

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLES ON SHEETS 2 & 3 FOR THE GLASS TYPE AND REINFORCING TO USE.
- STEP 3** USING CHARTS ON SHEET 6 FOR HEAD AND SILL ANCHORS SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** USING UNANCHORED FREE STANDING JAMB AND REINFORCING OPTIONS FROM SHEET 13, SELECT THE DESIGN LOAD MORE THAN THE LOAD IN STEP 1, 2 & 3.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

SERIES ES-6600 ULTRA
ALUMINUM SLIDING GLASS DOOR

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.

LAMINATED GLASS
INSUL. LAM. GLASS
SMALL MISSILE IMPACT

Sealed: 9/22/2026

FL #23006

- 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.



revisions:		no	date	by	description
A	12.07.20	A	12.07.20		UPDATED TO 2020 FBC
	04.16.21	B	04.16.21		GLAZING GASKET ADDED
	09.12.23	C	09.12.23		UPDATED TO 2023 FBC
	09.18.26	D	09.18.26		UPDATED TO 2026 FBC

date: 08-17-17	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
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drawing no.
W17-74

sheet 1 of 15

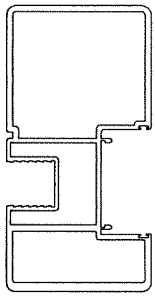
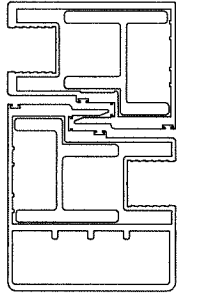
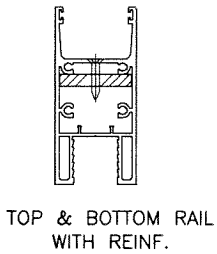
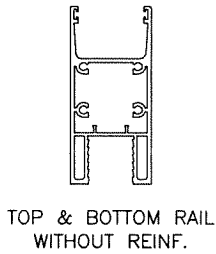
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SERIES ES-6600 ULTRA ALUM SLIDING DOOR (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

COMP-ANL\W17-74ESW

DESIGN LOAD CAPACITY - PSF							
ALL CONFIGURATIONS SHOWN ON SHEET 7							
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'A1'				GLASS TYPE 'A2'	
		TOP & BOTTOM RAIL WITHOUT REINF.		TOP & BOTTOM RAIL WITH REINF.		TOP & BOTTOM RAIL WITHOUT REINF.	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	126"	120.0	125.0	-	-	120.0	125.0
42		120.0	125.0	-	-	120.0	125.0
48		120.0	125.0	-	-	120.0	125.0
50		115.0	120.0	120.0	125.0	-	-
52		111.0	115.0	120.0	125.0	-	-
54		106.0	111.0	120.0	125.0	-	-
36	132"	120.0	125.0	-	-	-	-
42		120.0	125.0	-	-	-	-
48		120.0	125.0	-	-	-	-
50		115.0	120.0	120.0	125.0	-	-
52		111.0	115.0	120.0	125.0	-	-
36	138"	120.0	125.0	-	-	-	-
42		120.0	125.0	-	-	-	-
48		120.0	125.0	-	-	-	-
50		115.0	120.0	120.0	125.0	-	-
36	144"	120.0	125.0	-	-	-	-
42		120.0	125.0	-	-	-	-
48		120.0	125.0	-	-	-	-

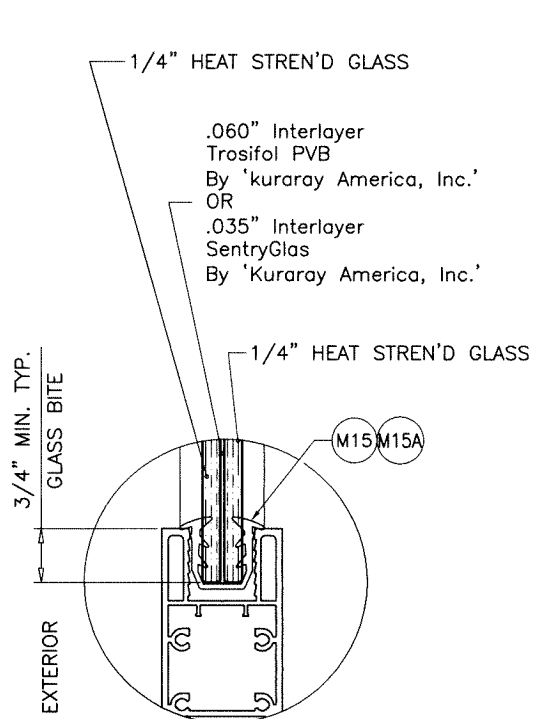
DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.



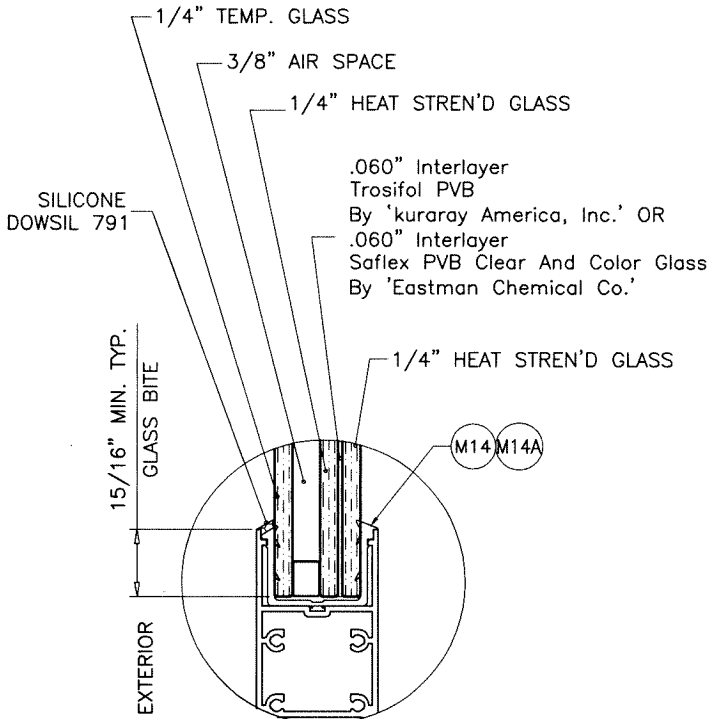
INTERLOCKS WITH REINF. ASTRAGAL W/O REINF.

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

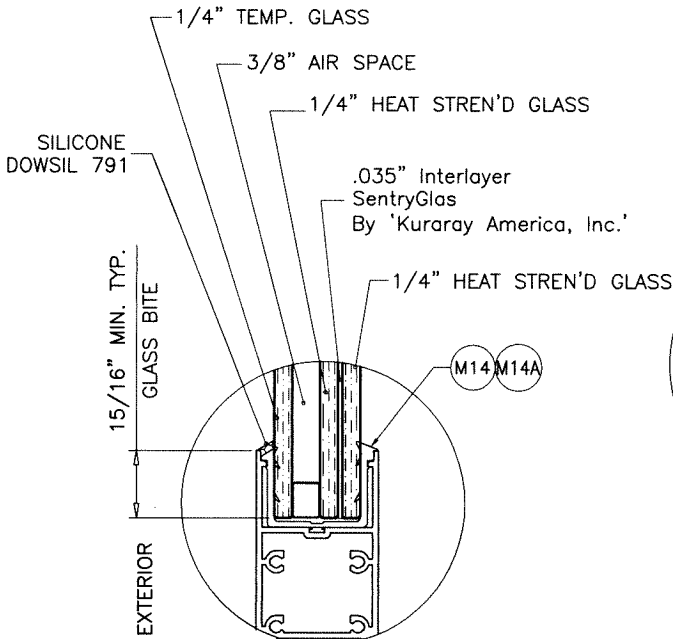
3/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000



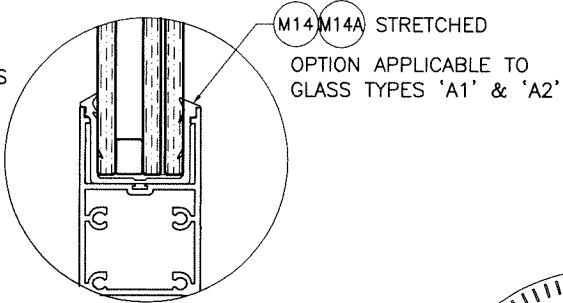
GLASS TYPE 'A'
9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'A1'
1-1/4" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'A2'
1-1/4" OVERALL INSUL. LAM. GLASS



Sealed: 9/22/2026

FL #23006



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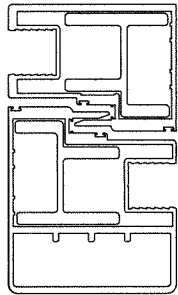
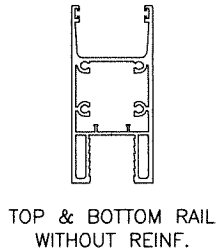
revisions:
no. date by description

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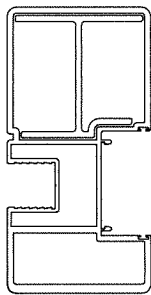
drawing no.
W17-74
sheet 2 of 15

DESIGN LOAD CAPACITY - PSF					
ALL CONFIGURATIONS SHOWN ON SHEET 7					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPE 'B'		GLASS TYPE 'C'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
51-1/4	126"	110.0	138.5	110.0	145.0
52		110.0	135.8	108.4	142.9
54		110.0	129.5	104.4	137.6
56		110.0	124.0	100.7	132.7
51-1/4	132"	110.0	134.6	110.0	145.0
52		110.0	132.0	108.4	142.9
54		110.0	125.6	104.4	137.6
51-1/4	138"	110.0	131.1	110.0	145.0
52		110.0	131.1	108.4	142.9
51-1/4	142"	110.0	131.3	110.0	145.0

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.



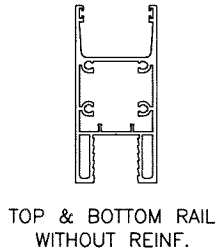
INTERLOCKS WITH REINF.



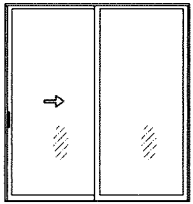
ASTRAGAL WITH REINF.

DESIGN LOAD CAPACITY - PSF			
'XO' OR 'OX' CONFIGURATIONS ONLY			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS 'A.1' & 'C'	
		EXT.(+)	INT.(-)
48	82	120.0	185.0
50		115.2	177.6
51-1/4		112.4	173.3
52		110.8	170.8
54		106.7	164.4
56		102.9	158.6
48	84	120.0	185.0
50		115.2	177.6
51-1/4		112.4	173.3
52		110.8	170.8
54		106.7	164.4
56		102.9	158.6
48	90	120.0	185.0
50		115.2	177.6
51-1/4		112.4	173.3
52		110.8	170.8
54		106.7	164.4
56		102.9	158.6
48	96	120.0	185.0
50		115.2	177.6
51-1/4		112.4	173.3
52		110.8	170.8
54		106.7	164.4
56		102.9	158.6
48	102	120.0	185.0
50		115.2	177.6
48	106-1/2	120.0	185.0

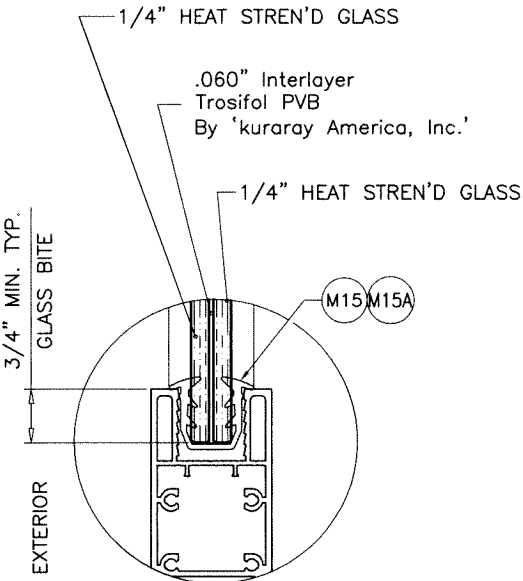
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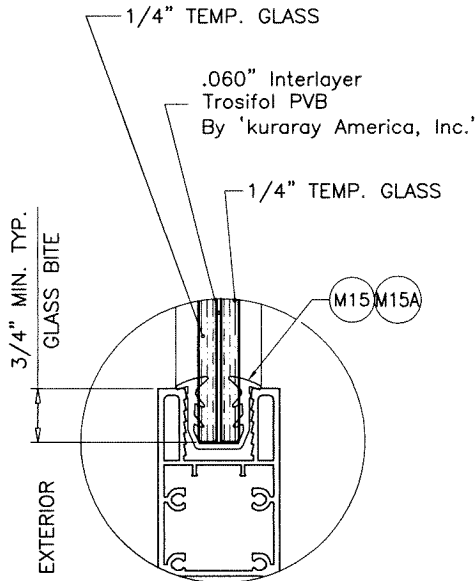
INTERLOCKS WITHOUT REINF.



