

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 4 & 5 FOR THE GLASS TYPE AND REINFORCING TO USE.
- STEP 3** USING HEAD ANCHOR CAPACITY CHARTS FOR DOORS WITH OR WITHOUT HEAD RECEPTOR AND SILL ANCHOR CAPACITY CHART, SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 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 ALUMINUM SLIDING GLASS DOOR

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.

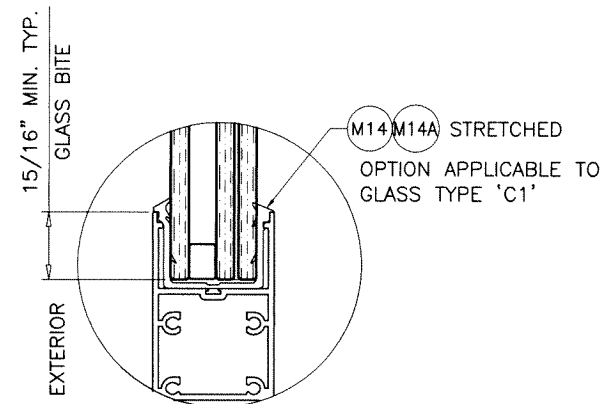
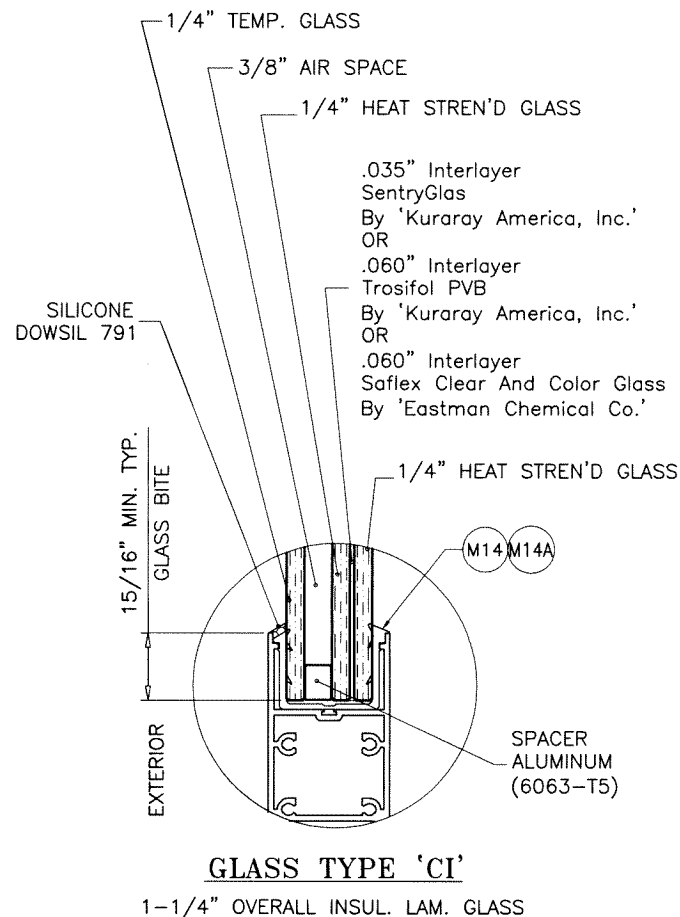
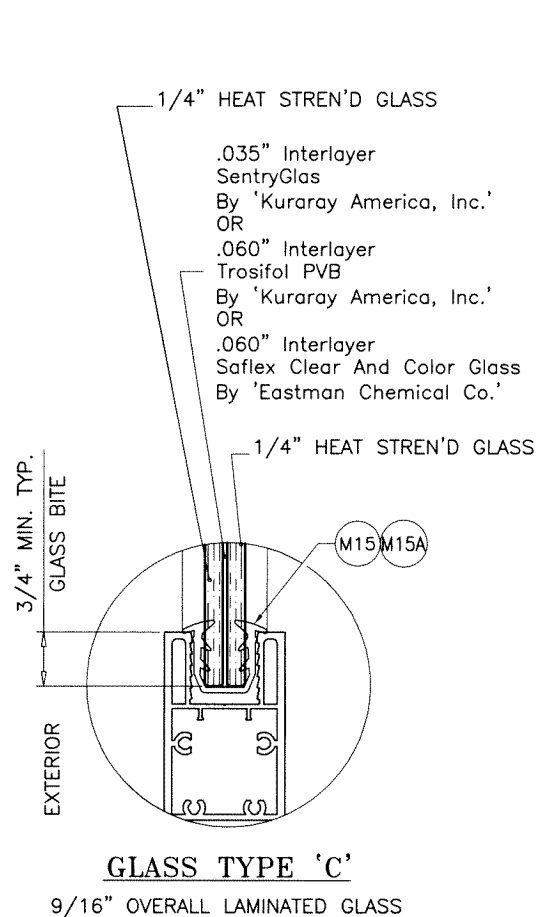
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.



GLAZING OPTIONS

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

DAYLITE OPENINGS WIDTHS:

FIXED STILE-INTERLOCK = PANEL WIDTH - 7.437"
INTERLOCK-ASTRAGAL = PANEL WIDTH - 6.375"
LOCK STILE-INTERLOCK = PANEL WIDTH - 7.187"

DAYLITE OPENING HEIGHT:

PANEL HEIGHT - 7.375"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.750" (W/O RECEPTOR)

PANEL HEIGHT = OVERALL HEIGHT - 3.500" (WITH RECEPTOR)

Sealed: 9/15/2023

LAMINATED GLASS
INSUL. LAM. GLASS
SMALL MISSILE IMPACT

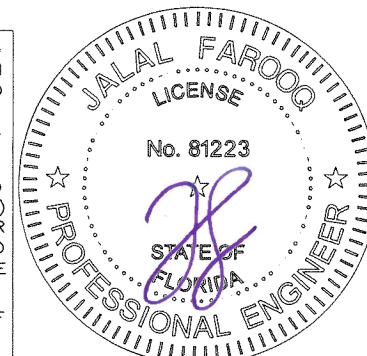
FL #23006

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.

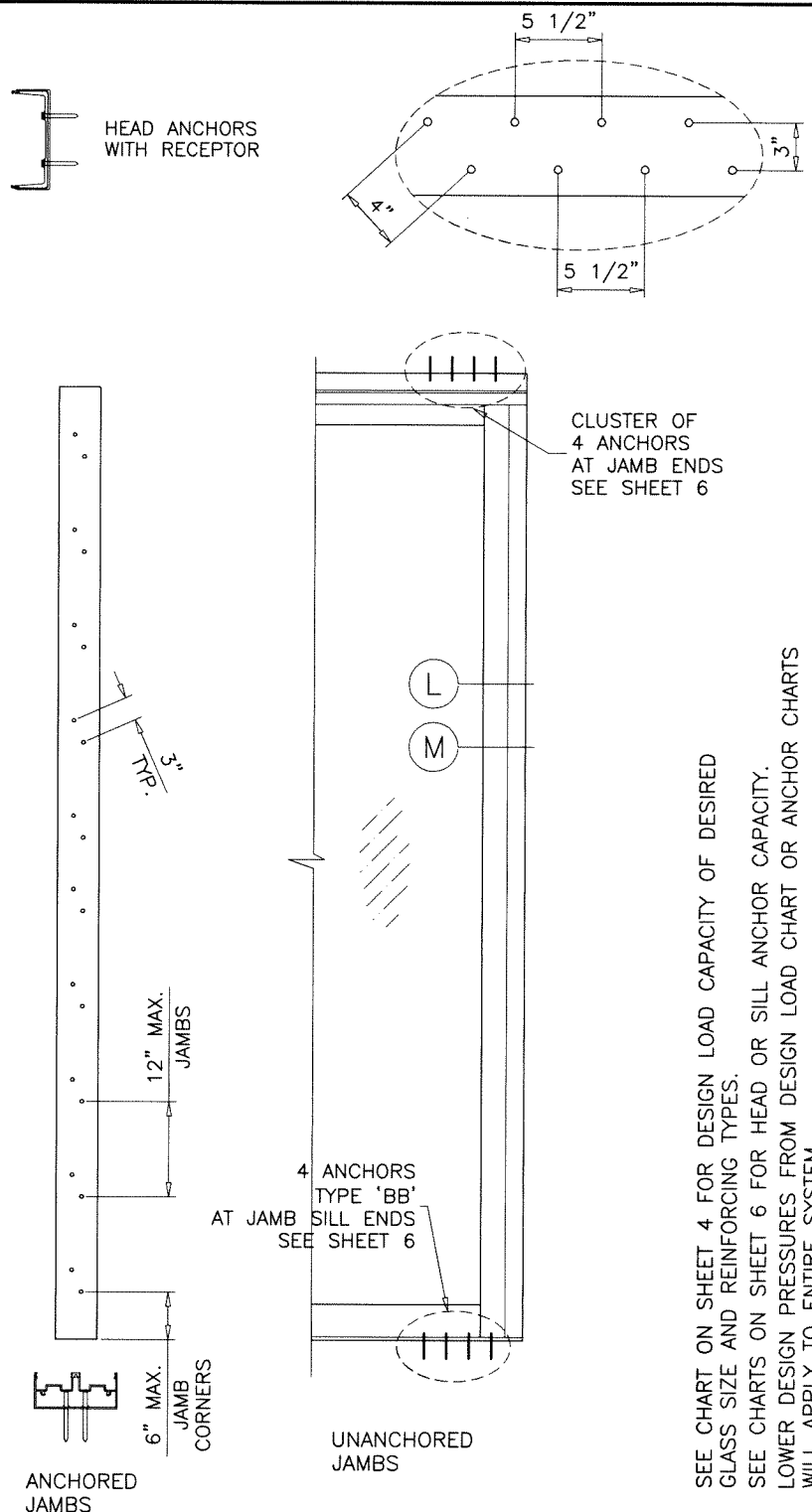
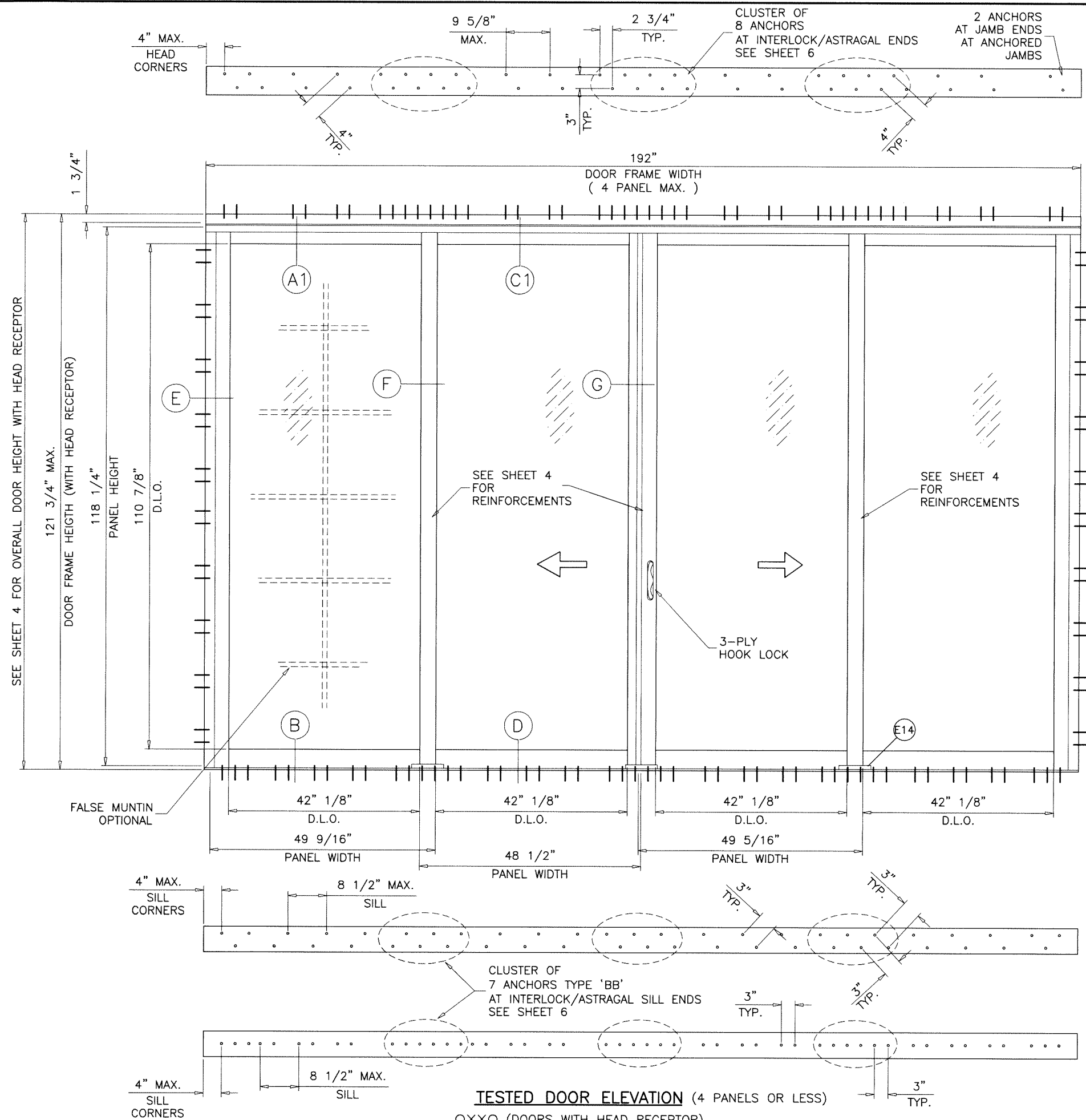
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

