawing no.	18-30F
sheet	1 of 6

ES-P252 THERMAL ALUMINUM FIXED WDW. (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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
COMP-ANL\18-30F-ES



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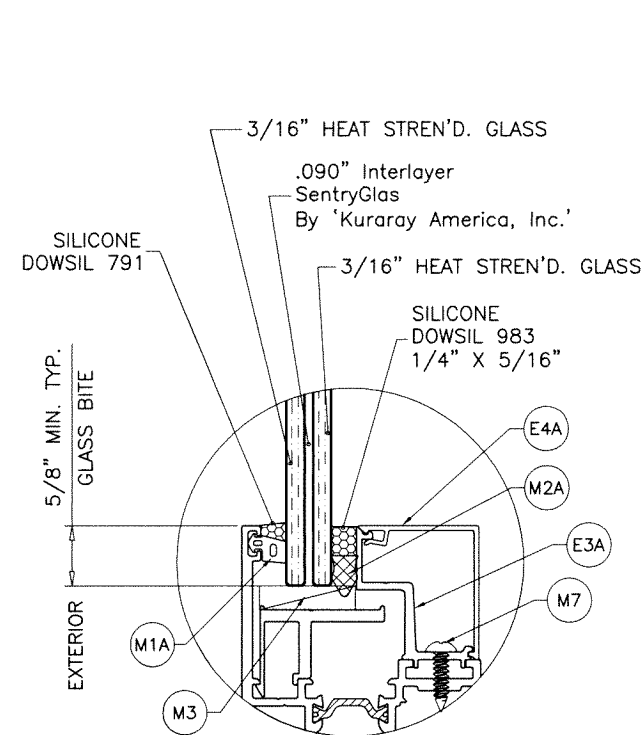
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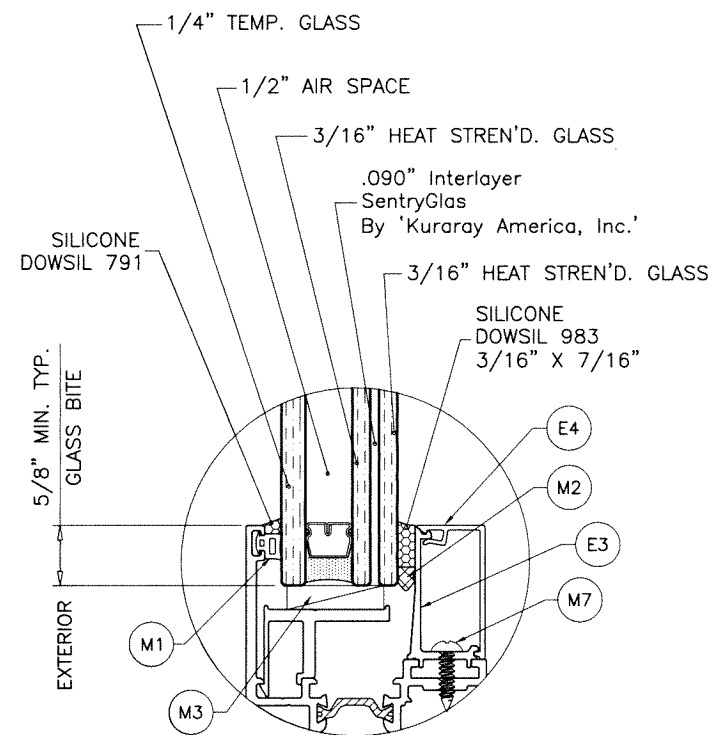
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chk. by:

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18-30F

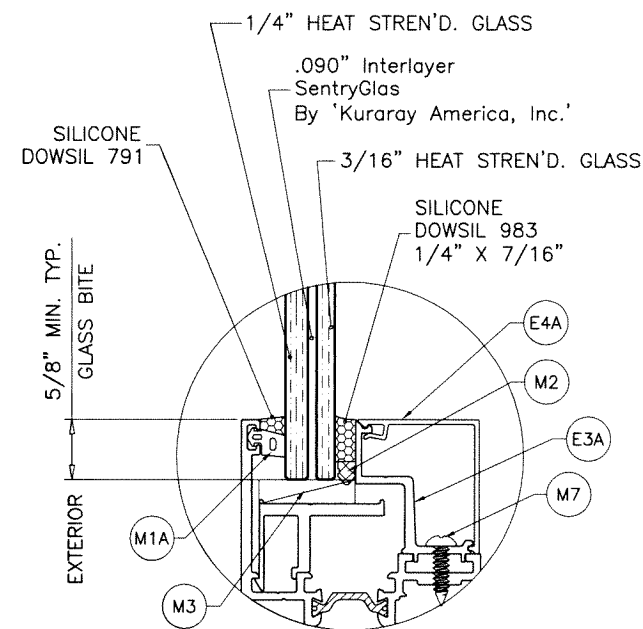
sheet 1.1 of 6



GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS



GLASS TYPE 'Ai'
1-3/16" OVERALL INSUL. LAM. GLASS



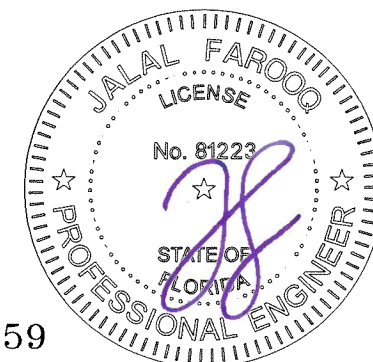
GLASS TYPE 'B'
1/2" OVERALL LAM. GLASS

GLAZING OPTIONS

1/2" 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: 7/19/2023

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revisions:		no	date	by	description

date: 02-14-18
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 dr. by: TARIQ
 chk. by:

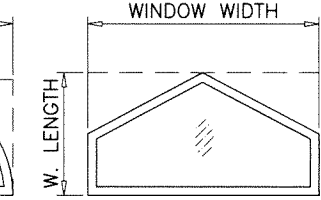
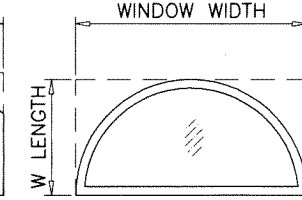
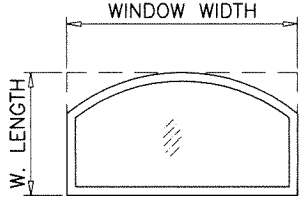
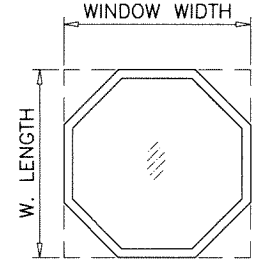
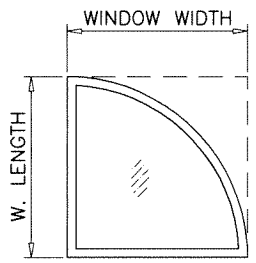
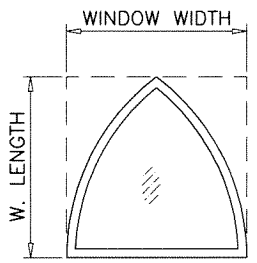
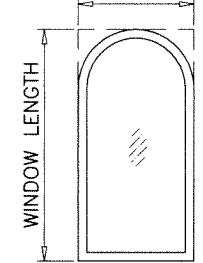
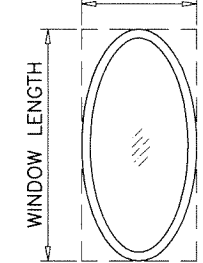
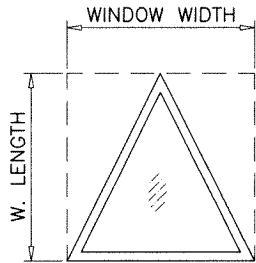
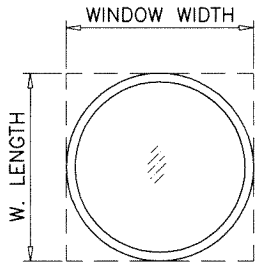
drawing no.
18-30F
 sheet 1,2 of 6

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
30"	60"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	150.0	110.0	150.0
48"		110.0	137.5	110.0	137.5
54"		110.0	122.2	110.0	122.2
60"		110.0	110.0	110.0	110.0
66"		110.0	110.0	110.0	110.0
72"		110.0	110.0	110.0	110.0
78"		110.0	110.0	110.0	110.0
84"		110.0	110.0	110.0	110.0
30"	66"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	150.0	110.0	150.0
48"		110.0	137.5	110.0	137.5
54"		110.0	122.2	110.0	122.2
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0
78"		100.0	100.0	100.0	100.0
84"		100.0	100.0	100.0	100.0
30"	72"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	150.0	110.0	150.0
48"		110.0	137.5	110.0	137.5
54"		110.0	122.2	110.0	122.2
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		91.7	91.7	91.7	91.7
78"		91.7	91.7	91.7	91.7
84"		91.7	91.7	91.7	91.7
30"	78"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	150.0	110.0	150.0
48"		110.0	135.0	110.0	135.0
54"		110.0	122.2	110.0	122.2
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		91.7	91.7	91.7	91.7
78"		84.6	84.6	84.6	84.6
84"		84.6	84.6	84.6	84.6
30"	84"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	135.0	110.0	135.0
48"		110.0	135.0	110.0	135.0
54"		110.0	122.2	110.0	122.2
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		91.7	91.7	91.7	91.7
78"		84.6	84.6	84.6	84.6
84"		78.6	78.6	78.6	78.6