'XO' OR 'OX' DOORS ONLY



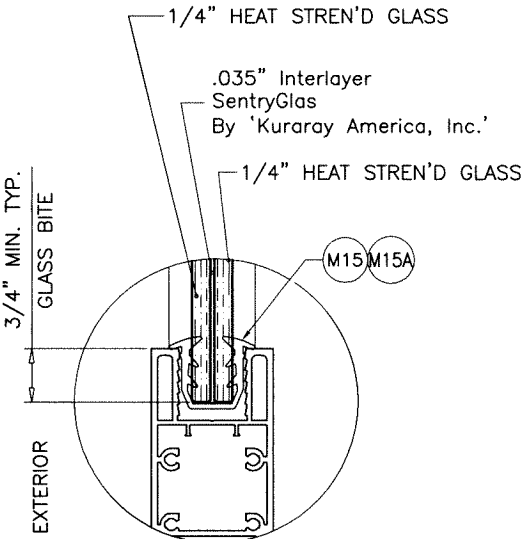
GLASS TYPE 'B'
9/16" OVERALL LAMINATED GLASS



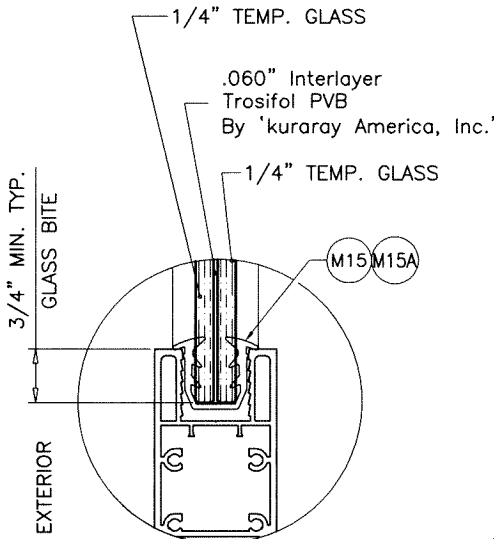
GLASS TYPE 'C'
9/16" OVERALL LAMINATED GLASS

GLAZING OPTIONS

NOTE:
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DECLARATORY STATEMENT DCA05-DEC-219



GLASS TYPE 'A.1'
9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'C'
9/16" OVERALL LAMINATED GLASS

GLAZING OPTIONS

Sealed: 9/22/2026

FL #23006



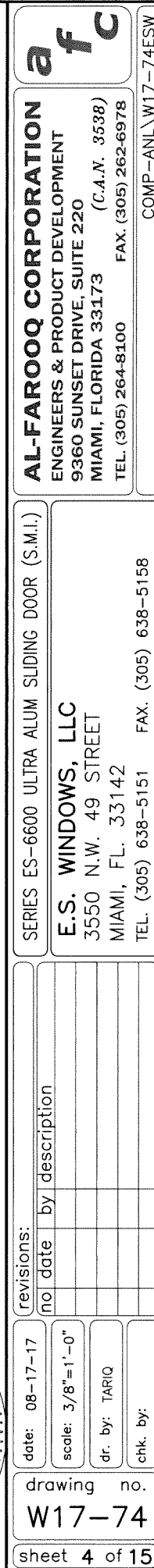
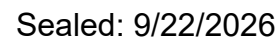
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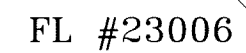
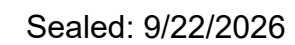
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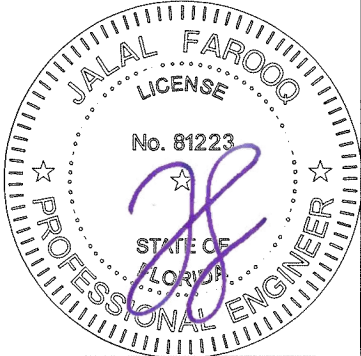




HEAD ANCHOR LOAD CAPACITY - PSF														
ANCHOR TYPE		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'								TYPE 'C'	
SHIM SPACE		1/4" SHIM	3/8" MAX. SHIM		1/4" SHIM	3/8" MAX. SHIM			1/2" MAX. SHIM				3/8" SHIM	
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	8 ANCHORS AT MTG. STYLE ENDS	8 ANCHORS AT MTG. STYLE ENDS	10 ANCHORS AT MTG. STYLE ENDS	8 ANCHORS AT MTG. STYLE ENDS	8 ANCHORS AT MTG. STYLE ENDS	10 ANCHORS AT MTG. STYLE ENDS	12 ANCHORS AT MTG. STYLE ENDS	8 ANCHORS AT MTG. STYLE ENDS	10 ANCHORS AT MTG. STYLE ENDS	12 ANCHORS AT MTG. STYLE ENDS	14 ANCHORS AT MTG. STYLE ENDS	8 ANCHORS AT MTG. STYLE ENDS	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
48	51-1/4	90	185.0	174.1	185.0	185.0	174.1	185.0	185.0	137.1	164.5	185.0	185.0	185.0
50		185.0	167.1	185.0	185.0	167.1	185.0	185.0	131.6	157.9	184.2	185.0	185.0	
51-1/4		185.0	163.0	185.0	185.0	163.0	185.0	185.0	128.4	154.0	179.7	185.0	185.0	
52		185.0	160.7	185.0	185.0	160.7	185.0	185.0	126.5	151.8	177.1	185.0	185.0	
54		185.0	154.7	185.0	185.0	154.7	185.0	185.0	121.8	146.2	170.6	185.0	185.0	
56		185.0	149.2	179.0	185.0	149.2	179.0	185.0	117.4	141.0	164.5	185.0	185.0	
48	51-1/4	96	185.0	163.2	185.0	185.0	163.2	185.0	185.0	128.5	154.2	179.9	185.0	185.0
50		185.0	156.7	185.0	185.0	156.7	185.0	185.0	123.4	148.0	172.7	185.0	185.0	
51-1/4		185.0	152.8	183.4	185.0	152.8	183.4	185.0	120.4	144.4	168.5	185.0	185.0	
52		185.0	150.6	180.8	185.0	150.6	180.8	185.0	118.6	142.3	166.1	185.0	185.0	
54		185.0	145.1	174.1	184.4	145.1	174.1	185.0	114.2	137.1	159.9	182.8	185.0	
56		183.8	139.9	167.9	177.9	139.9	167.9	185.0	110.1	132.2	154.2	176.2	185.0	
48	51-1/4	102	185.0	153.6	184.3	185.0	153.6	184.3	185.0	120.9	145.1	169.3	185.0	185.0
50		185.0	147.4	176.9	185.0	147.4	176.9	185.0	116.1	139.3	162.5	185.0	185.0	
51-1/4		185.0	143.8	172.6	182.9	143.8	172.6	185.0	113.3	135.9	158.6	181.2	185.0	
52		185.0	141.8	170.1	180.3	141.8	170.1	185.0	111.6	134.0	156.3	178.6	185.0	
54		179.3	136.5	163.8	173.6	136.5	163.8	185.0	107.5	129.0	150.5	172.0	185.0	
56		172.9	131.6	158.0	167.4	131.6	158.0	184.3	103.7	124.4	145.1	165.9	185.0	
48	51-1/4	106-1/2	185.0	147.1	176.5	185.0	147.1	176.5	185.0	115.8	139.0	162.2	185.0	185.0
50		185.0	141.2	169.5	179.6	141.2	169.5	185.0	111.2	133.4	155.7	177.9	185.0	
51-1/4		181.0	137.8	165.3	175.2	137.8	165.3	185.0	108.5	130.2	151.9	173.6	185.0	
52		178.4	135.8	162.9	172.7	135.8	162.9	185.0	106.9	128.3	149.7	171.1	185.0	
54		171.8	130.8	156.9	166.3	130.8	156.9	183.1	103.0	123.6	144.1	164.7	185.0	
56		165.6	126.1	151.3	160.3	126.1	151.3	176.5	99.3	119.1	139.0	158.9	179.4	
48	51-1/4	126	163.3	124.3	149.2	158.1	124.3	149.2	174.1	97.9	117.5	137.1	156.6	177.0
50		156.8	119.4	143.2	151.8	119.4	143.2	167.1	94.0	112.8	131.6	150.4	169.9	
51-1/4		153.0	116.4	139.7	148.1	116.4	139.7	163.0	91.7	110.0	128.4	146.7	165.7	
52		150.8	114.8	137.7	145.9	114.8	137.7	160.7	90.4	108.4	126.5	144.6	163.3	
54		145.2	110.5	132.6	140.5	110.5	132.6	154.7	87.0	104.4	121.8	139.2	157.3	
56		140.0	106.6	127.9	135.5	106.6	127.9	149.2	83.9	100.7	117.5	134.3	151.7	
36	51-1/4	132	185.0	158.2	185.0	185.0	158.2	185.0	185.0	124.6	149.5	174.4	185.0	185.0
42		178.2	135.6	162.8	172.5	135.6	162.8	185.0	106.8	128.2	149.5	170.9	185.0	
48		155.9	118.7	142.4	150.9	118.7	142.4	166.2	93.5	112.1	130.8	149.5	168.9	
50		149.7	113.9	136.7	144.9	113.9	136.7	159.5	89.7	107.7	125.6	143.5	162.2	
51-1/4		146.0	111.2	133.4	141.3	111.2	133.4	155.6	87.5	105.0	122.5	140.0	158.2	
52		143.9	109.6	131.5	139.3	109.6	131.5	153.4	86.3	103.5	120.8	138.0	155.9	
54		138.6	105.5	126.6	134.1	105.5	126.6	147.7	83.1	99.7	116.3	132.9	150.1	
36	51-1/4	138	185.0	151.4	181.6	185.0	151.4	181.6	185.0	119.2	143.0	166.9	185.0	185.0
42		170.4	129.7	155.7	165.0	129.7	155.7	181.6	102.2	122.6	143.0	163.5	184.6	
48		149.1	113.5	136.2	144.3	113.5	136.2	158.9	89.4	107.3	125.1	143.0	161.6	
50		143.2	109.0	130.8	138.6	109.0	130.8	152.6	85.8	103.0	120.1	137.3	155.1	
51-1/4		139.7	106.3	127.6	135.2	106.3	127.6	148.9	83.7	100.5	117.2	134.0	151.3	
52		137.7	104.8	125.7	133.2	104.8	125.7	146.7	82.5	99.0	115.5	132.0	149.1	
36	51-1/4	142	185.0	147.1	176.5	185.0	147.1	176.5	185.0	115.8	139.0	162.2	185.0	185.0
42		165.6	126.1	151.3	160.3	126.1	151.3	176.5	99.3	119.1	139.0	158.9	179.4	
48		144.9	110.3	132.4	140.3	110.3	132.4	154.5	86.9	104.2	121.6	139.0	157.0	
50		139.1	105.9	127.1	134.7	105.9	127.1	148.3	83.4	100.1	116.8	133.4	150.7	
51-1/4		135.7	103.3	124.0	131.4	103.3	124.0	144.7	81.4	97.6	113.9	130.2	147.1	
52		132.9	101.9	122.9	130.3	101.9	122.9	142.3	79.9	96.2	111.5	128.6	144.5	
36	51-1/4	144	185.0	145.1	174.1	184.4	145.1	174.1	185.0	114.2	137.1	159.9	182.8	185.0
42		163.3	124.3	149.2	158.1	124.3	149.2	174.1	97.9	117.5	137.1	156.6	177.0	
48		142.9	108.8	130.6	138.3	108.8	130.6	152.3	85.7	102.8	119.9	137.1	154.8	
			4 ANCHORS AT FREE STANDING JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	6 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS	5 ANCHORS AT FREE STAND. JAMB ENDS	6 ANCHORS AT FREE STAND. JAMB ENDS	7 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS