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.



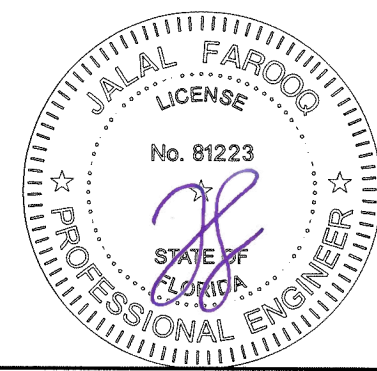
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 (C.A.N. 3538) TEL. (305) 264-8100 FAX. (305) 262-6978 COMP-ANL\W17-71ES			
SERIES ES-6600 ALUM SLIDING GLASS DOOR (S.M.I.)			
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158			
revisions:	no.	date	description
	A	12.14.20	UPDATED TO 2020 FBC
	B	04.16.21	GLAZING GASKET ADDED
	C	09.11.23	UPDATED TO 2023 FBC
date:	08-11-17	scale:	-
dr.	by:	TARIO	chk. by:
drawing no.	W17-71		
sheet	1 of 16		



SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.
SEE CHARTS ON SHEET 6 FOR HEAD OR SILL ANCHOR CAPACITY.
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.

TESTED DOOR ELEVATION (4 PANELS OR LESS)
OXXO (DOORS WITH HEAD RECEPTOR)
MAX. AREA NOT TO EXCEED 162.33 SQ. FT. PER FBC 2014

Sealed: 9/15/2023



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COMP-ANL W17-71ES

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revisions:

no	date	by	description

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dr. by: TARIQ
chk. by:

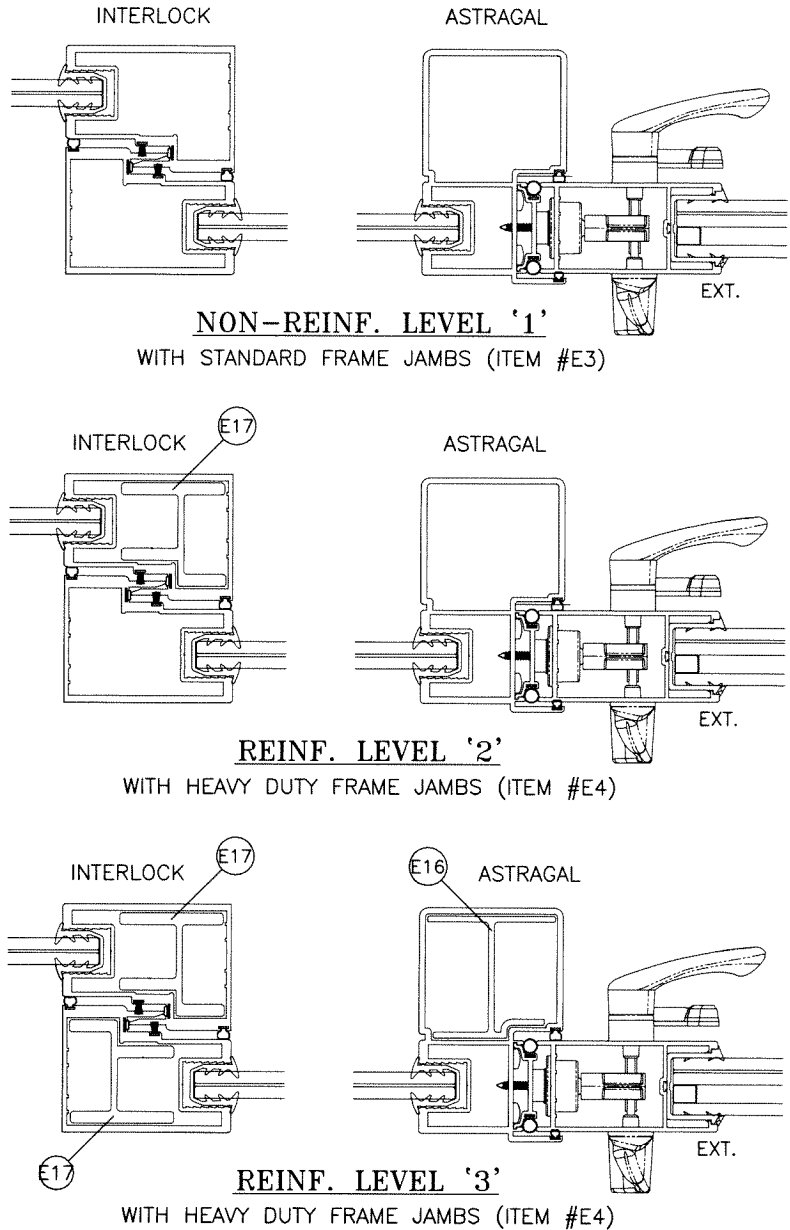
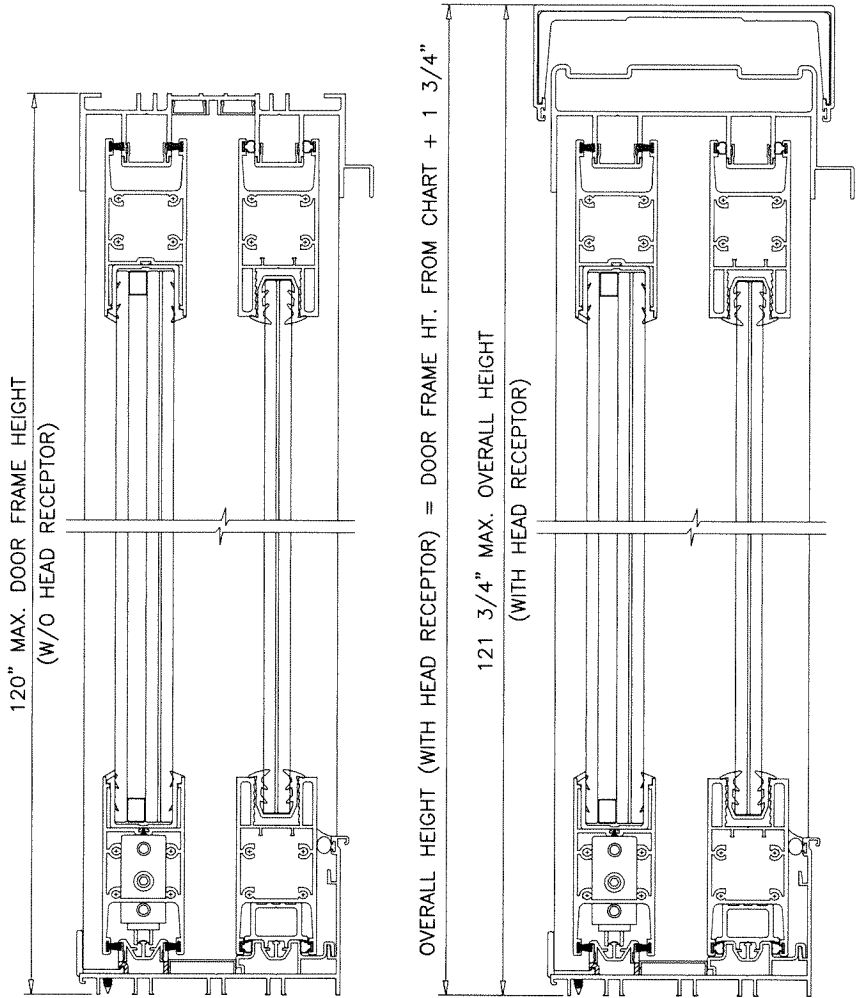
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DESIGN LOAD CAPACITY – PSF (WITH OR WITHOUT HEAD RECEPTOR)							
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	REINF. LEVEL '1'		REINF. LEVEL '2'		REINF. LEVEL '3'	
		GLASS 'C' & 'C1'		GLASS 'C' & 'C1'		GLASS 'C' & 'C1'	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36	82	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	96.3	105.0	120.0	135.0
54		85.0	85.0	85.6	93.3	106.7	120.0
60		85.0	85.0	77.0	84.0	96.0	108.0
36	84	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	96.3	105.0	120.0	135.0
54		85.0	85.0	85.6	93.3	106.7	120.0
60		85.0	85.0	77.0	84.0	96.0	108.0
36	90	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	96.3	105.0	120.0	135.0
54		85.0	85.0	85.6	93.3	106.7	120.0
60		85.0	85.0	–	–	96.0	108.0
36	96	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	96.3	105.0	120.0	135.0
54		85.0	85.0	–	–	106.7	120.0
60		85.0	85.0	–	–	96.0	108.0
36	102	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	96.3	105.0	120.0	135.0
54		85.0	85.0	–	–	106.7	120.0
60		85.0	85.0	–	–	–	–
36	108	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	–	–	120.0	135.0
54		85.0	85.0	–	–	–	–
60		85.0	85.0	–	–	–	–
36	114	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	–	–	120.0	135.0
54		85.0	85.0	–	–	–	–
60		85.0	85.0	–	–	–	–
36	120	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	–	–	120.0	135.0
54		85.0	85.0	–	–	–	–
60		85.0	85.0	–	–	–	–