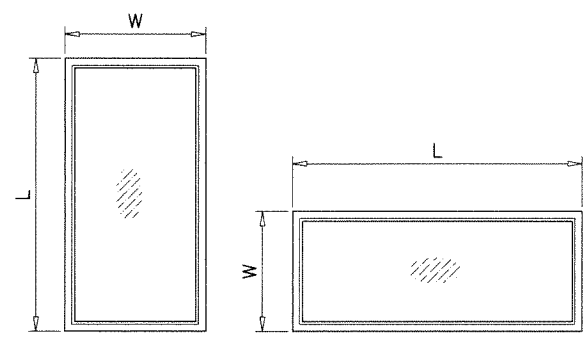
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
30"	90"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	135.0	110.0	135.0
48"		110.0	135.0	110.0	135.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		91.7	91.7	91.7	91.7
78"		84.6	84.6	84.6	84.6
84"		67.9	67.9	67.9	67.9
30"	96"	110.0	150.0	110.0	150.0
36"		110.0	150.0	110.0	150.0
42"		110.0	135.0	110.0	135.0
48"		110.0	135.0	110.0	135.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		91.7	91.7	91.7	91.7
78"		73.1	73.1	73.1	73.1
84"		67.9	67.9	67.9	67.9
30"	102"	110.0	150.0	110.0	150.0
36"		110.0	135.0	110.0	135.0
42"		110.0	135.0	110.0	135.0
48"		110.0	110.0	110.0	110.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		79.2	79.2	79.2	79.2
78"		73.1	73.1	73.1	73.1
84"		67.9	67.9	67.9	67.9
30"	108"	110.0	150.0	110.0	150.0
36"		110.0	135.0	110.0	135.0
42"		110.0	135.0	110.0	135.0
48"		110.0	110.0	110.0	110.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		100.0	100.0	100.0	100.0
72"		79.2	79.2	79.2	79.2
78"		73.1	73.1	73.1	73.1
30"	114"	110.0	150.0	110.0	150.0
36"		110.0	135.0	110.0	135.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		86.4	86.4	86.4	86.4
72"		79.2	79.2	79.2	79.2
30"	120"	110.0	135.0	110.0	135.0
36"		110.0	135.0	110.0	135.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"		110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0
66"		86.4	86.4	86.4	86.4
72"		79.2	79.2	79.2	79.2

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
30"	126"	110.0	135.0	110.0	135.0
36"		110.0	135.0	110.0	135.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"		110.0	110.0	110.0	110.0
60"		95.0	95.0	95.0	95.0
66"		86.4	86.4	86.4	86.4
30"	132"	110.0	135.0	110.0	135.0
36"		110.0	110.0	110.0	110.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"		110.0	110.0	110.0	110.0
60"		95.0	95.0	95.0	95.0
30"	138"	110.0	135.0	110.0	135.0
36"		110.0	110.0	110.0	110.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"		95.0	95.0	95.0	103.9
60"		95.0	95.0	95.0	95.0
30"	144"	110.0	135.0	110.0	135.0
36"		110.0	110.0	110.0	110.0
42"		110.0	110.0	110.0	110.0
48"		110.0	110.0	110.0	110.0
54"		95.0	95.0	95.0	102.8
60"		95.0	95.0	95.0	95.0

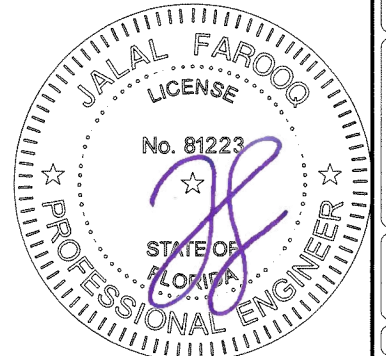


ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE
VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS
SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.
LIMIT MAX. LOADS FOR ALTERNATE SHAPES TO ±95.0 PSF