SILL ANCHOR LOAD CAPACITY – PSF					
ANCHOR TYPE		ANCHOR TYPE 'BB'			
SHIM SPACE		1/4" MAX. SHIM			
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	7 ANCHORS AT MTG. STYLE ENDS	8 ANCHORS AT MTG. STYLE ENDS		
		EXT. (+) INT. (–)	EXT. (+) INT. (–)		
48	90	185.0	185.0		
50		185.0	185.0		
51–1¼		185.0	185.0		
52		185.0	185.0		
54		185.0	185.0		
56		185.0	185.0		
48	96	185.0	185.0		
50		185.0	185.0		
51–1¼		185.0	185.0		
52		185.0	185.0		
54		185.0	185.0		
56		185.0	185.0		
48	102	185.0	185.0		
50		185.0	185.0		
51–1¼		185.0	185.0		
52		185.0	185.0		
54		185.0	185.0		
56		184.1	185.0		
48	106–1/2	185.0	185.0		
50		185.0	185.0		
51–1¼		185.0	185.0		
52		185.0	185.0		
54		182.9	185.0		
56		176.4	185.0		
48	126	176.7	185.0		
50		168.3	182.1		
51–1¼		162.9	177.7		
52		160.5	175.1		
54		154.6	168.6		
56		149.1	162.6		
36	132	185.0	185.0		
42		185.0	185.0		
48		166.0	181.1		
50		159.4	173.8		
51–1¼		155.5	169.6		
52		153.2	167.2		
54		147.6	161.0		
36	138	185.0	185.0		
42		181.5	185.0		
48		158.8	173.2		
50		152.4	166.3		
51–1¼		148.7	162.2		
52		146.6	159.9		
36	142	185.0	185.0		
42		176.4	185.0		
48		154.3	168.3		
50		148.1	161.6		
51–1¼		144.5	157.7		
52		142.9	156.6		
36	144	185.0	185.0		
42		173.9	185.0		
48		152.2	166.0		
		4 ANCHORS AT FREE STAND. JAMB ENDS	4 ANCHORS AT FREE STAND. JAMB ENDS		

SEE CHARTS ON SHEETS 2 & 3 FOR DESIGN LOAD CAPACITY
OF DESIRED GLASS SIZE AND REINFORCING TYPES.
SEE CHART ABOVE FOR HEAD AND SILL ANCHOR CAPACITY.
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART,
HEAD ANCHOR CHART OR SILL ANCHOR CHART WILL APPLY
TO ENTIRE SYSTEM.



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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

SERIES ES-6600 ULTRA ALUM SLIDING DOOR (S.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

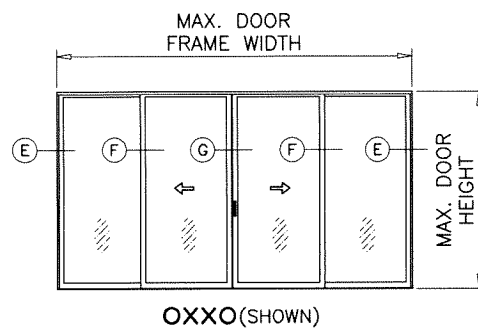
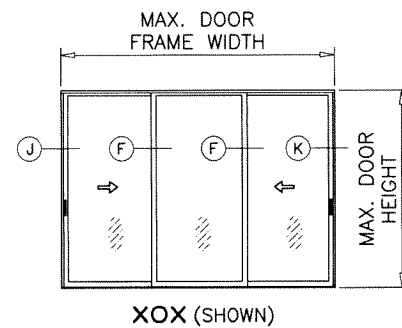
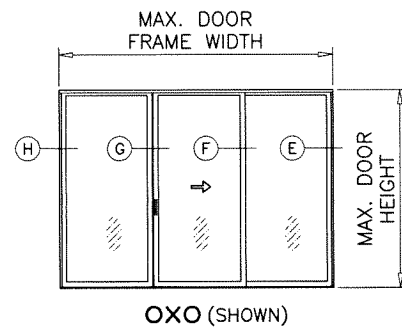
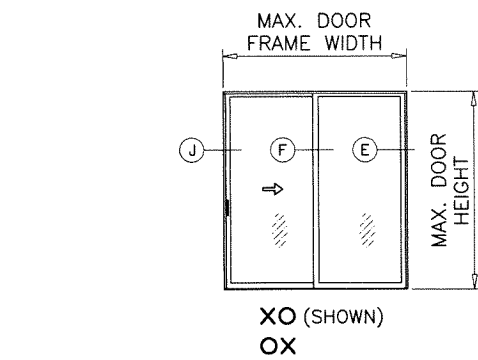
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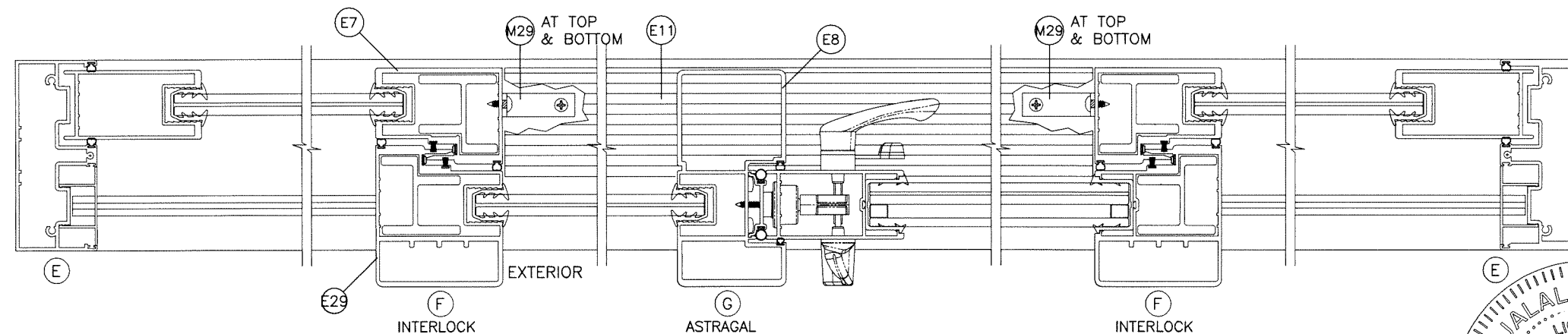
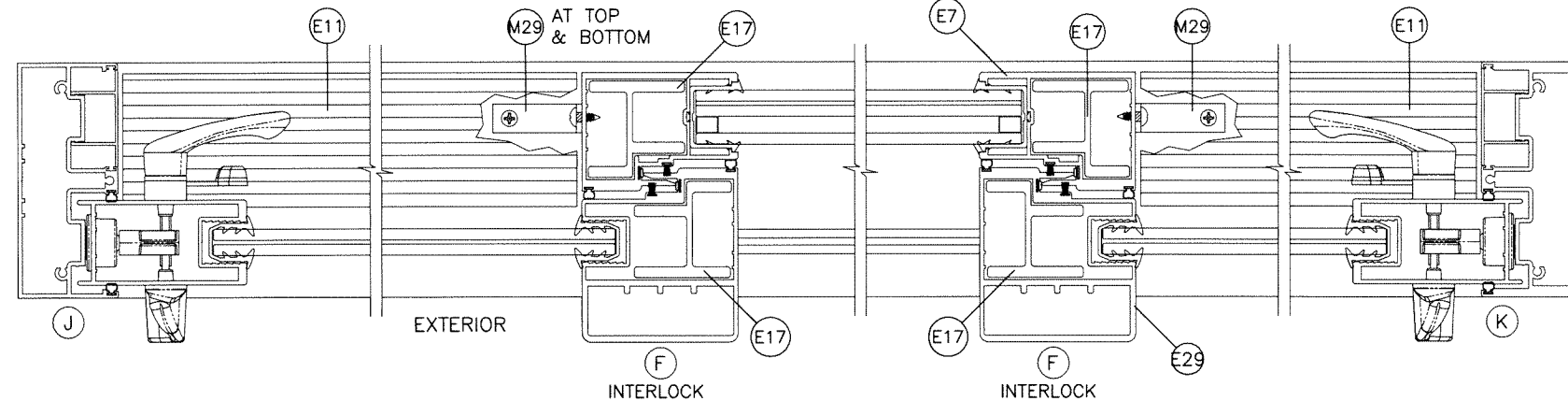
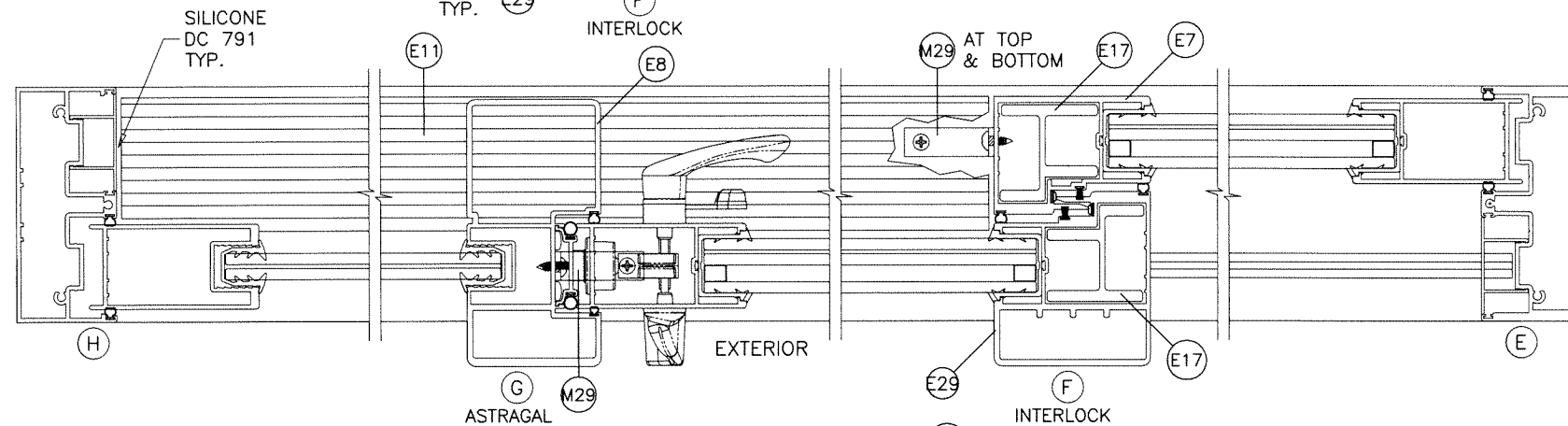
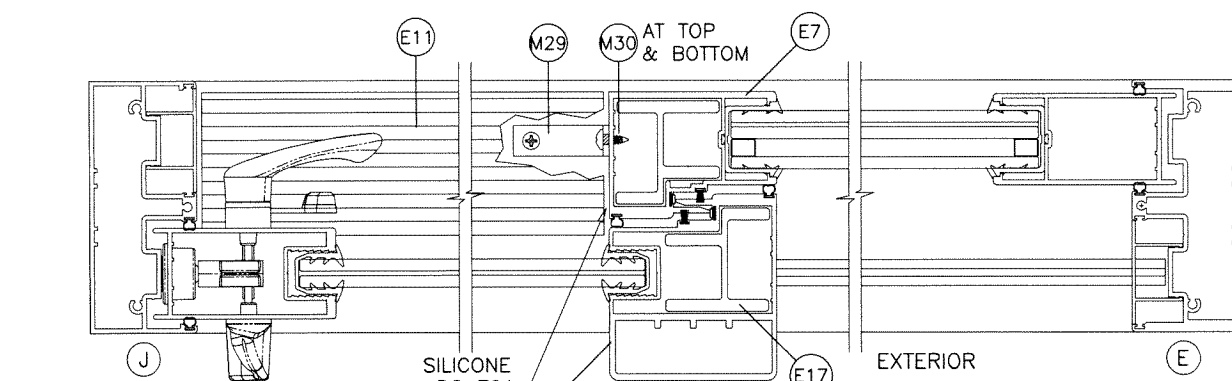
dr. by: TARIQ