NOTE:
 LIMIT MAX. CAPACITY OF DOORS USING SILICONE WRAPAROUND GASKET 'M14A'
 OR SAFLEX PVB INTERLAYER
 OR .035" SENTRYGLAS INTERLAYER
 TO +120.0, –125.0 PSF FOR ANY SIZE.

LIMIT ALL LOADS TO ±85 PSF WITH STANDARD JAMBS

CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.
 FOR DOORS WITH HEAD RECEPTORS OVERALL HEIGHT = DOOR FRAME HT. FROM CHART + 1–3/4".



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

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

Sealed: 9/15/2023



FL #23006

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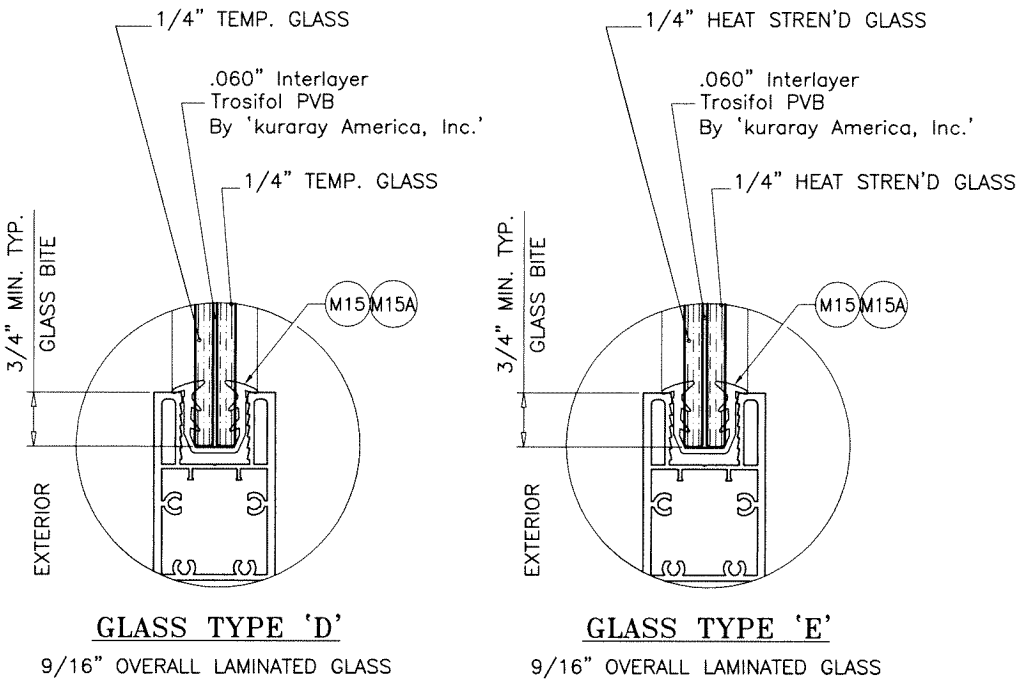
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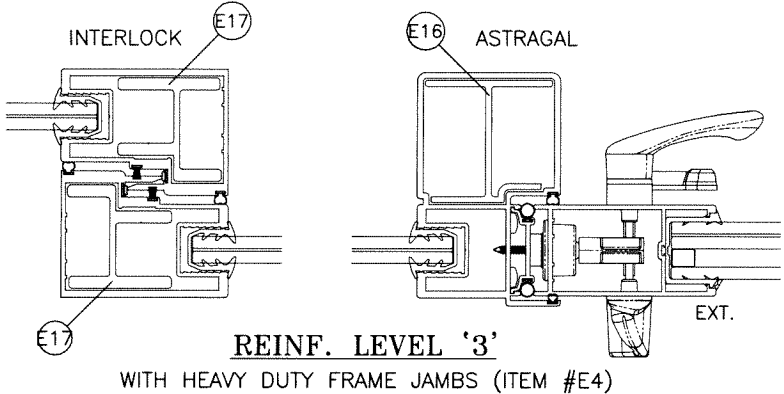
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DESIGN LOAD CAPACITY - PSF WITHOUT HEAD RECEPTOR 'XO' & 'OX' CONFIGURATIONS ONLY			
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	REINF. LEVEL '3'	
		GLASS 'D' & 'E'	
		EXT.(+)	INT.(-)
36	82	100.0	145.0
42		100.0	145.0
48		100.0	145.0
54		94.4	136.9
60		85.0	123.3
66		77.3	112.0
72		70.8	102.7
36	84	100.0	145.0
42		100.0	145.0
48		100.0	145.0
54		94.4	136.9
60		85.0	123.3
66		77.3	112.0
72		70.8	102.7
36	90	100.0	145.0
42		100.0	145.0
48		100.0	145.0
54		94.4	136.9
60		85.0	123.3
66	96	100.0	145.0
42		100.0	145.0
48		100.0	145.0
54		94.4	136.9
60		85.0	123.3
36	102	100.0	145.0
42		100.0	145.0
48		100.0	145.0
54		94.4	136.9
60		85.0	123.3
36	108	100.0	145.0
42		100.0	145.0
48		100.0	145.0
54		94.4	136.9
36	114	100.0	145.0
42		100.0	145.0
48		100.0	145.0
51		100.0	145.0
36	120	100.0	145.0
42		100.0	145.0
48		100.0	145.0
51		100.0	145.0

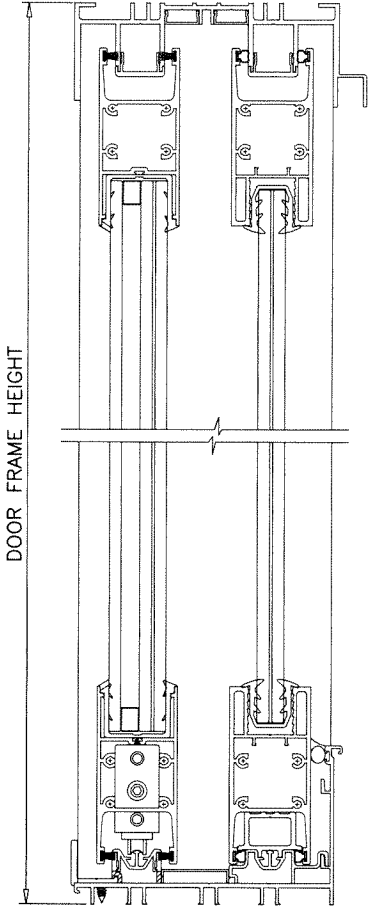


GLAZING OPTIONS



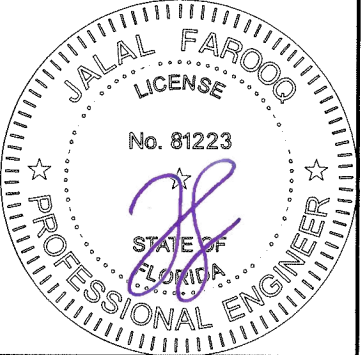
DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.

DESIGN LOAD CAPACITY - PSF WITHOUT HEAD RECEPTOR ALL CONFIGURATIONS SHOWN ON SHEET 7			
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	REINF. LEVEL '3'	
		GLASS 'D' & 'E'	
		EXT.(+)	INT.(-)
36	82	109.2	139.0
42		93.6	119.2
48		81.9	104.3
36	84	109.2	139.0
42		93.6	119.2
48		81.9	104.3
36	90	109.2	139.0
42		93.6	119.2
36	96	109.2	139.0
42		93.6	119.2
36	102	109.2	139.0
36	108	109.2	139.0
35-3/4	114-1/4	110.0	140.0