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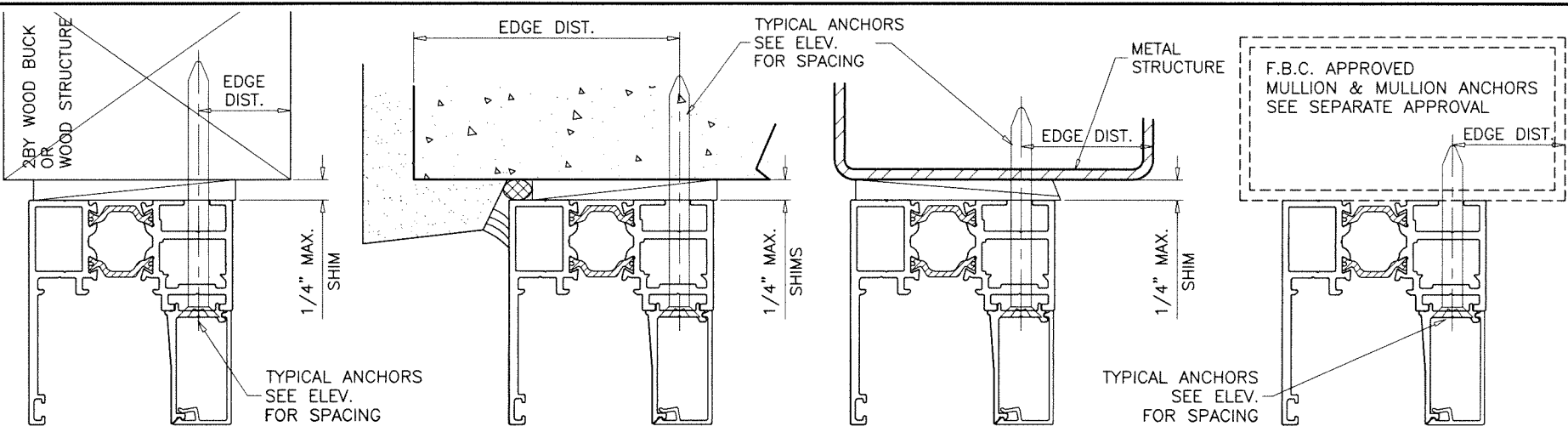
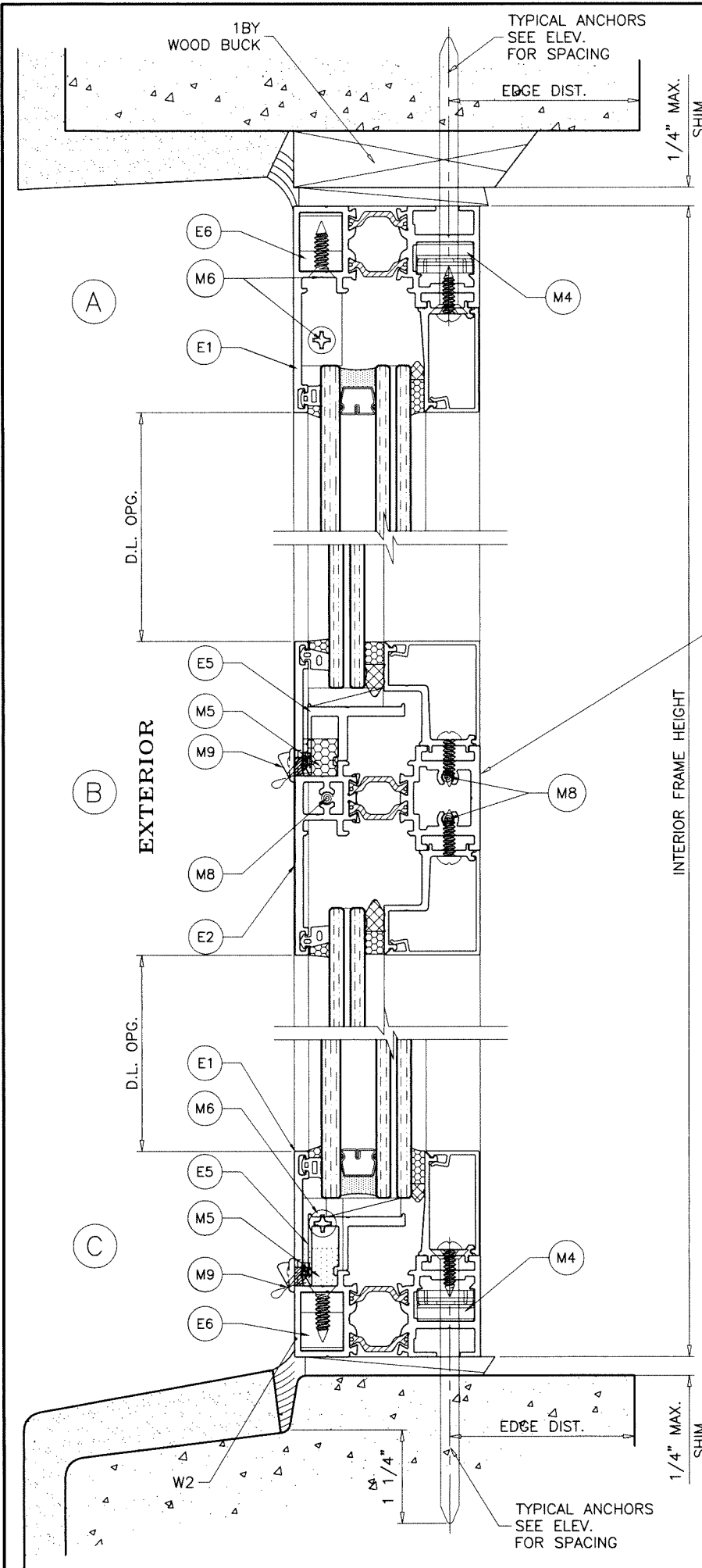
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revisions:
no date by description

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scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
18-30F
sheet 2 of 6



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

LIMIT MAX. DESIGN LOADS FOR WINDOWS WITH IMPOST AS FOLLOWS

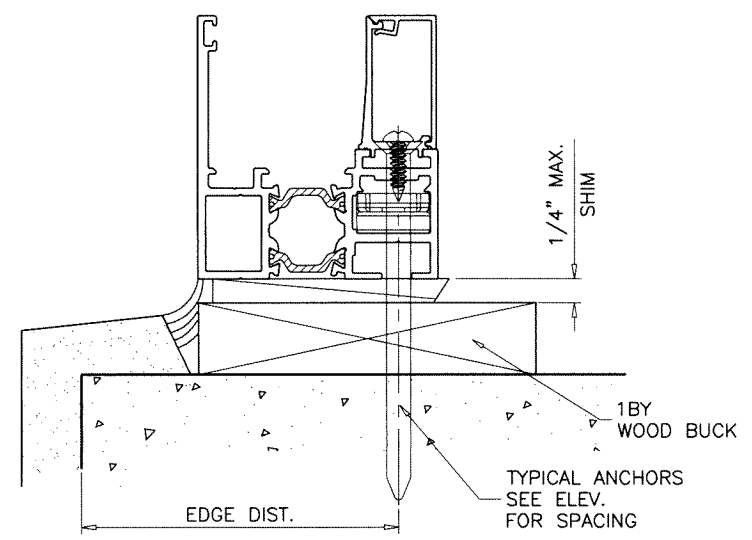
WINDOW WIDTH MAX.	LOAD CAPACITY - PSF
54"	90.0
60"	75.0