chk. by:

drawing no.
W17-74</

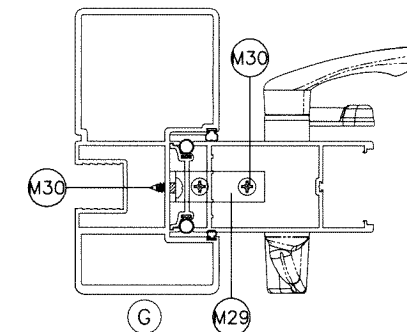


APPROVED CONFIGURATIONS
NOT TO EXCEED TESTED DOOR SIZE AND TESTED PANEL AREA

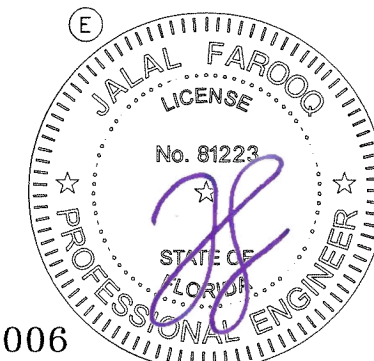


NOTE:

1. OPERABLE PANEL TO BE ON EXTERIOR TRACKS WITH SAFEGUARD.
2. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
3. FOR APPLICABLE DESIGN PRESSURES SEE SHEETS 2 AND 3 FOR INSTRUCTIONS SEE SHEET 1.
4. FOR ANCHOR DETAILS SEE SHEETS 9 THRU 12.
5. THE FRAME AREA OF ALTERNATE SIZE UNIT SHALL NOT EXCEED FRAME & PANEL AREA OF TESTED UNIT PER FBC REQUIREMENTS.



CLIP REQUIRED AT OXO DOORS ONLY
AT TOP AND BOTTOM, SECURED WITH
(2) #10 SMS PER EXTERIOR FIXED PANEL LEG
(TOTAL 4 PER CLIP)



Sealed: 9/22/2026

FL #23006

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SERIES ES-6600 ULTRA ALUM SLIDING DOOR (S.M.I.)

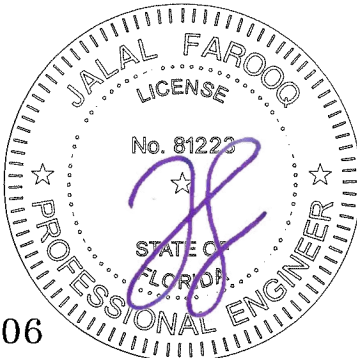
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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dr. by:	TARIQ	chk. by:	
drawing no.		W17-74	
sheet		7 of 15	

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-6500-001	1	STANDARD FRAME HEAD	6063-T6	-
E2	ES-6500-002	1	FRAME SILL	6063-T6	-
E3	ES-6500-003	2	STANDARD FRAME JAMB	6063-T6	-
E4	ES-6500-004	2	HEAVY DUTY FRAME JAMB	6063-T6	-
E5	ES-6500-005	2/ PANEL	TOP AND BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	-
E5A	ES-6500-024A	2/ PANEL	TOP AND BOTTOM RAIL (LAM. GLASS)	6063-T6	-
E6	ES-6500-006	1/ PANEL	LOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E6A	ES-6500-023	1/ PANEL	LOCK STILE (LAM. GLASS)	6063-T6	-
E7	ES-6500-007	1/ PANEL	INNER PANEL INTERLOCK STILE (INSUL. LAM. GLASS)	6005-T5	-
E7A	ES-6500-025	1/ PANEL	INNER PANEL INTERLOCK STILE (LAM. GLASS)	6005-T5	-
E8	ES-6500-025	1	ASTRAGAL STILE (INSUL. LAM. GLASS)	6005-T6	-
E8A	ES-6500-031	1	ASTRAGAL STILE (LAM. GLASS)	6005-T5	-
E9	ES-6500-009	1	ASTRAGAL ADAPTER	6063-T6	-
E10	ES-6500-010	1	ADD-ON TRACK	6063-T6	-
E11	ES-6500-011	1	THRESHOLD (LENGTH = OPNG. WIDTH BETWEEN FIXED PANELS)	6063-T6	-
E12	ES-6500-012	2	SNAP-IN JAMB COVER (OPTIONAL)	6063-T5	-
E13	ES-6500-013	1	TRACK INSERT	6063-T6	-
E14	ES-6500-014A	-	RETAINER CLIP, 4" LONG	6063-T6	-
E15	ES-6500-015	AS REQD.	SCREEN RAIL	6063-T6	-
E17	ES-6500-017	AS REQD.	INTERLOCK REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E18	ES-6500-018	AS REQD.	HEAD COVER FULL LENGTH	6063-T5	-
E19	-	AS REQD.	INNER INTERLOCK STILE (LAM. GLASS)	6063-T5	-
E20	ES-6600-016	AS REQD.	ASTRAGAL REINFORCEMENT, FULL LENGTH	6005-T5	-
E22	ES-6011	AS REQD.	SCREW COVER (OPTIONAL)	6063-T6	-
E29	ES-6500-028	1/ PANEL	OUTER PANEL INTERLOCK STILE (INSUL. LAM. GLASS)	6005-T5	-
E29A	ES-6500-030	1/ PANEL	OUTER PANEL INTERLOCK STILE (LAM. GLASS)	6005-T5	-
E30	ES-6500-027	1	SILL SCREW COVER	6063-T5	-
E32	ES-6500-033	2	FIXED PANEL BOTTOM GUIDE	6005-T5	-
E33	-	AS REQD.	FRAME JAMB ALUMINUM REINFORCING	6063-T6	-
E34	-	AS REQD.	FRAME JAMB STEEL REINFORCING	STEEL	ASTM A36 GRADE B
M1	#12 X 1 1/2"	3/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M2	#10 X 1 1/2"	4/ CORNER	PANEL ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M3	#8 X 1"	2/ LOCK	LOCK FASTENERS	ST. STEEL	F.H. SMS
M4	#8 X 3/4"	2/ HANDLE	HANDLE SET FASTENERS	ST. STEEL	P.H. SMS
M6	#10 X 1/2"	2/ CLIP	RETAINER CLIP FASTENERS	ST. STEEL	F.H. SMS
M8	E-214	AS REQD.	ASTRAGAL ADAPTER W'STRIPPING	VINYL	THERMOPLASTIC ELASTOMER
M14	ES-6600-G01	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	EPDM	DUROMETER 65±5 SHORE A, EXTRUSIONS S.A.
M14A	ES-6600-G01A	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, TREMCO
M15	27-564	4/ PANEL	GLAZING GASKET (LAM. GLASS)	EPDM	DUROMETER 65±5 SHORE A, EXTRUSIONS S.A.
M15A	ES-6600-G02A	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONS S.A.
M17	Q300T190	AS REQD.	FABRIC COATED FOAM WEATHERSEAL	POLYETHYLENE	Q-LON
M18	Q200T190	AS REQD.	WEATHERSEAL EXTERIOR	POLYETHYLENE	Q-LON
M19	Q150T270	AS REQD.	INTERLOCK BUMPER	POLYETHYLENE	Q-LON
M20	W223012K	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M21	-	2/ MOV. PANEL	TANDEM ACETAL WHEELS IN METALLIC HOUSING	-	-
M22	PS01-1015-00B	1	MORTISE LOCK KEEPER	-	INTERLOCK
M23	PS01-0035-00B	1	TWO POINT 3-PLY HOOK LOCK	-	INTERLOCK
M24	PS01-0016-XXX	1/ MOV. PANEL	HANDLE SET	-	INTERLOCK
M26	52019	AS REQD.	THRESHOLD W'STRIPPING	-	AMESBURY
M27	ES-7000 G01	AS REQD.	SILL W'STRIPPING	SILICONE	DUROMETER 60±5 SHORE A
M29	ALU-A-027	-	FIX. PANEL ANGLE, 2" X 2" X 1/8" X 7/8" LONG	6063-T5	HEAD/SILL (FIXED PANEL)
M30	#10 X 1"	4/ CLIP	FIX. PANEL ANGLE FASTENERS	-	HWH SMS
M32	ES-6500-S01	-	1/4" SPACER FOR JAMB	NYLON	-
M33	ES-6500-034	-	1/2" SPACER FOR ASTRAGAL	NYLON	-
M35	P6304 AFK	-	ADHESIVE PILE PAD (4" X 1" X 1/2")	-	ULTRAFAB
M36	-	AS REQD.	TOP & BOTTOM RAIL REINFORCING	6063-T6	1/4" X 1-1/2" X FULL LENGTH
M37	#10 X 1 1/4"	2/ BAR	REINFORCING BAR FASTENERS, AT 6" FROM EACH END	ST. STEEL	F.H. SMS
M38	W73341NK000B	AS REQD.	THRESHOLD WEATHERSEAL	PILE	-
M39	ES-6500-301	AS REQD.	BOTTOM SPACER	POLYPROPYLENE	-

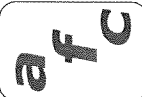
SEALANT:

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



Sealed: 9/22/2026

FL #23006

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SERIES ES-6600 ULTRA ALUM SLIDING DOOR (S.M.I.)