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

Sealed: 9/15/2023



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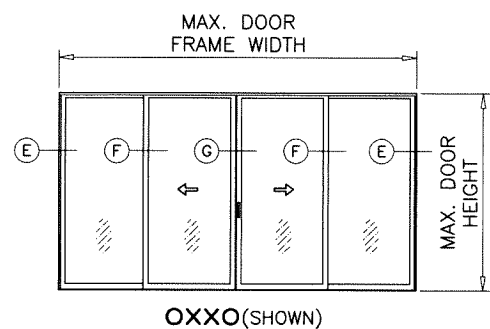
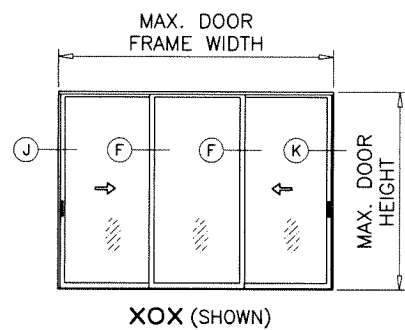
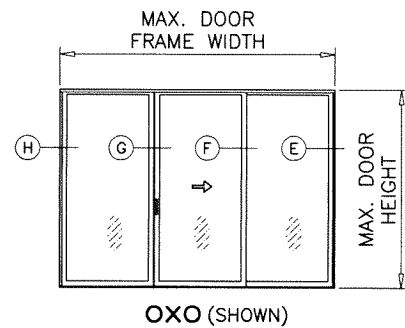
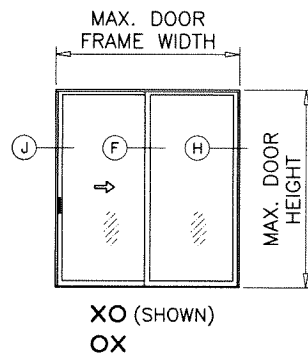
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HEAD ANCHOR LOAD CAPACITY - PSF (DOORS WITHOUT HEAD RECEPTOR) (APPLICABLE TO SHEET 2 ELEVATION)											
ANCHOR TYPE		ANCHOR TYPE 'AA'			ANCHOR TYPE 'BB'						TYPE 'CC'
SHIM SPACE		1/4" SHIM	3/8" MAX. SHIM		1/4" SHIM	3/8" MAX. SHIM		1/2" MAX. SHIM			3/8" SHIM
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	8 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	12 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	82	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
42		145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
48		145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
51		145.0	145.0	145.0	145.0	145.0	145.0	141.6	145.0	145.0	145.0
54		145.0	145.0	145.0	145.0	145.0	145.0	133.7	145.0	145.0	145.0
60		145.0	145.0	145.0	145.0	145.0	145.0	120.4	144.0	145.0	145.0
66		145.0	138.9	145.0	145.0	145.0	138.9	145.0	109.4	131.3	145.0
72		145.0	127.4	145.0	145.0	127.4	145.0	100.3	120.4	140.4	145.0
36	84	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
42		145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
48		145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
51		145.0	145.0	145.0	145.0	145.0	145.0	138.2	145.0	145.0	145.0
54		145.0	145.0	145.0	145.0	145.0	145.0	130.5	145.0	145.0	145.0
60		145.0	145.0	145.0	145.0	145.0	145.0	117.5	141.0	145.0	145.0
66		145.0	135.6	145.0	145.0	145.0	135.6	145.0	106.8	128.2	145.0
72		145.0	124.3	145.0	145.0	124.3	145.0	97.9	117.5	137.1	145.0
36	90	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
42		145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
48		145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
51		145.0	145.0	145.0	145.0	145.0	145.0	137.1	145.0	145.0	145.0
54		145.0	145.0	145.0	145.0	145.0	145.0	129.0	145.0	145.0	145.0
60		145.0	145.0	145.0	145.0	145.0	145.0	121.8	145.0	145.0	145.0
66		145.0	139.3	145.0	145.0	145.0	139.3	145.0	109.7	131.6	145.0
36	96	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
42		145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
48		145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
51		145.0	145.0	145.0	145.0	145.0	145.0	128.5	145.0	145.0	145.0
54		145.0	145.0	145.0	145.0	145.0	145.0	120.9	145.0	145.0	145.0
60		145.0	145.0	145.0	145.0	145.0	145.0	114.2	137.1	145.0	145.0
72			145.0	122.9	145.0	145.0	122.9	145.0	96.8	116.1	135.5
36	102	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
42		145.0	145.0	145.0	145.0	145.0	145.0	138.2	145.0	145.0	145.0
48		145.0	145.0	145.0	145.0	145.0	145.0	120.9	145.0	145.0	145.0
51		145.0	144.6	145.0	145.0	144.6	145.0	113.8	136.6	145.0	145.0
54		145.0	136.5	145.0	145.0	136.5	145.0	107.5	129.0	145.0	145.0
60		145.0	122.9	145.0	145.0	122.9	145.0	96.8	116.1	135.5	145.0
72			145.0	122.9	145.0	145.0	122.9	145.0	96.8	116.1	135.5
36	108	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
42		145.0	145.0	145.0	145.0	145.0	145.0	130.5	145.0	145.0	145.0
48		145.0	145.0	145.0	145.0	145.0	145.0	114.2	137.1	145.0	145.0
51		145.0	136.5	145.0	145.0	136.5	145.0	107.5	129.0	145.0	145.0
54		145.0	128.9	145.0	145.0	128.9	145.0	101.5	121.8	142.1	145.0
60		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
72			85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
36	114	145.0	145.0	145.0	145.0	145.0	145.0	144.3	145.0	145.0	145.0
42		145.0	145.0	145.0	145.0	145.0	145.0	123.7	145.0	145.0	145.0
48		145.0	137.4	145.0	145.0	137.4	145.0	108.2	129.9	145.0	145.0
51		145.0	129.3	145.0	145.0	129.3	145.0	101.8	122.2	142.6	145.0
54		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
60		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
72			85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
35-3/4	114-1/4	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0
36	120	145.0	145.0	145.0	145.0	145.0	145.0	137.1	145.0	145.0	145.0
42		145.0	145.0	145.0	145.0	145.0	145.0	117.5	141.0	145.0	145.0
48		145.0	130.6	145.0	145.0	130.6	145.0	102.8	123.4	143.9	145.0
51		145.0	122.9	145.0	145.0	122.9	145.0	96.8	116.1	135.5	145.0
54		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
60		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
72			85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
		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	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

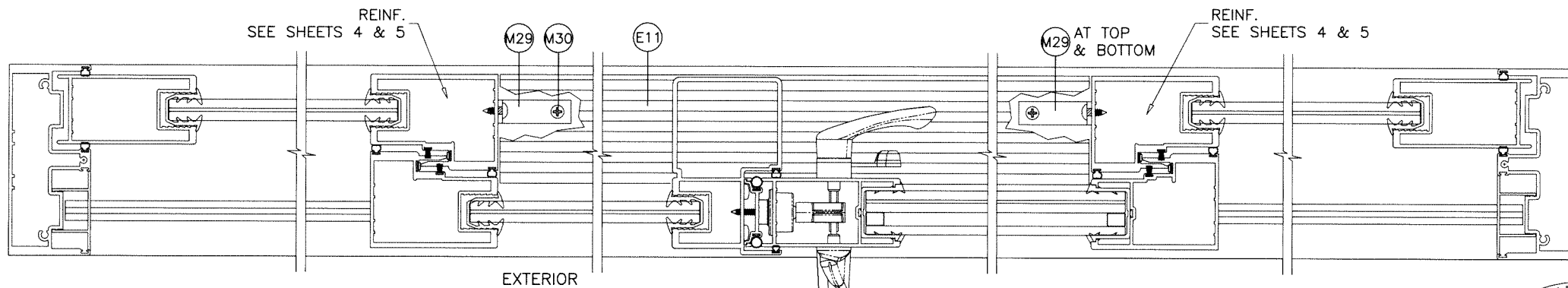
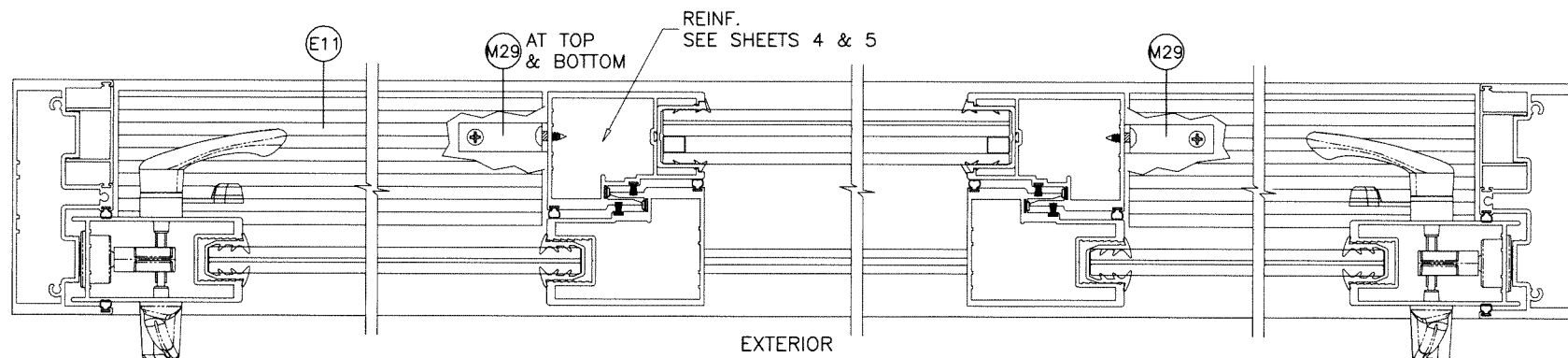
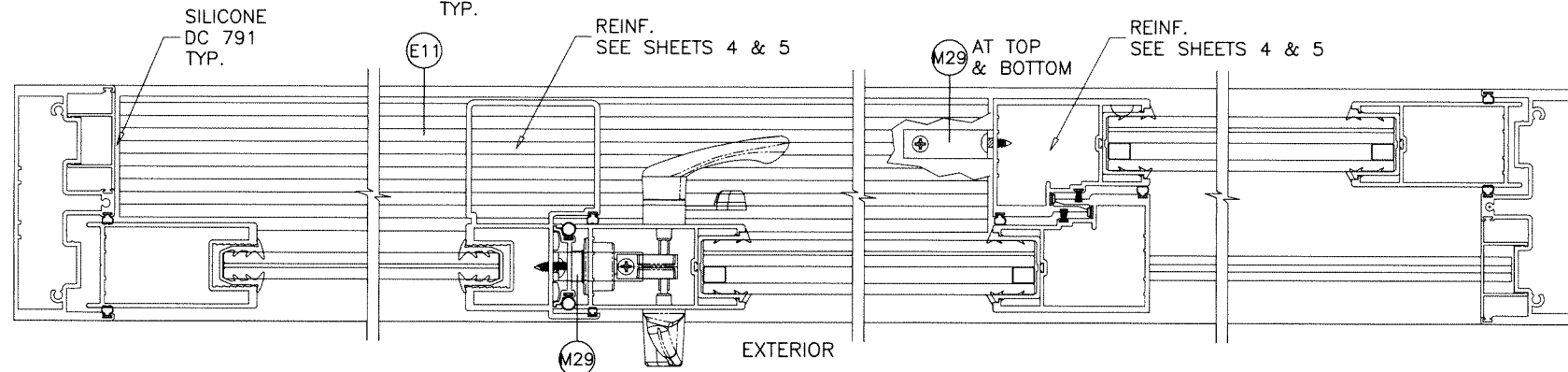
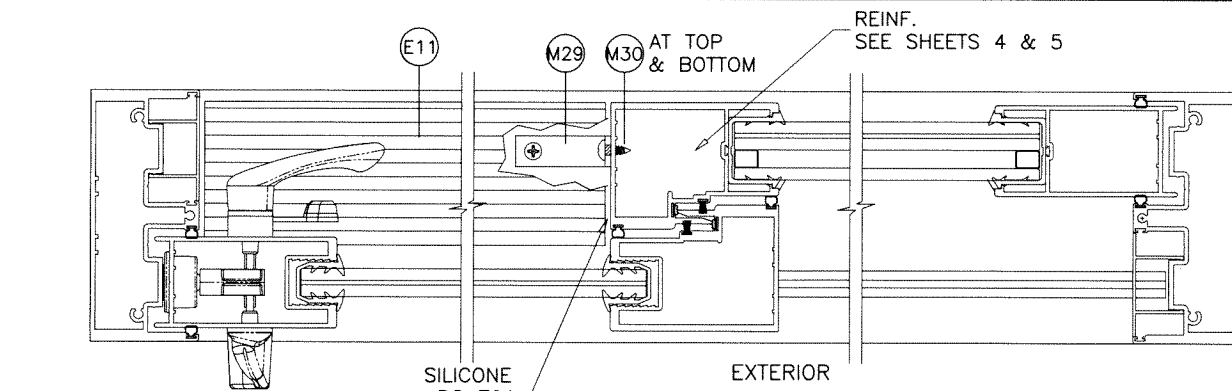
SILL ANCHOR LOAD CAPACITY - PSF (DOORS WITH OR WITHOUT HEAD RECEPTOR)			
ANCHOR TYPE		ANCHOR TYPE 'BB'	
SHIM SPACE		1/4" SHIM	
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	7 ANCHORS AT MTG. STILE ENDS	
		EXT. (+) INT. (-)	
36	82	145.0	
42		145.0	
48		145.0	
51		145.0	
54		145.0	
60		145.0	
66		145.0	
72		145.0	
36	84	145.0	
42		145.0	
48		145.0	
51		145.0	
54		145.0	
60		145.0	
66		145.0	
72		145.0	
36	90	145.0	
42		145.0	
48		145.0	
51		145.0	
54		145.0	
60		145.0	
66		145.0	
72		145.0	
36	96	145.0	
42		145.0	
48		145.0	
51		145.0	
54		145.0	
60		145.0	
36	102	145.0	
42		145.0	
48		145.0	
51		145.0	
54		145.0	
60		145.0	
36	108	145.0	
42		145.0	
48		145.0	
51		145.0	
54		145.0	
60		85.0	
36	114	145.0	
42		145.0	
48		145.0	
51		145.0	
54		85.0	
60		85.0	
35-3/4	114-1/4	140.0	
36	120	145.0	
42		145.0	
48		145.0	
51		145.0	
54		85.0	
60		85.0	
		4 ANCHORS AT FREE STANDING JAMB ENDS	