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
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 BLOCKS
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

#14 SMS OR SELF-DRILLING SCREWS (GRADE 2 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)

CRITICAL EDGE DISTANCE
 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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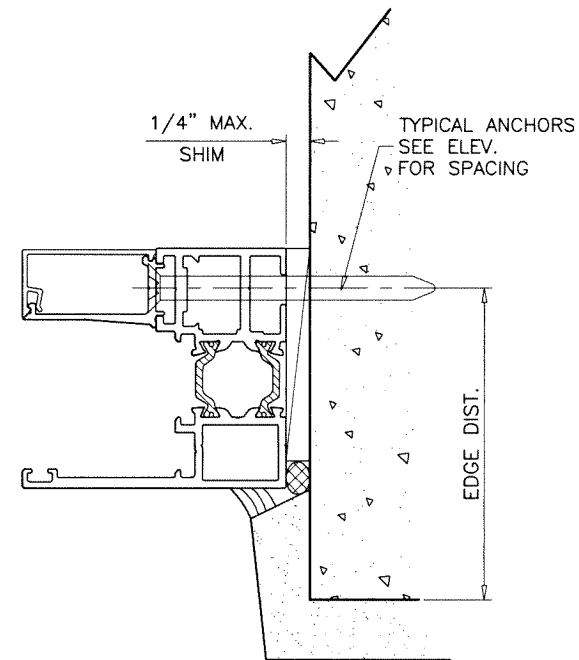
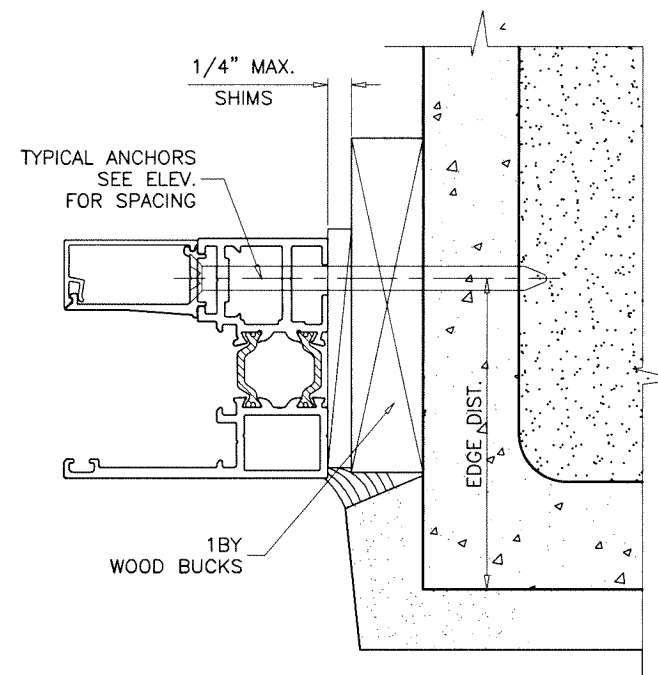
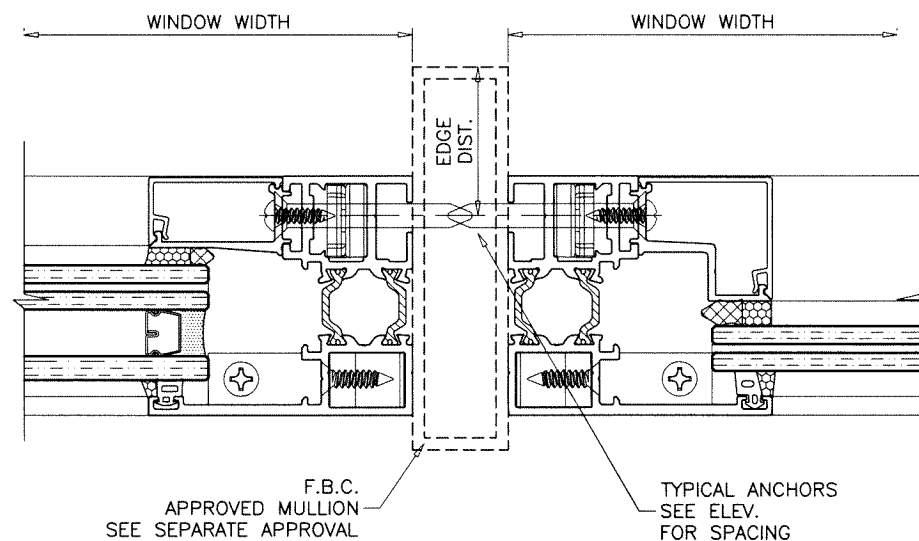
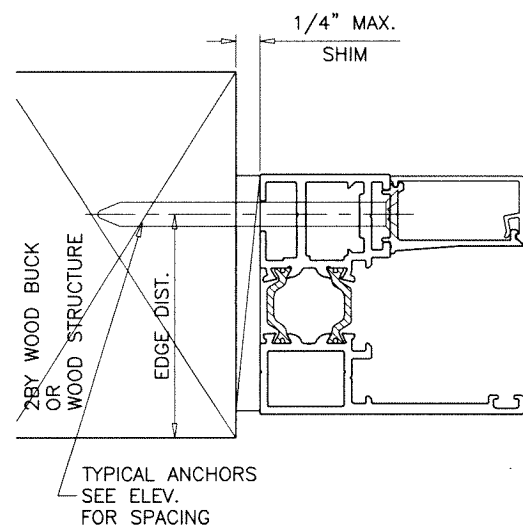
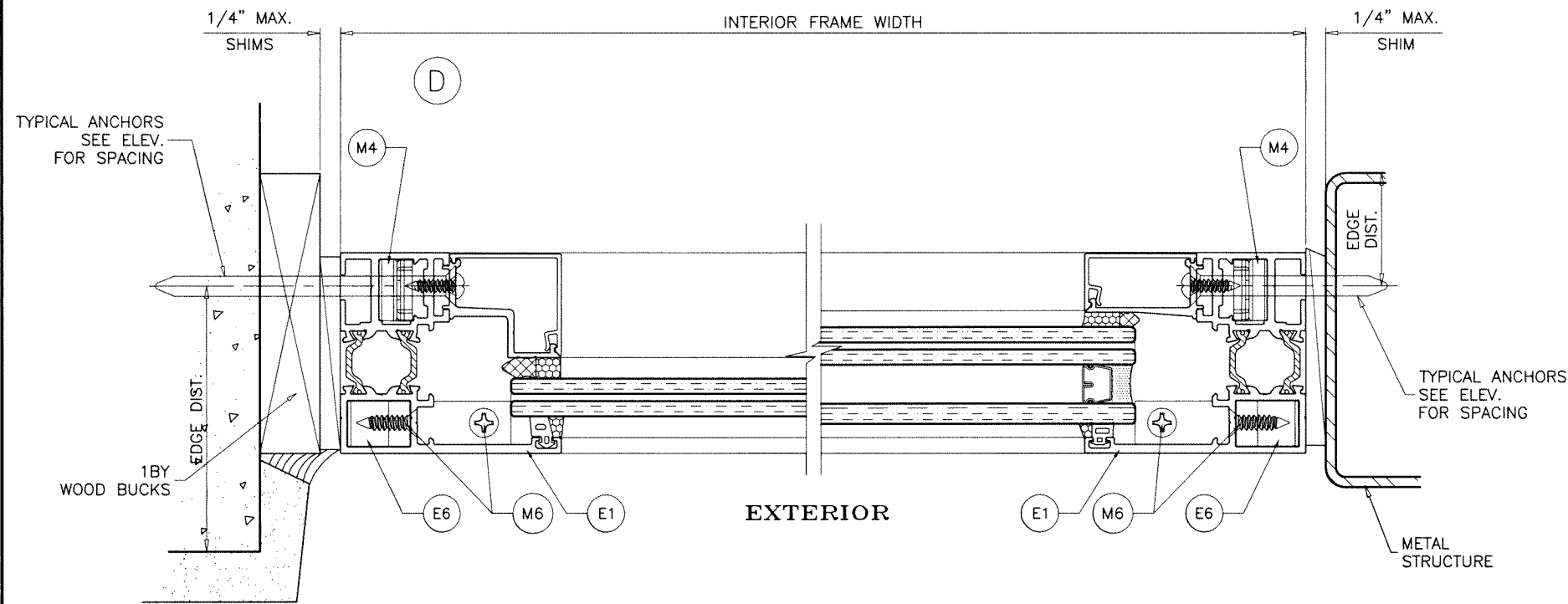
ES-P252 THERMAL ALUMINUM FIXED WDW. (L.M.I.)