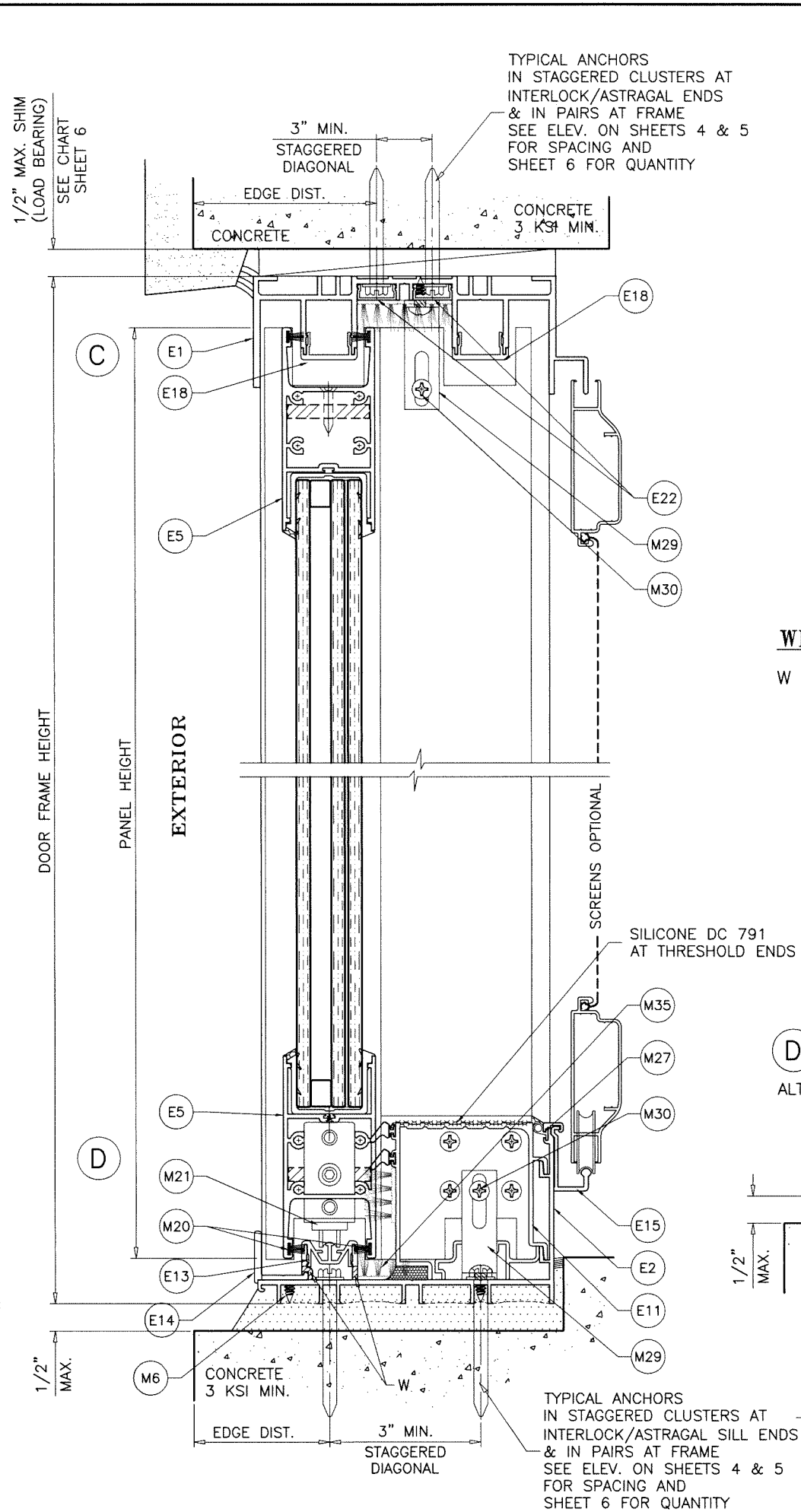
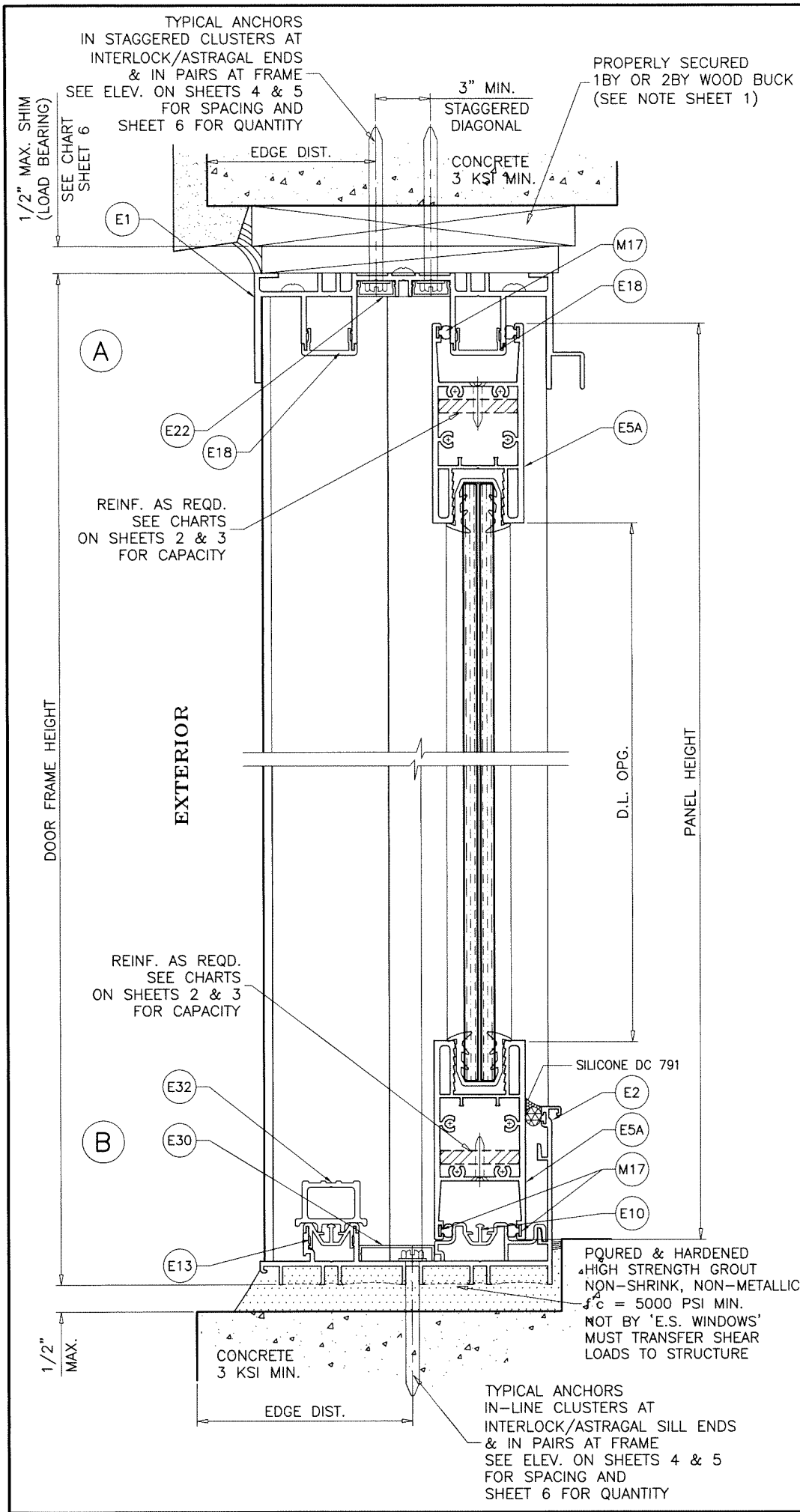
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chk. by:

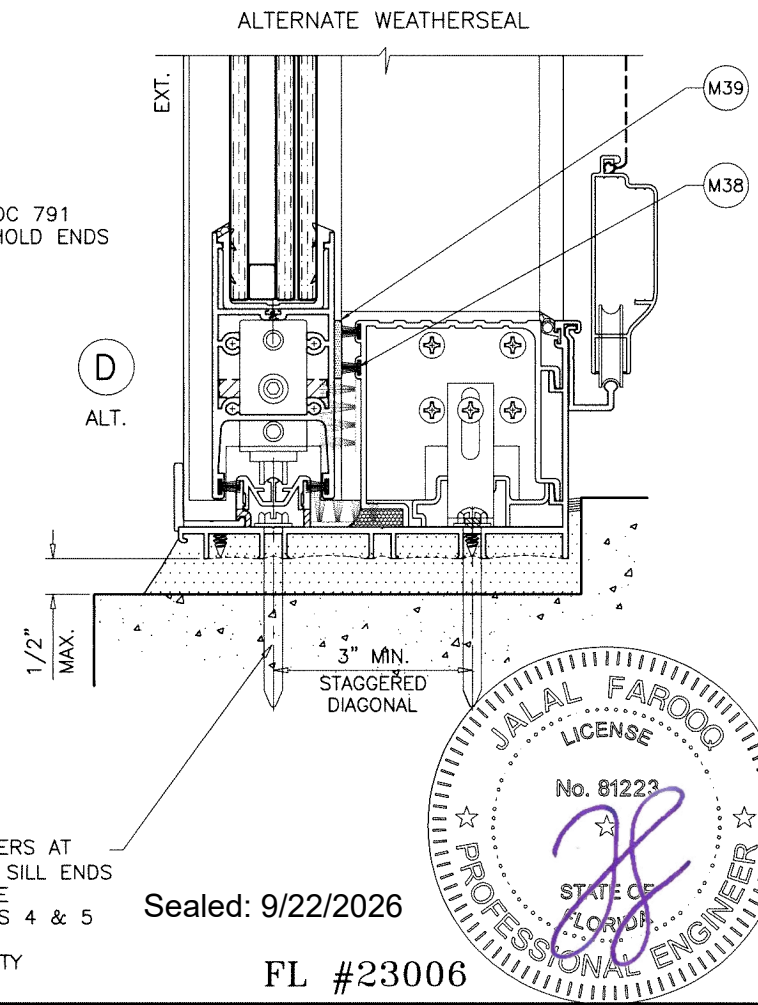
drawing no.
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COMP-ANL\W17-74ESW



WEEPHOLES:

W = 1/4" X 3" LONG WEEP HOLES AT 4 1/2" FROM EACH END.



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scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no. **W17-74**

sheet 9 of 15

1BY OR 2BY 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

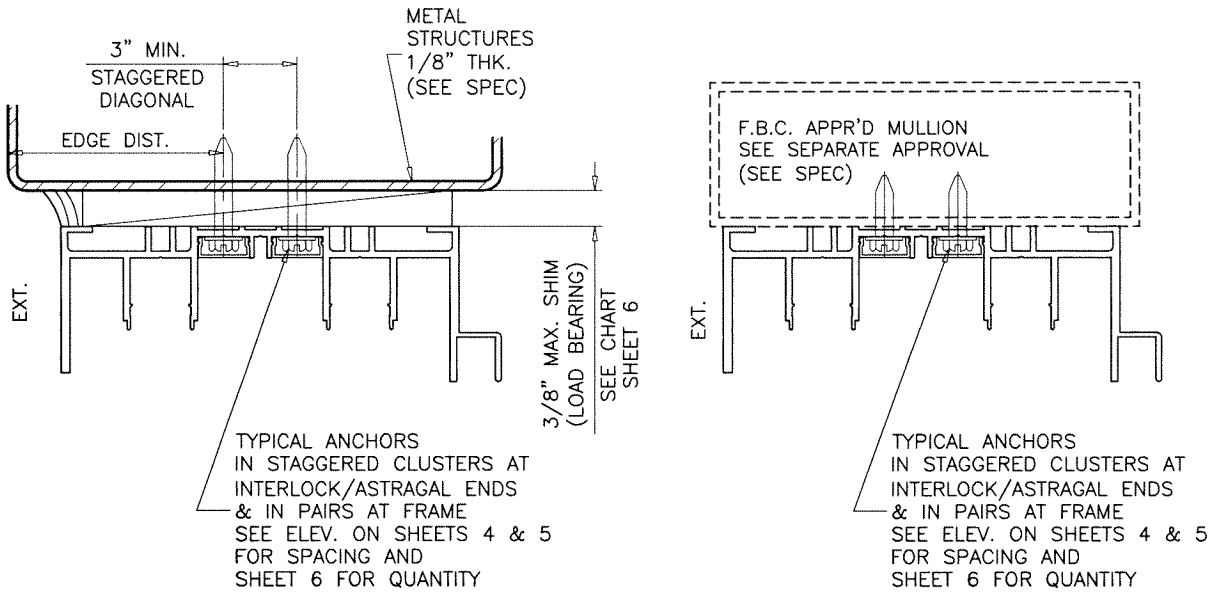
- AT HEAD (FOR DOORS WITHOUT HEAD RECEPTOR) —
- TYPE 'A'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO WOOD STRUCTURES
1-7/8" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE
- TYPE 'B'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED
- TYPE 'C'— 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. 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)

- AT SILL (FOR DOORS W/NO HEAD RECEPTOR) —
- TYPE 'B'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED

- AT JAMBS (FOR DOORS WITH OR WITHOUT HEAD RECEPTOR) —
- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO WOOD STRUCTURES
1-7/8" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE OR FILLED BLOCKS
- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE
1-1/4" MIN. EMBED INTO BLOCKS
- 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. 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)

ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.
INTO MASONRY = 3-1/8" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
WOOD AT HEAD 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.