HEAD ANCHOR LOAD CAPACITY – PSF (DOORS WITH HEAD RECEPTOR) (APPLICABLE TO SHEET 3 ELEV. & SHEET 11 DETAIL)			
ANCHOR TYPE		ANCHOR TYPE 'AAA' (SHEET 11)	
SHIM SPACE		1/4" MAX. SHIM	
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)
36	82	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	84	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	90	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	96	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		108.0	108.0
36	102	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		120.0	120.0
60		85.0	85.0
36	108	135.0	135.0
42		135.0	135.0
48		135.0	135.0
54		85.0	85.0
60		85.0	85.0
36	114	135.0	135.0
42		135.0	135.0
48		134.0	135.0
54		85.0	85.0
60		85.0	85.0
36	120	135.0	135.0
42		135.0	135.0
48		126.0	135.0
54		85.0	85.0
60		85.0	85.0
		4 ANCHORS AT FREE STANDING JAMB ENDS	5 ANCHORS AT FREE STANDING JAMB ENDS



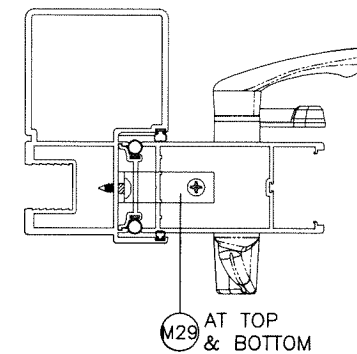
APPROVED CONFIGURATIONS

MAX. 4 PANELS OR LESS
 MAX. FRAME AREA NOT TO EXCEED 200 SQ. FT. (DOORS WITHOUT HEAD RECEPTORS)
 MAX. FRAME AREA NOT TO EXCEED 162.33 SQ. FT. (DOORS WITH HEAD RECEPTORS)



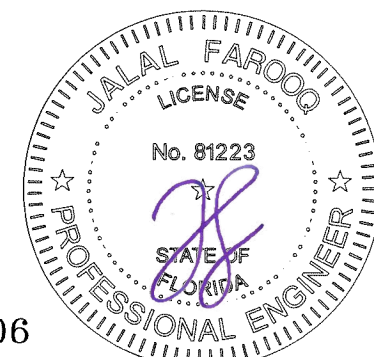
NOTE:

1. OPERABLE PANEL TO BE ON EXTERIOR TRACKS WITH SAFEGUARD.
2. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
3. FOR APPLICABLE DESIGN PRESSURES AND REINFORCEMENTS REQUIREMENTS SEE SHEETS 4 & 5.
4. FOR ANCHOR DETAILS SEE SHEETS 9 THRU 13.



FOR UNANCHORED JAMBS
 USE ES-6500-004 ONLY

Sealed: 9/15/2023



FL #23006

afc

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 ALUM SLIDING GLASS 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

date:	08-11-17
scale:	-
dr. by:	TARIQ
chk. by:	

drawing no.
W17-71
 sheet 7 of 16

COMP-ANL W17-71ES

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-6600-001	1	STANDARD FRAME HEAD	6005-T6	-
E2	ES-6600-002	1	FRAME SILL	6063-T6	-
E3	ES-6600-003	2	STANDARD FRAME JAMB	6063-T6	LIMIT MAX. LOADS TO ±85 PSF
E4	ES-6600-004	2	HEAVY DUTY FRAME JAMB	6063-T6	-
E5	ES-6600-005	2/ PANEL	TOP AND BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	-
E6	ES-6600-006	1/ PANEL	LOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E7	ES-6600-007	1/ PANEL	INTERLOCK STILE (INSUL. LAM. GLASS)	6005-T5	-
E8	ES-6600-008	1	ASTRAGAL STILE (INSUL. LAM. GLASS)	6005-T5	-
E9	ES-6600-009	1	ASTRAGAL ADAPTER	6063-T6	-
E10	ES-6600-010	1	ADD-ON TRACK	6063-T6	-
E11	ES-6600-011	1	THRESHOLD (LENGTH = OPNG WIDTH BETWEEN FIXED OANELS)	6063-T6	-
E12	ES-6600-012	2	SNAP-IN JAMB COVER (OPTIONAL)	6063-T5	-
E13	ES-6600-013	1	TRACK INSERT	6063-T6	-
E14	ES-6600-014A	-	RETAINER CLIP, 4" LONG	6063-T6	-
E15	ES-6600-015	AS REQD.	SCREEN RAIL	6063-T6	-
E16	ES-6600-016	AS REQD.	ASTRAGAL REINFORCEMENT, FULL LENGTH	6005-T5	-
E17	ES-6600-017	AS REQD.	INTERLOCK REINFORCEMENT, FULL LENGTH	6005-T5	-
E18	ES-6600-018	AS REQD.	HEAD COVER (OPTIONAL)	6063-T5	-
E22	ES-6011	AS REQD.	SCREW COVER (OPTIONAL)	6063-T6	-
E24	ES-6600-019	1	HEAD RECEPTOR	6063-T5	-
E25	ES-6600-020	1	RECEPTOR REINFORCEMENT, FULL LENGTH	6063-T5	-
E26	ES-6600-021	1	FRAME HEAD AT RECEPTOR	6005-T5	-
E27	ES-6600-023	1/ PANEL	LOCK STILE (LAM. GLASS)	6063-T6	-
E28	ES-6600-024A	2/ PANEL	TOP AND BOTTOM RAIL (LAM. GLASS)	6063-T6	-
E29	ES-6600-025	1/ PANEL	INTERLOCK STILE (LAM. GLASS)	6005-T5	-
E30	ES-6600-027	1	SILL SCREW COVER	6063-T5	-
E31	ES-6600-026	1	ASTRAGAL STILE (LAM. GLASS)	6005-T5	-
E32	ES-6600-033	2	FIXED PANEL BOTTOM GUIDE	6063-T5	-
M1	#12 X 1 1/2"	3/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M2	#10 X 1 1/4"	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, TREMCO
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 70±5 SHORE A, TREMCO
M15A	ES-6600-G02A	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, TREMCO
M17	Q300T190	AS REQD.	FABRIC COATED FOAM WEATHERSEAL	POLYETHYLENE	Q-LONG
M18	Q200T190	AS REQD.	WEATHERSEAL EXTERIOR	POLYETHYLENE	Q-LONG
M19	Q150T270	AS REQD.	INTERLOCK BUMPER	POLYETHYLENE	Q-LONG
M20	W2230012K	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M21	GTT-234/460-02-A	2/ PANEL	ROLLER	-	PABOSE
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	#14 X 1"	2/ CLIP	FIX. PANEL ANGLE FASTENERS	-	HWH SMS
M31	ES-5008	AS REQD.	BULB W'STRIPPING	EPDM	DUROMETER 70±5 SHORE A
M32	ES-6600-S01	-	1/4" SPACER FOR JAMB	NYLON	-
M33	ES-6600-S02	-	1/2" SPACER FOR ASTRAGAL	NYLON	-
M35	P6304 AFK	-	ADHESIVE PILE PAD (4" X 1" X 1/2")	-	ULTRAFAB
M36	W73341NK000B	AS REQD.	THRESHOLD WEATHERSEAL	PILE	-
M37	ES-6500-301	AS REQD.	BOTTOM SPACER	POLYPROPYLENE	SECURED WITH VHB TAPE

Sealed: 9/15/2023



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AL-FAROOQ CORPORATION
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SERIES ES-6600 ALUM SLIDING GLASS DOOR (S.M.I.)