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

revisions:		date:	by:	description:
no.	date	by	description	

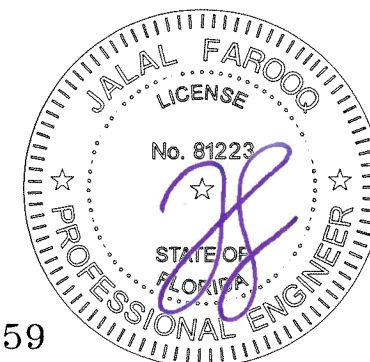
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 dr. by: TARIQ
 ch. by:

drawing no.
18-30F
 sheet 3 of 6



Sealed: 7/19/2023

FL #26359



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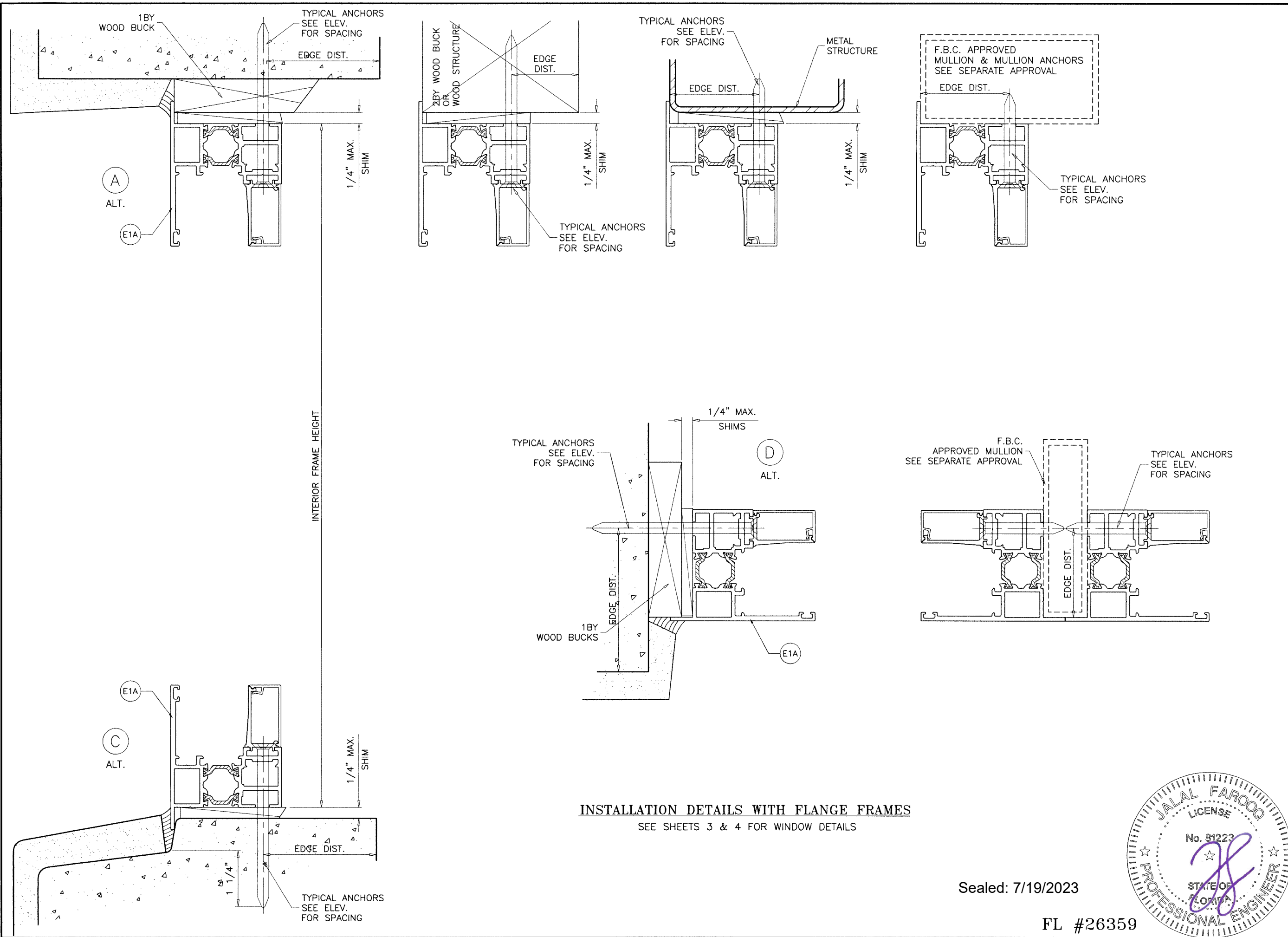
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

revisions:
no date by description

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chk. by:

drawing no.
18-30F
sheet 4 of 6

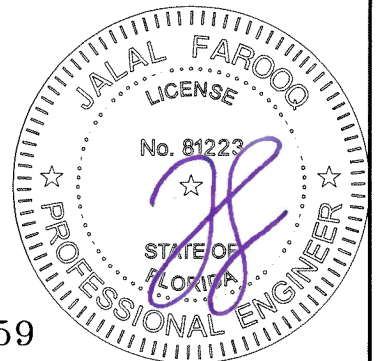
COMP-ANL\18-30F-ES



INSTALLATION DETAILS WITH FLANGE FRAMES
SEE SHEETS 3 & 4 FOR WINDOW DETAILS

Sealed: 7/19/2023

FL #26359



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9360 SUNSET DRIVE, SUITE 220
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COMP-ANL \ 18-30F-ES

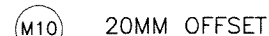
ES-P252 THERMAL ALUMINUM FIXED WDW. (L.M.I.)

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revisions:		by description	
no	date		

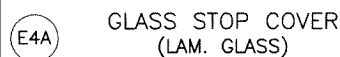
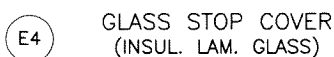
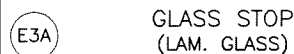
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chk. by:

drawing no.
18-30F
sheet 5 of 6

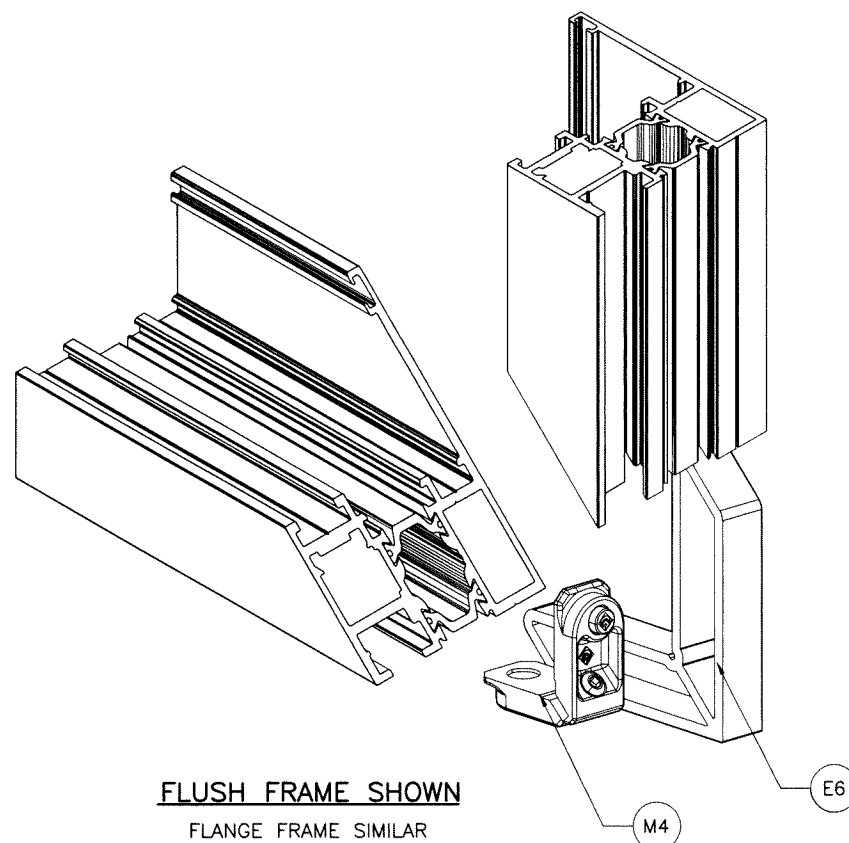


TECATHERM® 66 GF INSULBARS
SCALE 1:1

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



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-P252-501	4	FLUSH FRAME HEAD/SILL/JAMB	6063-T6	-
E1A	-	4	FLANGE FRAME HEAD/SILL/JAMB	6063-T6	-
E2	ES-P251-513	AS REQD.	IMPOST	6063-T6	-
E3	ES-P252-005	4	GLASS STOP (INSUL. LAM. GLASS)	6063-T5	-
E3A	ES-P252-031	4	GLASS STOP (LAM. GLASS)	6063-T5	-
E4	ES-P252-006	1	GLASS STOP COVER (INSUL. LAM. GLASS)	6063-T6	-
E4A	ES-P252-032	1	GLASS STOP COVER (LAM. GLASS)	6063-T6	-
E5	ES-P251-007	2/ LITE	SETTING CHAIR, 4" LONG	6063-T5	-
E6	ES-P251-018	AS REQD.	CORNER KEY	6005-T5	-
E7	TBA-002	AS REQD.	NAIL FIN	6063-T6	-
M1	ES-P251-G02	AS REQD.	GLAZING GASKET (EXTERIOR)	EPDM	TREMCO TR-19619SW, DUROMETER 70±5 SHORE A
M1A	ES-UN625-G02	AS REQD.	GLAZING GASKET (EXTERIOR)	SILICONE	DUROMETER 70±5 SHORE A
M2	ES-SD451-G04	AS REQD.	GLAZING GASKET (INTERIOR)	EPDM	TREMCO TR-3234E, DUROMETER 70±5 SHORE A
M2A	ES-H340-G02	AS REQD.	GLAZING GASKET (INTERIOR)	SILICONE	DUROMETER 60±5 SHORE A
M3	ES-21-B04A	2/ LITE	SETTING BLOCK, 4" LONG, AT 1/4 POINTS	EPDM	SOLUCIONESENCAUCHO, DUROMETER 80±5 SHORE A
M4	0337	1/ CORNER	CORNER JOINT	CAST ALUMINUM	MASTER
M5	WPSA-N1	-	3/4" X 3/4" X 2" RETICULATED FOAM 30PPI	-	-
M6	#10 X 3/4"	AS REQD.	ANGLE FASTENERS	ST. STEEL	FH SMS
M7	#8 X 5/8"	AS REQD.	GLASS STOP FASTENERS	ST. STEEL	PH SMS
M8	#10 X 1-1/4"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	PH SMS
M9	WA2L	2	WEEP COVER	PLASTIC	-
M10	2479	AS REQD.	INSULBAR 20MM OFFSET	POLYAMIDE	ENSINGER
M11	791	-	GLAZING COMPOUND	SILICONE	DOWSIL
M12	#12 X 3/4"	-	NAIL FIN FASTENERS AT 3" FROM ENDS & 12" O.C.	ST. STEEL	FH SMS



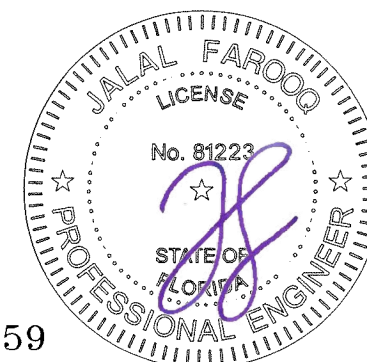
FLUSH FRAME SHOWN
FLANGE FRAME SIMILAR

SEALANT:

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

Sealed: 7/19/2023

FL #26359



ES-P252 THERMAL ALUMINUM FIXED WDW (L.M.I.)

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AL-FAROOQ CORPORATION

ALFA ROMEO CORPORATION
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9360 SUNSET DRIVE SUITE 220

9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)

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FAA. (JUS) 202-0918

COMP-ANL\18-30F-ES