ALTERNATE SUBSTRATES

Sealed: 9/22/2026



FL #23006

afc

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date: 08-17-17

scale: 3/8" = 1"

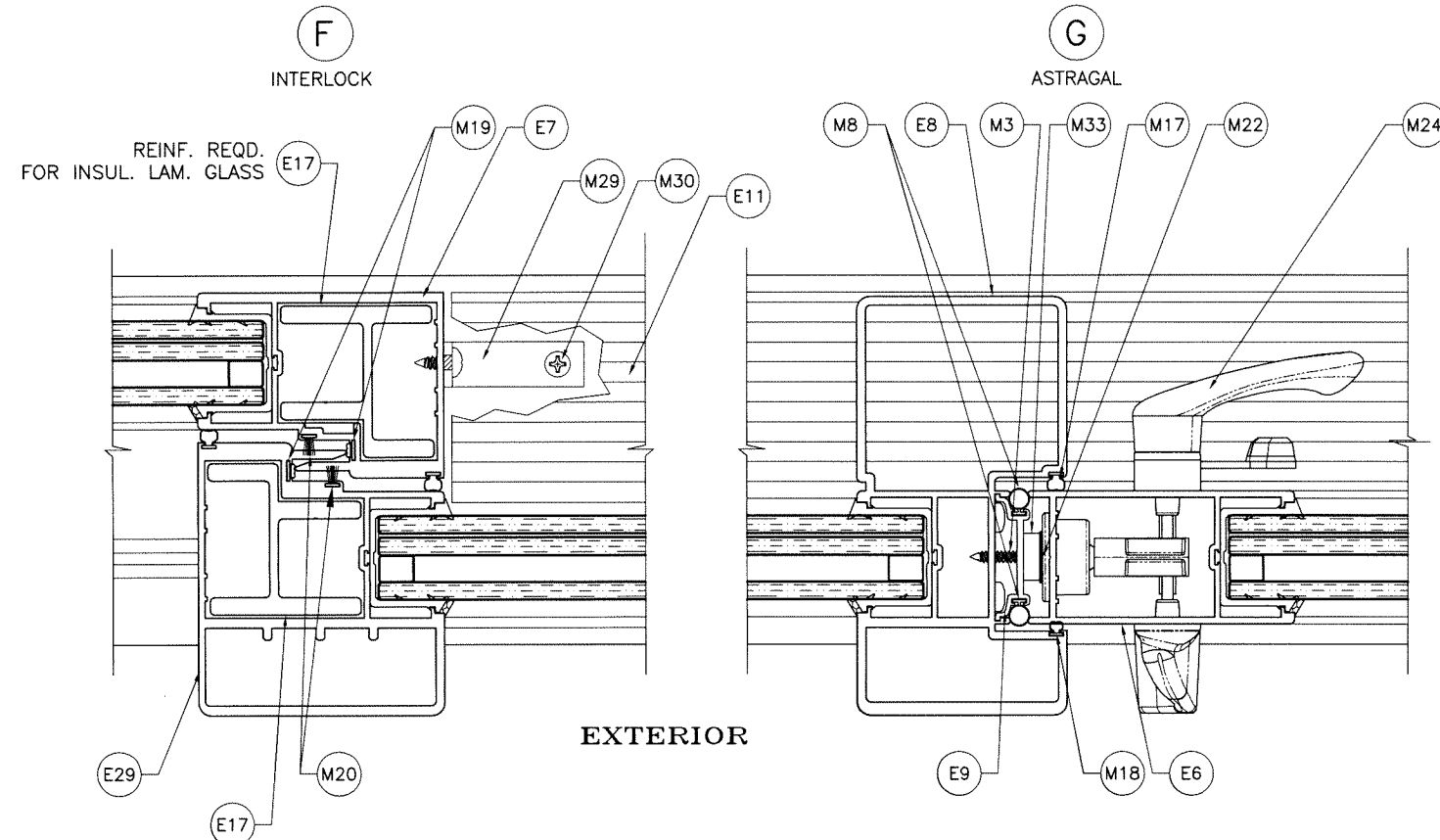
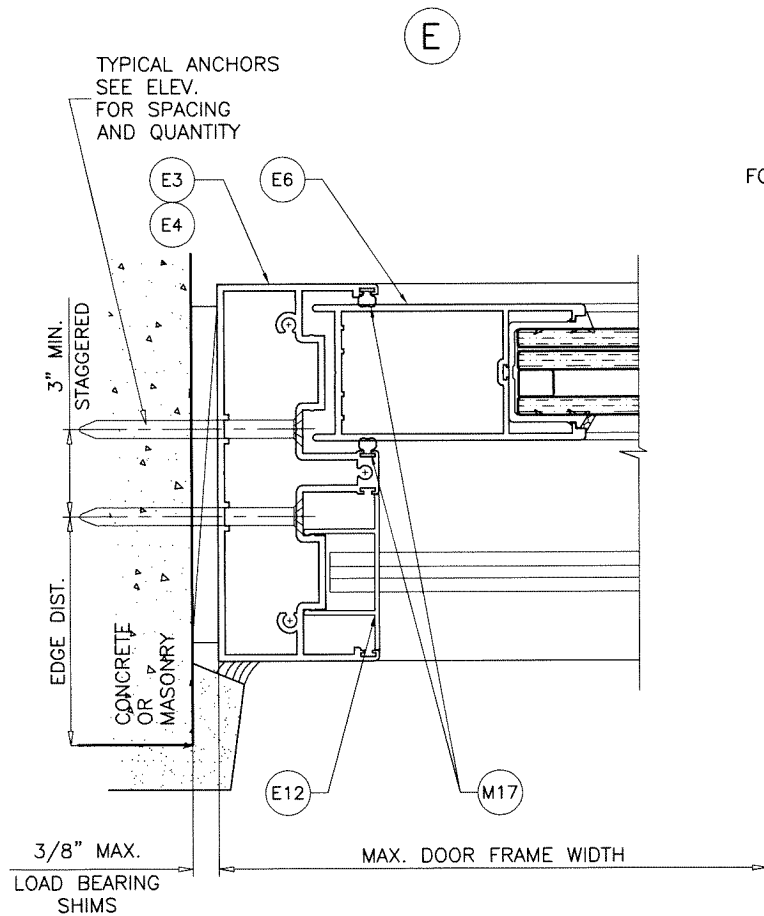
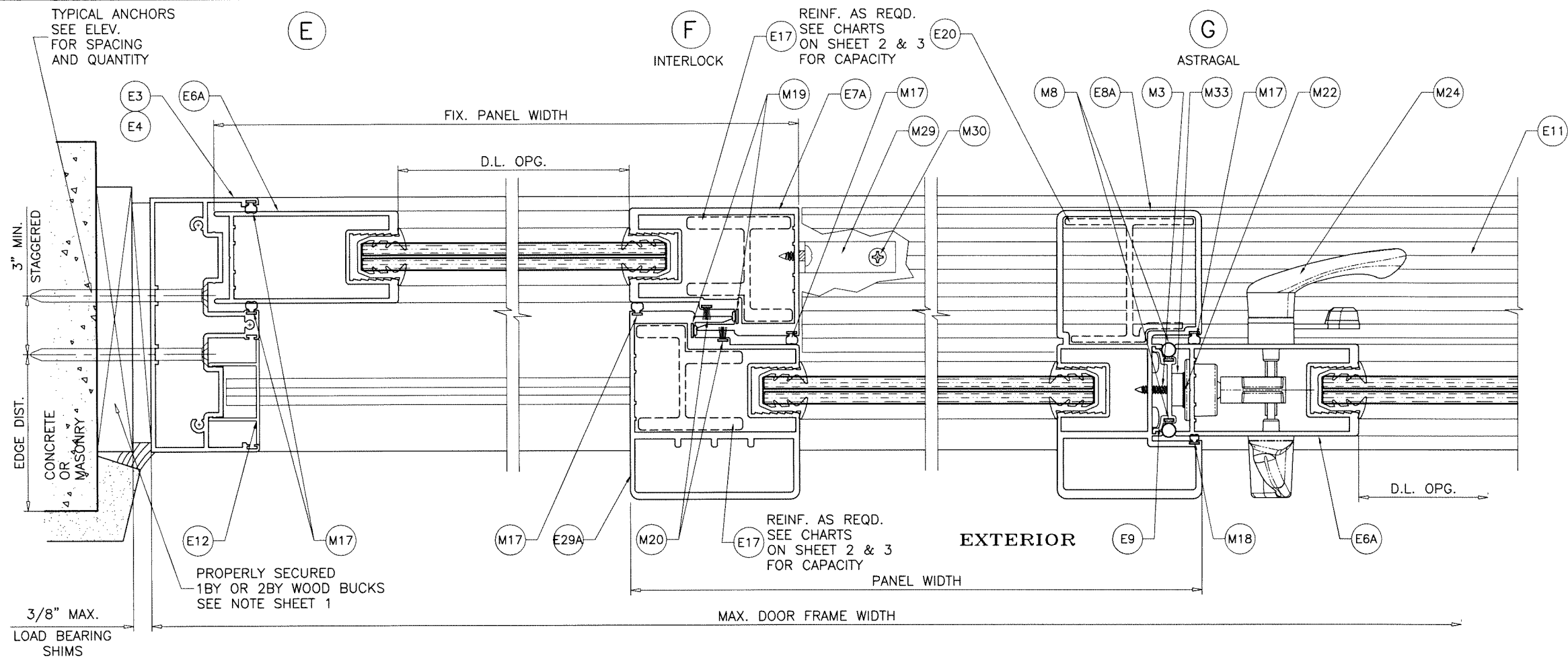
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chk. by:

drawing no.