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revisions:
no date by description

date: 08-11-17

scale: -

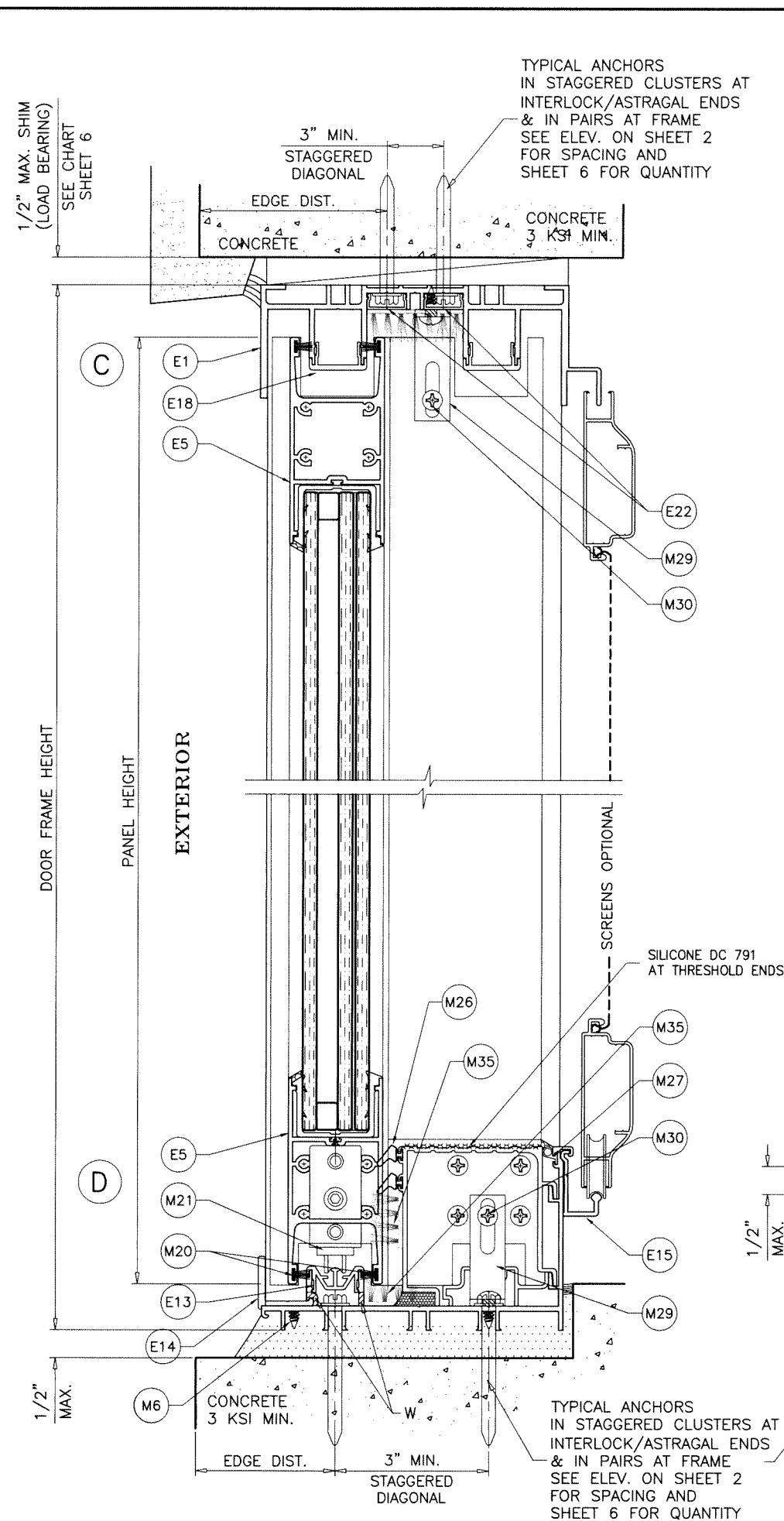
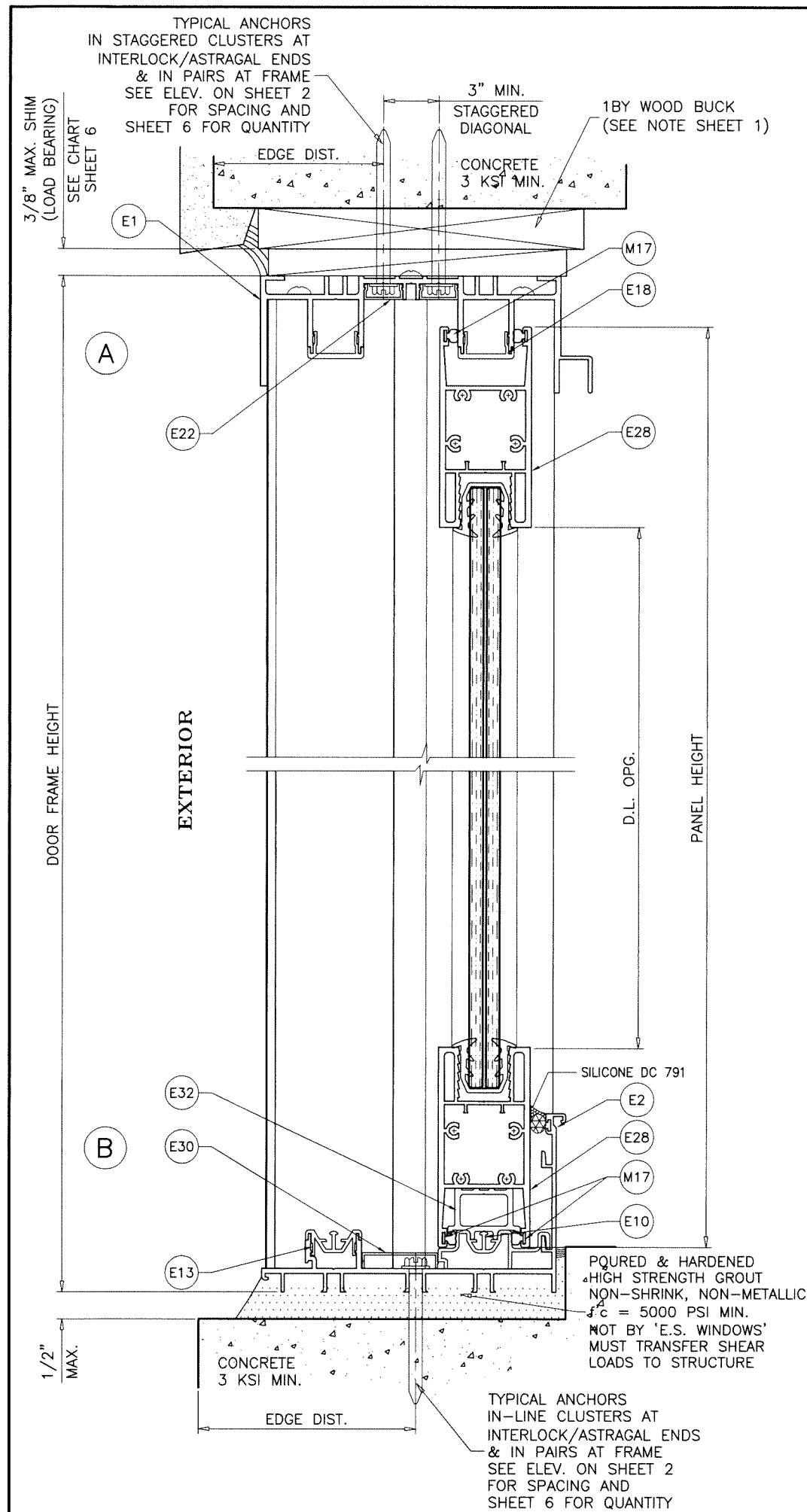
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drawing no.
W17-71

sheet **8** of **16**

COMP-ANL\W17-71ES



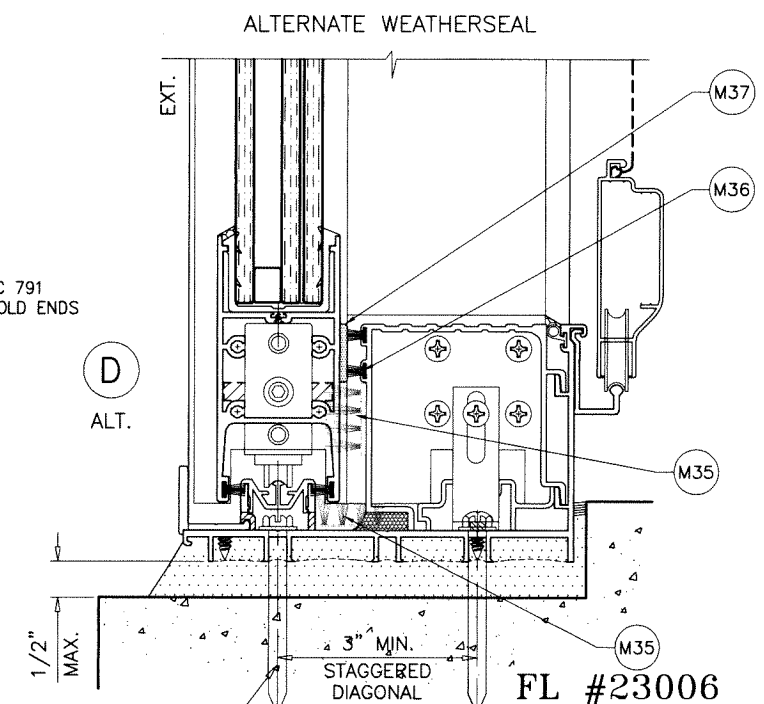
UNITS WITHOUT HEAD RECEPTORS

SEALANT:

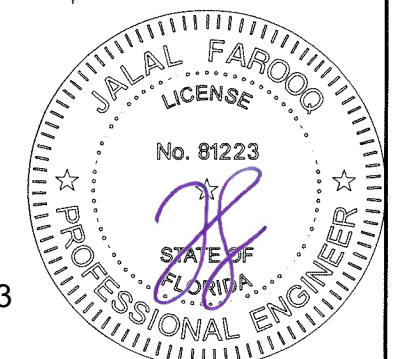
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

WEEPHOLES:

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



Sealed: 9/15/2023



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revisions:	no	date	by	description
date:	08-11-17			
scale:	3/8" = 1"			
dr. by:	TARIQ			
chk. by:				
drawing no.	W17-71			
sheet	9 of 16			

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 'AA'— 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 'BB'— 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)