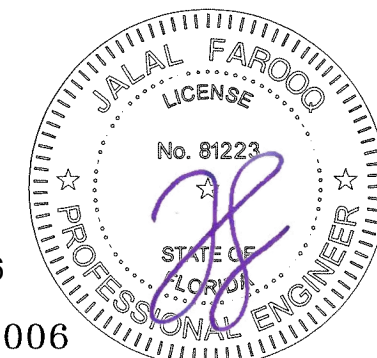
W17-74

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FL #23006



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

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COMP-ANL W17-74ESW

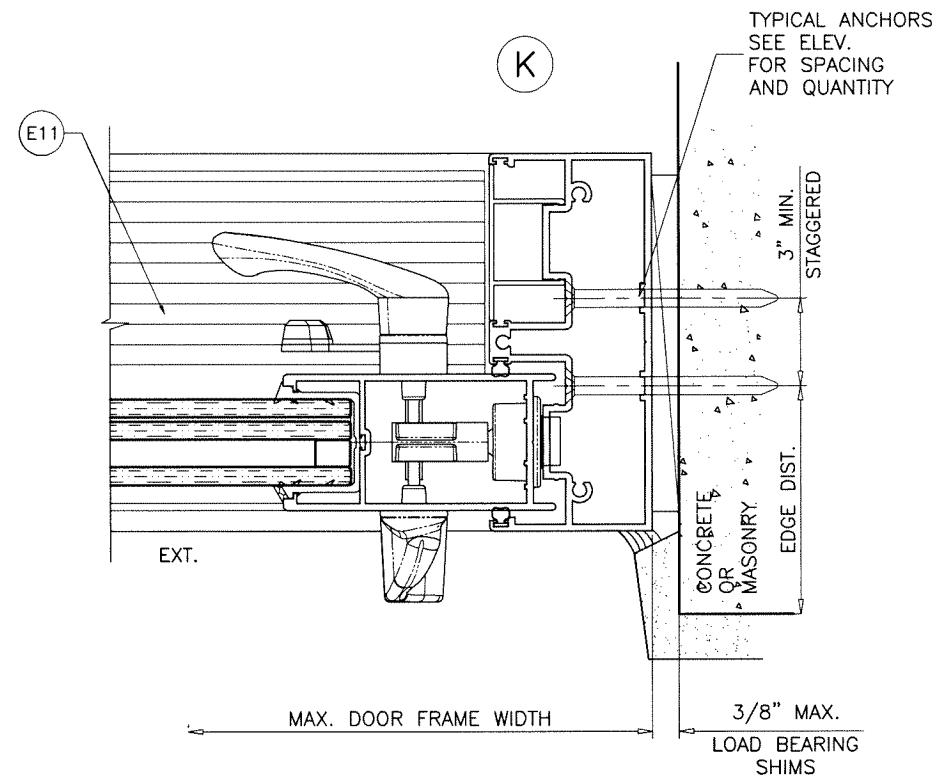
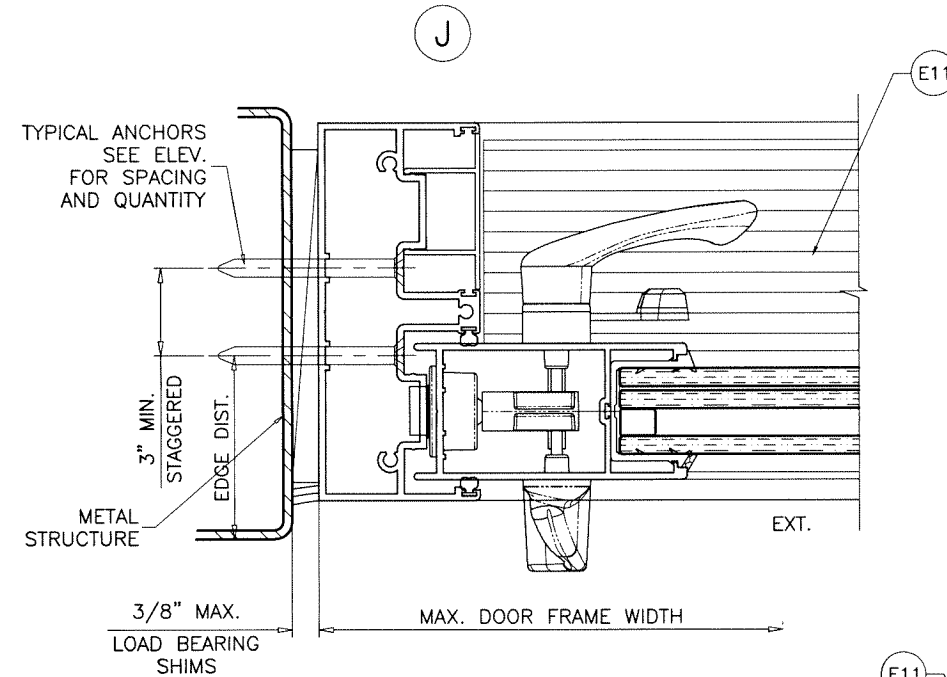
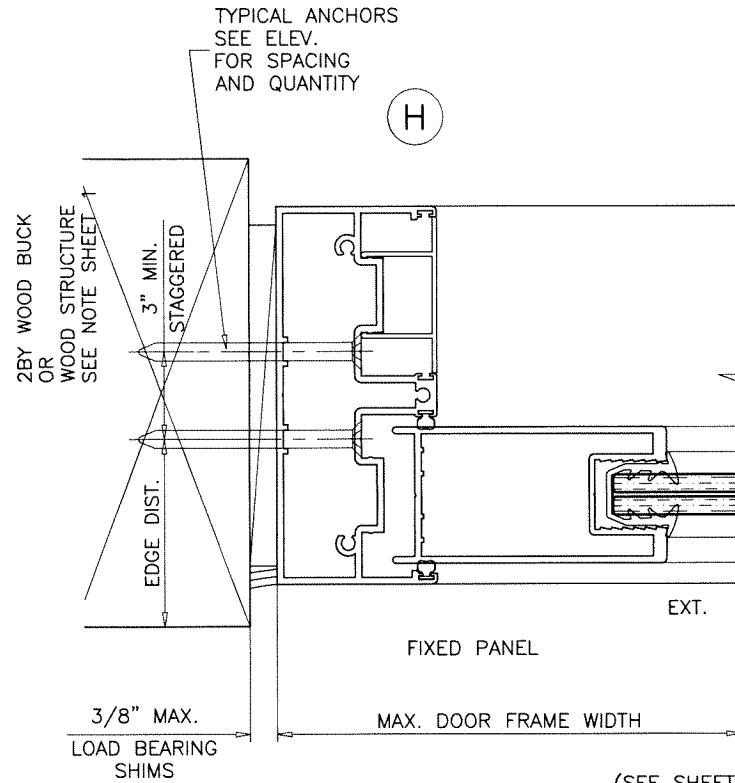
SERIES ES-6600 ULTRA ALUM SLIDING DOOR (S.M.I.)

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

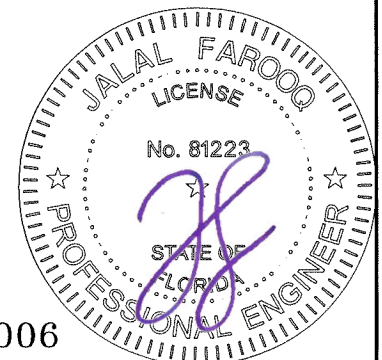
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dr. by: TARIQ
chk. by:

drawing no.
W17-74
sheet 11 of 15



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no	date	by	description

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drawing no.
W17-74

sheet 12 of 15

FREE STANDING JAMB DESIGN LOAD CAPACITY - PSF							
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	WITHOUT REINF.		WITH ALUM REINF.		WITH STEEL REINF.	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
48	90	120.0	185.0	120.0	185.0	120.0	185.0
50		120.0	185.0	120.0	185.0	120.0	185.0
51-1/4		120.0	185.0	120.0	185.0	120.0	185.0
52		120.0	185.0	120.0	185.0	120.0	185.0
54		120.0	185.0	120.0	185.0	120.0	185.0
56		120.0	185.0	120.0	185.0	120.0	185.0
48	96	120.0	185.0	120.0	185.0	120.0	185.0
50		120.0	185.0	120.0	185.0	120.0	185.0
51-1/4		120.0	185.0	120.0	185.0	120.0	185.0
52		120.0	185.0	120.0	185.0	120.0	185.0
54		120.0	180.3	120.0	185.0	120.0	185.0
56		120.0	173.8	120.0	185.0	120.0	185.0
48	102	120.0	178.5	120.0	185.0	120.0	185.0
50		120.0	171.3	120.0	185.0	120.0	185.0
51-1/4		120.0	167.1	120.0	185.0	120.0	185.0
52		120.0	164.7	120.0	185.0	120.0	185.0
54		120.0	158.6	120.0	185.0	120.0	185.0
56		120.0	153.0	120.0	185.0	120.0	185.0
48	106-1/2	120.0	162.9	120.0	185.0	120.0	185.0
50		120.0	145.0	120.0	145.0	120.0	145.0
51-1/4		120.0	145.0	120.0	145.0	120.0	145.0
52		120.0	145.0	120.0	145.0	120.0	145.0
54		120.0	144.8	120.0	145.0	120.0	145.0
56		120.0	139.6	120.0	145.0	120.0	145.0
48	126	106.0	106.0	120.0	145.0	120.0	145.0
50		101.8	101.8	120.0	145.0	120.0	145.0
51-1/4		99.3	99.3	120.0	145.0	120.0	145.0
52		97.9	97.9	120.0	145.0	120.0	145.0
54		94.3	94.3	120.0	145.0	120.0	145.0
56		90.9	90.9	120.0	145.0	120.0	145.0
36	132	98.0	98.0	120.0	145.0	120.0	145.0
42		95.0	95.0	120.0	145.0	120.0	145.0
48		92.2	92.2	120.0	145.0	120.0	145.0
50		88.5	88.5	120.0	145.0	120.0	145.0
51-1/4		86.4	86.4	120.0	143.1	120.0	145.0
52	138	85.1	85.1	120.0	141.0	120.0	145.0
54		82.0	82.0	120.0	135.8	120.0	145.0
36		107.6	107.6	120.0	145.0	120.0	145.0
42		92.2	92.2	120.0	145.0	120.0	145.0
48		80.7	80.7	120.0	133.7	120.0	145.0
50	142	77.5	77.5	120.0	128.4	120.0	145.0
51-1/4		75.6	75.6	120.0	125.2	120.0	145.0
52		74.5	74.5	120.0	123.4	120.0	145.0
36		98.8	98.8	120.0	145.0	120.0	145.0
42		84.7	84.7	120.0	140.3	120.0	145.0
48	144	74.1	74.1	120.0	122.7	120.0	145.0
50		71.1	71.1	117.8	117.8	120.0	145.0
51-1/4		69.4	69.4	115.0	115.0	120.0	145.0
36		94.7	94.7	120.0	125.0	120.0	125.0
42		81.2	81.2	120.0	125.0	120.0	125.0
48		71.0	71.0	117.7	117.7	120.0	125.0

WITHOUT REINF.		WITH ALUM REINF.		WITH STEEL REINF.	
E33		E33		E34	
I _x IN ⁴ S _x IN ³		I _x IN ⁴ S _x IN ³		I _x IN ⁴ S _x IN ³	
8.204 3.125		13.592 5.720		ALUMINUM 8.204 3.125	
				STEEL 4.694 2.021	
				TOTAL I _x ALUM + I _x STL X 2.9 21.808	

DC-791 = 50% STRETCH
DC-795 = 100% STRETCH

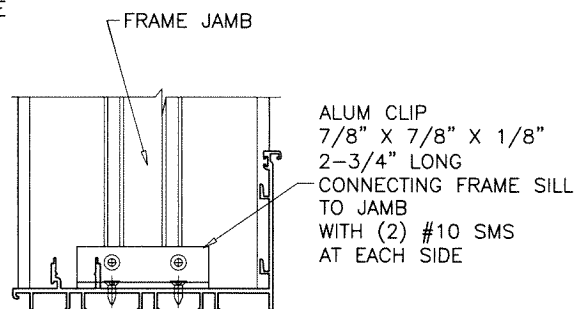
ALLOWABLE LOADS FOR DOOR HEIGHTS VERSUS 50% OR 100% STRETCH SILICONES (JAMBS WITHOUT REINF.)						
DOOR HEIGHT	1/4" MIN. GAP		3/8" MIN. GAP		1/2" GAP	
	50%	100%	50%	100%	50%	100%
96"	85 PSF	145 PSF	145 PSF	185 PSF	185 PSF	185 PSF
102"	85 PSF	85 PSF	85 PSF	185 PSF	145 PSF	185 PSF
106-1/4"	-	85 PSF	85 PSF	185 PSF	135 PSF	185 PSF
126"	-	-	-	-	-	85 PSF