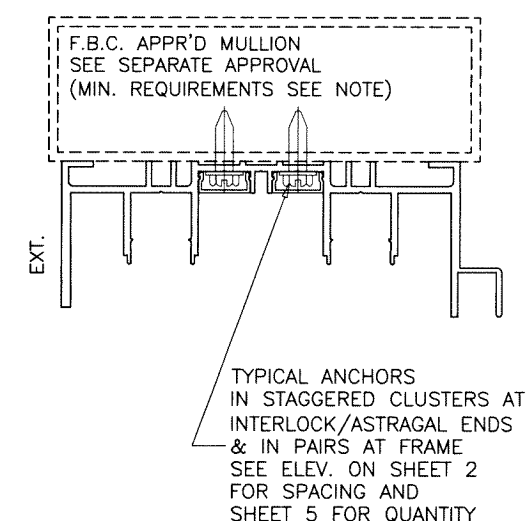
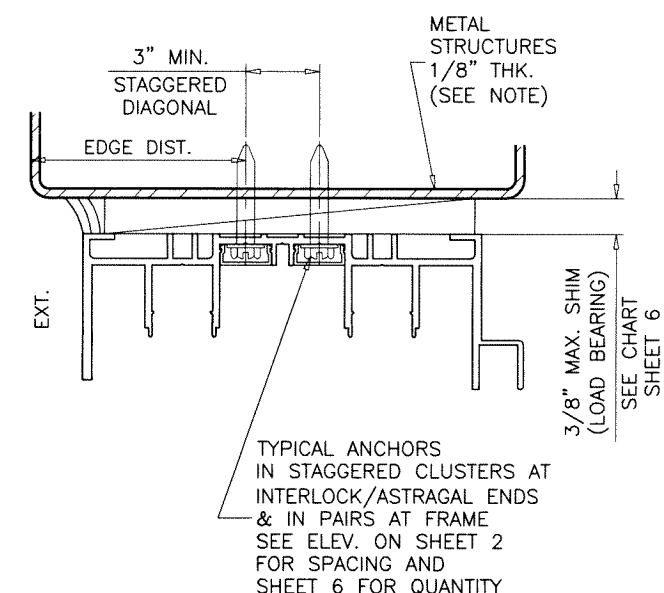
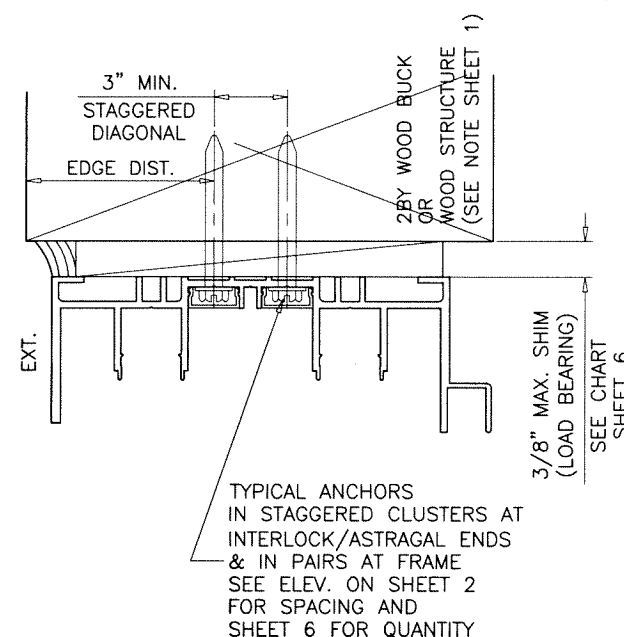
- TYPE 'BB'— 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED

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
1-1/2" MIN. EMBED
- 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 UNITS WITHOUT HEAD RECEPTORS
SEE SHEET 11 FOR UNITS WITH HEAD RECEPTORS



Sealed: 9/15/2023

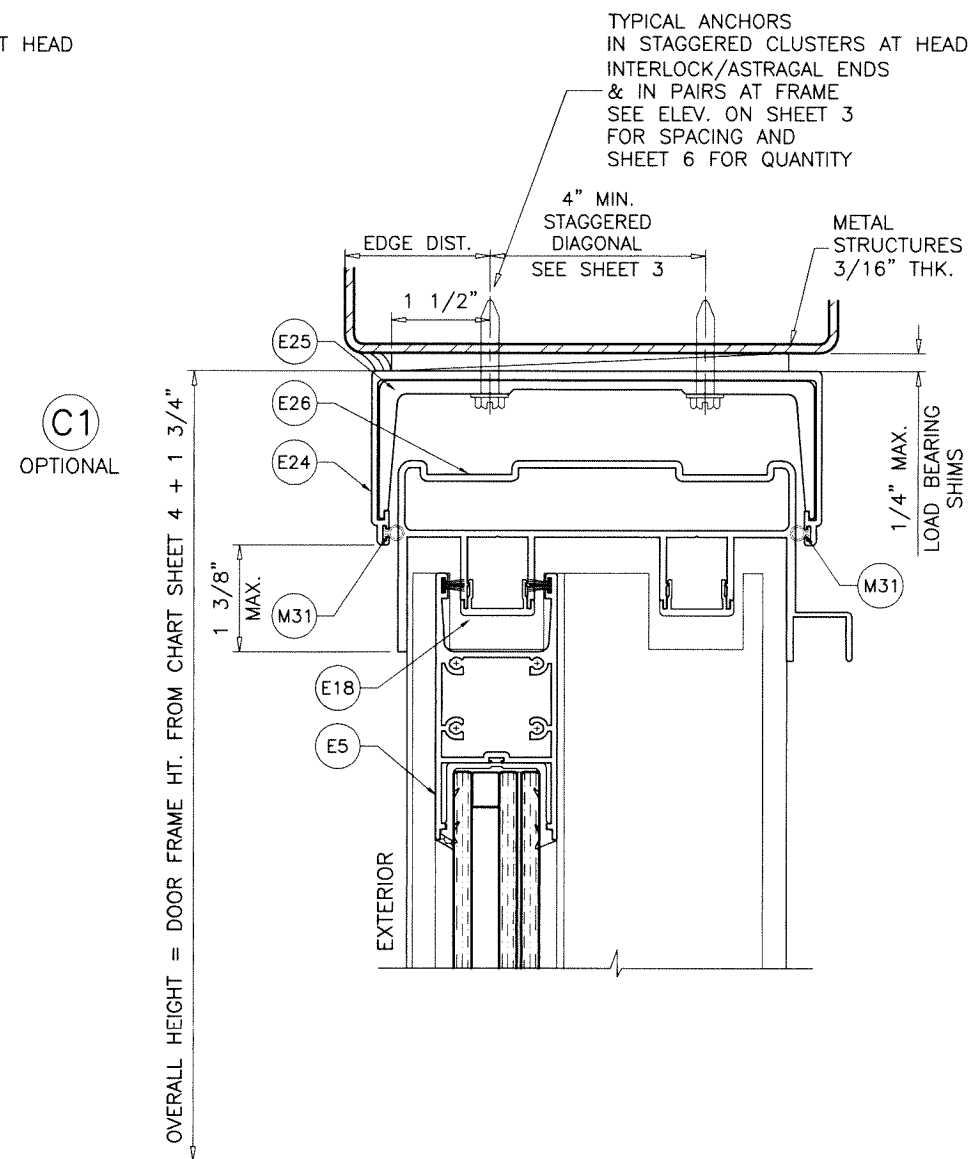
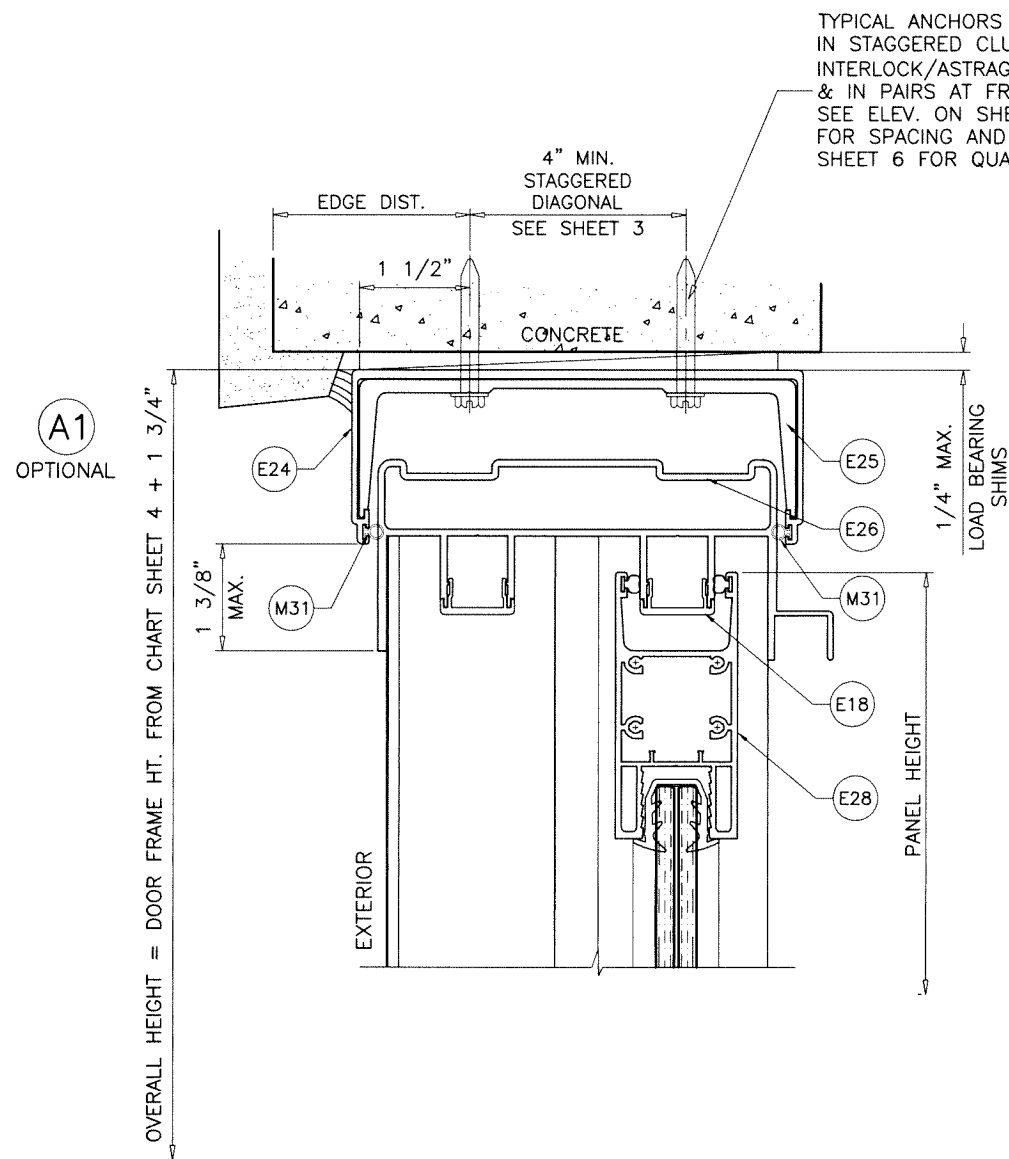
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date:	08-11-17	scale:	3/8" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	W17-71		
sheet	10 of 16		

COMP-ANL W17-71ES



UNITS WITH HEAD RECEPTORS

HEAD RECEPTOR MOUNT SHOWN, SEE ELEVATION IN SHEET 3
AND ANCHOR CAPACITY CHART IN SHEET 6

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

— AT HEAD (FOR DOORS WITH RECEPTOR) —

TYPE 'AAA'— **5/16\" DIA. ULTRACON BY 'DEWALT'** (Fu=177 KSI, Fy=155 KSI)

DIRECTLY INTO CONCRETE

1-3/4\" MIN. EMBED

1/4\" DIA. 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)

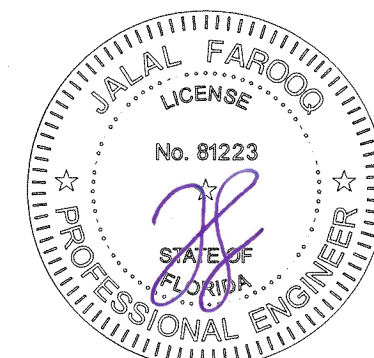
ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-3/16\" MIN.