DC-791 = 50% STRETCH
DC-795 = 100% STRETCH

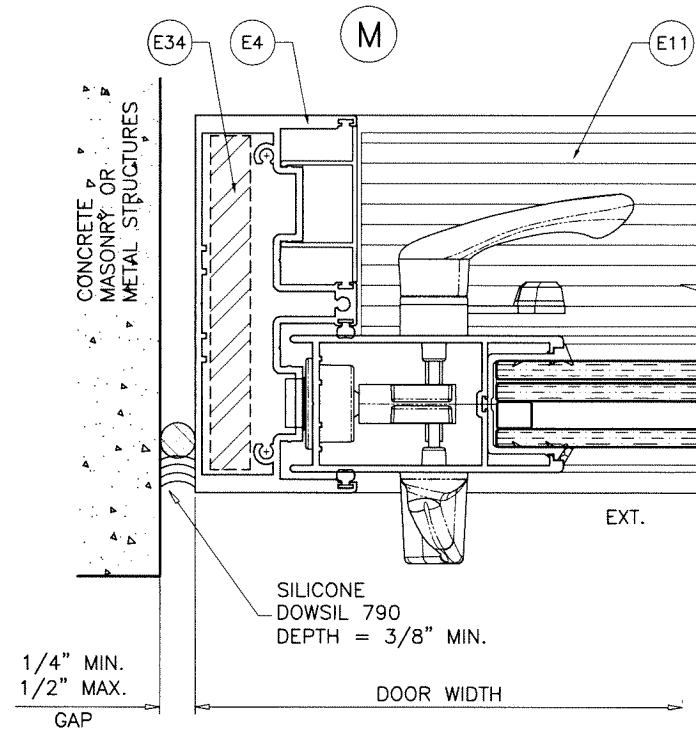
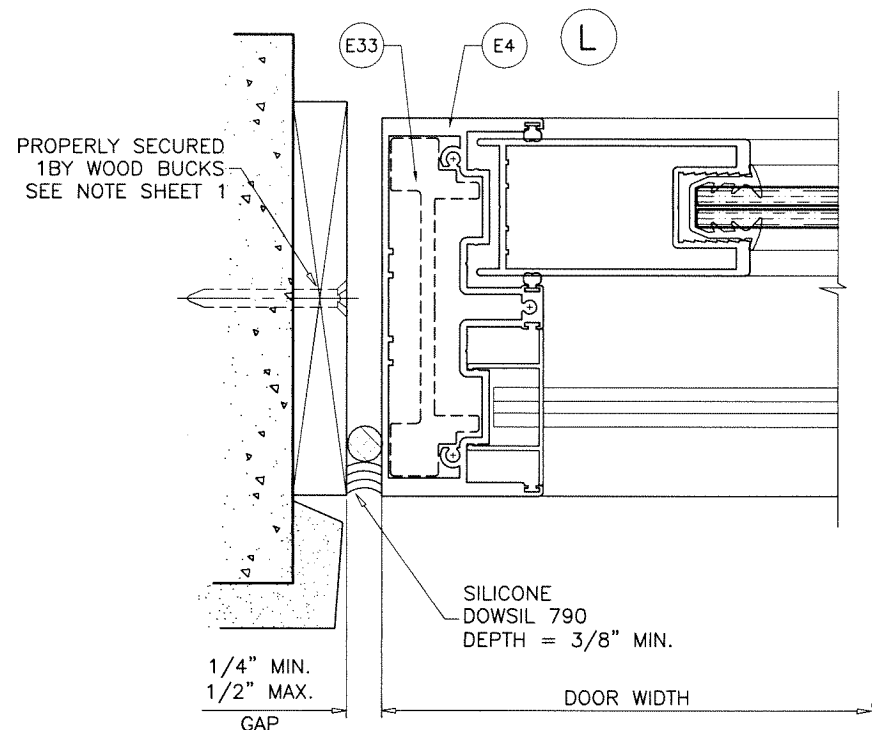
ALLOWABLE LOADS FOR DOOR HEIGHTS VERSUS 50% OR 100% STRETCH SILICONES (JAMBS WITH ALUM AND STEEL REINF.)						
DOOR HEIGHT	1/4" MIN. GAP		3/8" MIN. GAP		1/2" GAP	
	50%	100%	50%	100%	50%	100%
96"	145 PSF	185 PSF	185 PSF	185 PSF	185 PSF	185 PSF
102"	135 PSF	185 PSF	185 PSF	185 PSF	185 PSF	185 PSF
106-1/4"	85 PSF	145 PSF	145 PSF	185 PSF	185 PSF	185 PSF
126"	-	85 PSF	85 PSF	135 PSF	85 PSF	135 PSF
138"	-	-	-	85 PSF	85 PSF	85 PSF
144"	-	-	-	85 PSF	-	85 PSF

NOTE:
DATA IN THIS SHEET MAY BE USED TO QUALIFY SPECIFIED
JOINT SEALANT TO BE USED AT UNANCHORED FREE
STANDING JAMBS.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND
APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO
SUBSTRATE & DOOR MATERIAL FINISH AND COMPLIANCE
FOR WARRANTY. (UNDER SEPARATE REVIEW)

CONDITIONS OR OTHER SEALANTS NOT COVERED IN THIS
SHEET TO BE ENGINEERED SEPARATELY AND TO BE
REVIEWED BY AHJ.

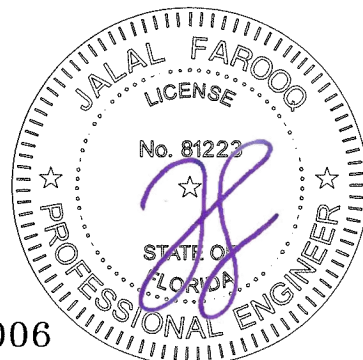


REINFORCEMENT CLIP REQUIRED AT
FREE STANDING JAMB WITH STEEL REINFORCING ONLY



Sealed: 9/22/2026

FL #23006



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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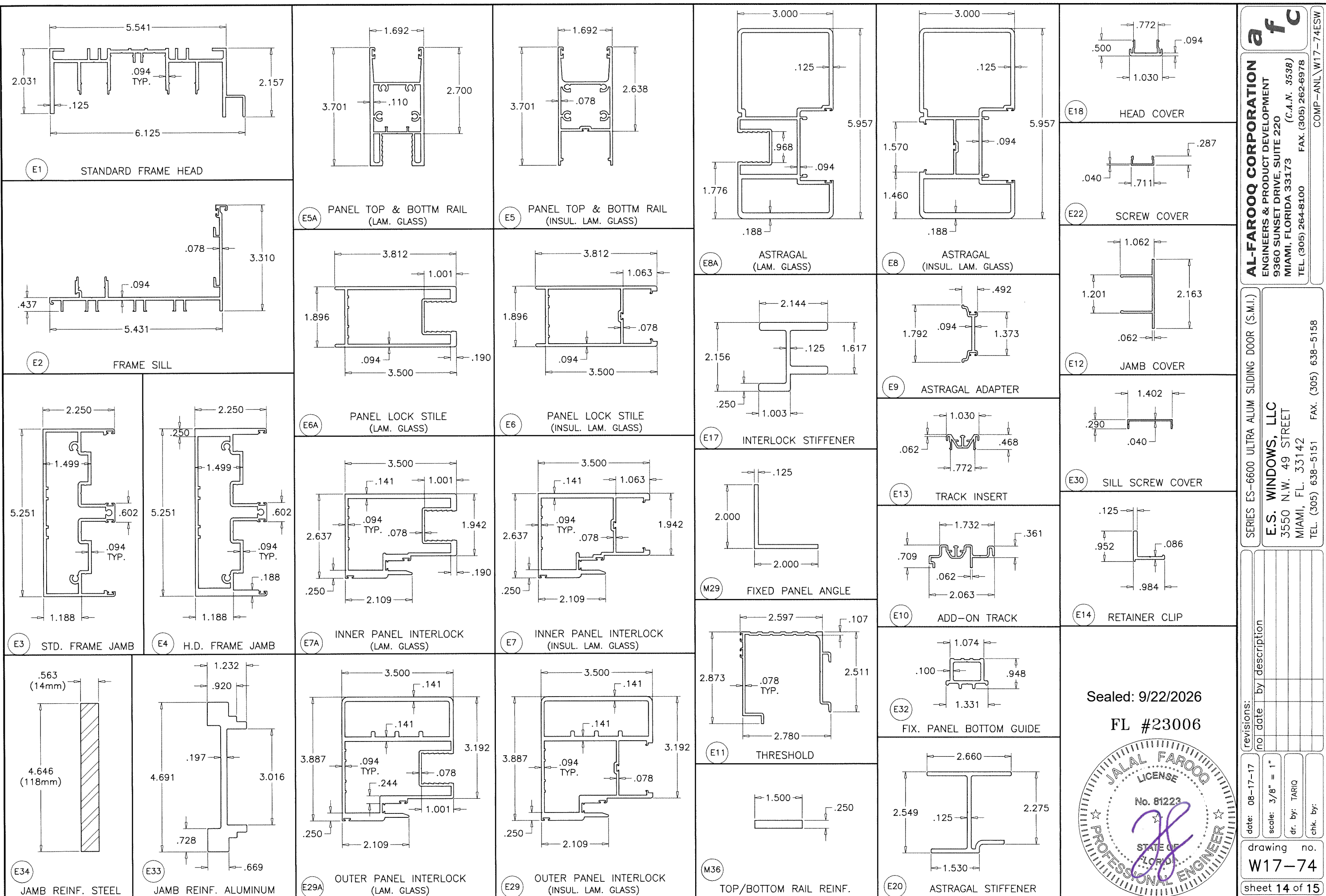
SERIES ES-6600 ULTRA ALUM SLIDING DOOR (S.M.I.)

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

revisions:
no date by description

date: 08-17-17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-74
sheet 13 of 15



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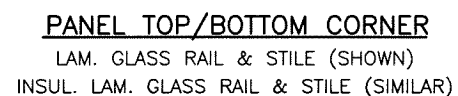
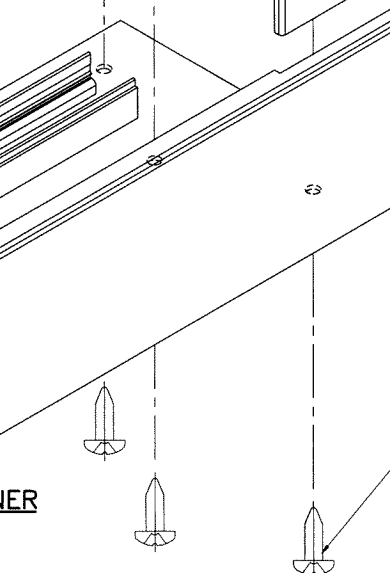
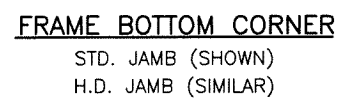
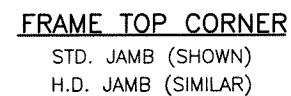
date: 08-17-17

scale: 3/8" = 1"

dr. by: TARIQ

chk. by:

drawing no.
W17-74
sheet 14 of 15



Sealed: 9/22/2026



GLAZING GAKET
LAM. GLASS



SILICONE GLAZING GASKET
INSUL. LAM. GLASS

BASE POLYMER = EPDM RUBBER

DENSITY = 10.26 Lbs/Gal

HARDNESS = 70 ± 5

TENSILE STRENGTH = 905 PSI

ELONGATION AT BREAK = 273%

TEAR STRENGTH = 1.343 Kip/ft

BRITTLENESS TEMPERATURE = -40° F
COMPRESSION SET = 27% (22h@158°F)

MATERIAL = SILICONE

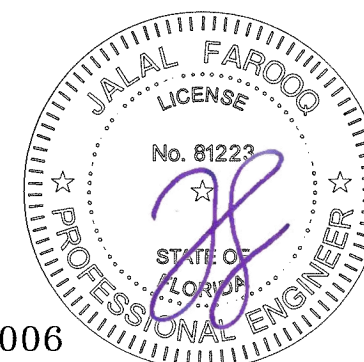
HARDNESS = 65 ± 5

TENSILE STRENGTH = 1139 PSI

ELONGATION AT BREAK = 235%

TEAR STRENGTH = 107 Lb/IN

BRITTLENESS TEMPERATURE = -40° F
COMPRESSION SET = 12.5% (22h@212°F)



FL #23006

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT

ALFA ROMEO CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220

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

MIAMI, FLORIDA 33173 (C.A.N. 3538)

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COMP-ANI \ W1

COMP-ANL\W17-74ESW

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MIAMI FL 33142

MIAMI, FL. 33142

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date:	08-17-17	revisions:	
scale:	$\frac{3}{8}'' = 1''$	no.	description
dr. by:	TARIQ		
chk. by:			

drawing no. **W17-74**

sheet **15** of **15**