INTO METAL STRUCTURE = 1-1/2\" MIN.

CONCRETE AT HEAD/SILL f'c = 3000 PSI MIN.

FL #23006



Sealed: 9/15/2023

afc

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

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

E.S. WINDOWS, LLC

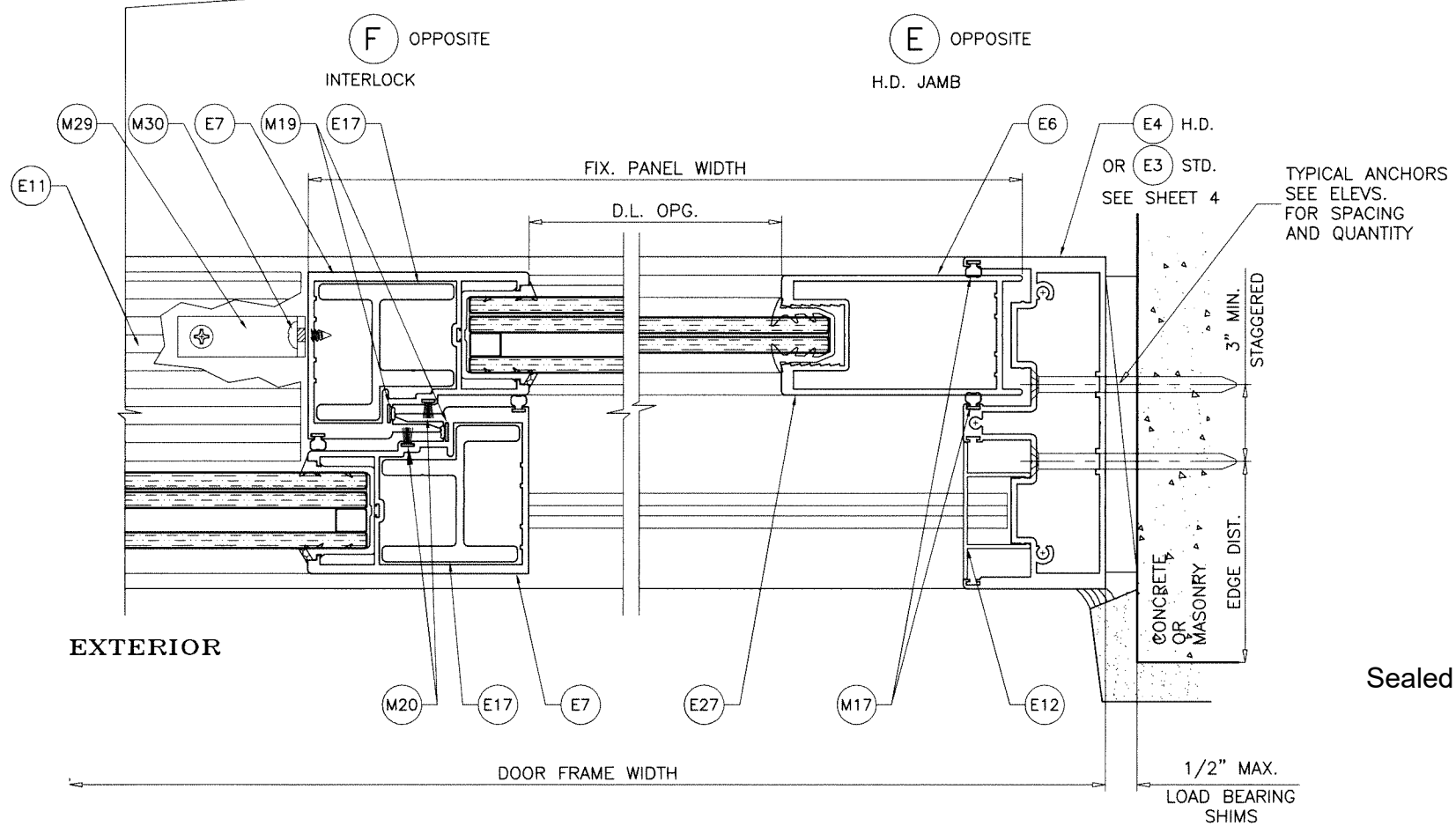
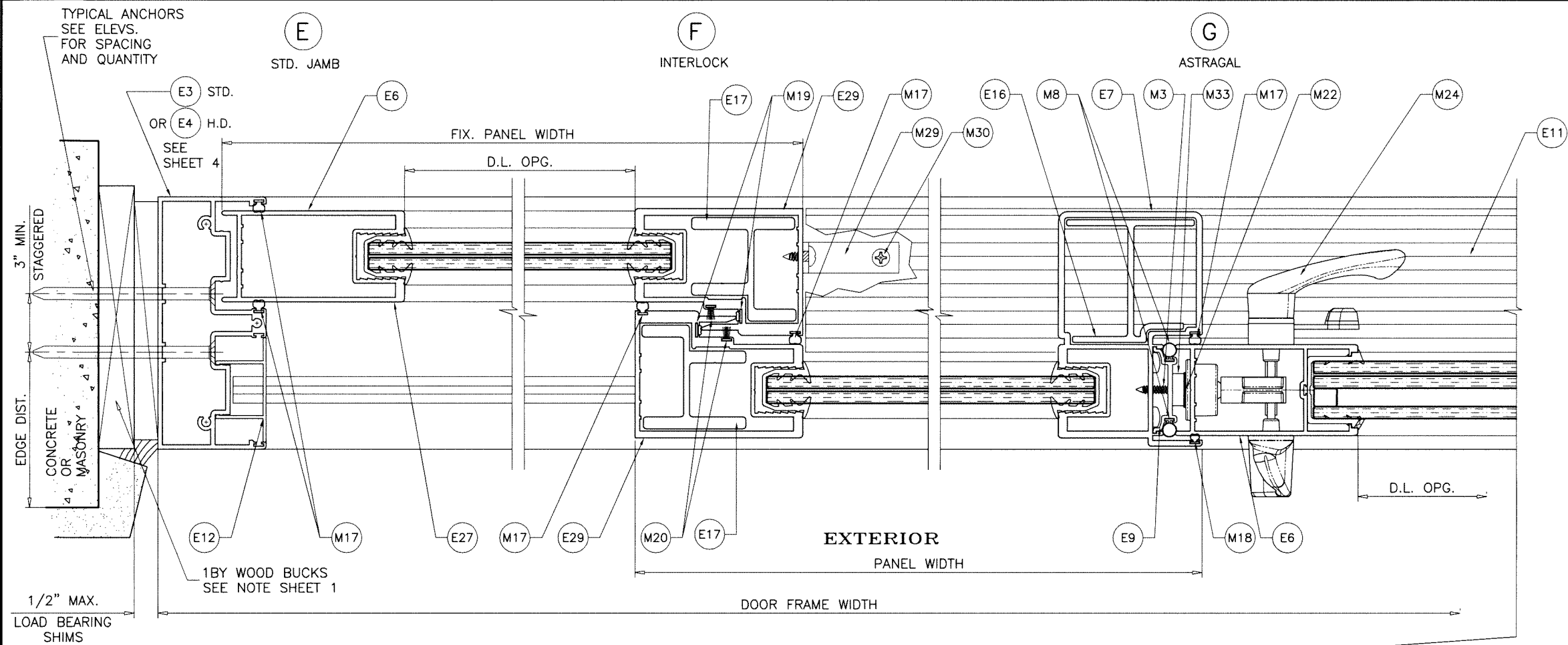
3550 N.W. 49 STREET

MIAMI, FL. 33142

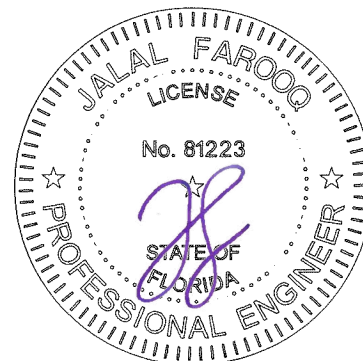
TEL. (305) 638-5151 FAX. (305) 638-5158

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chk. by:			
drawing no.	W17-71		
sheet	11 of 16		

COMP-ANL W17-71ES



Sealed: 9/15/2023



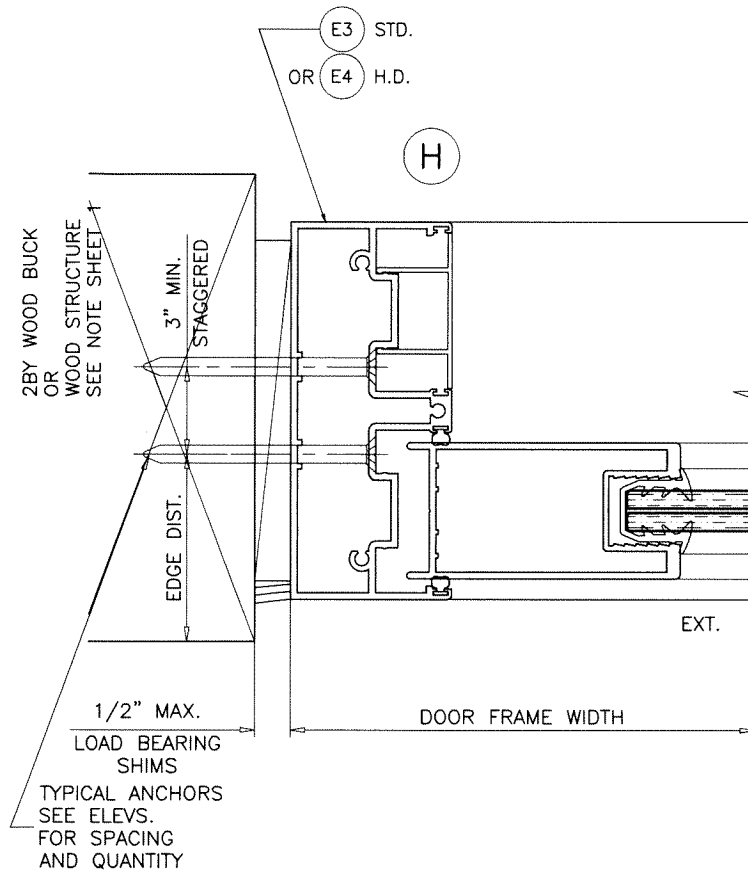
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COMP-ANL\W17-71ES

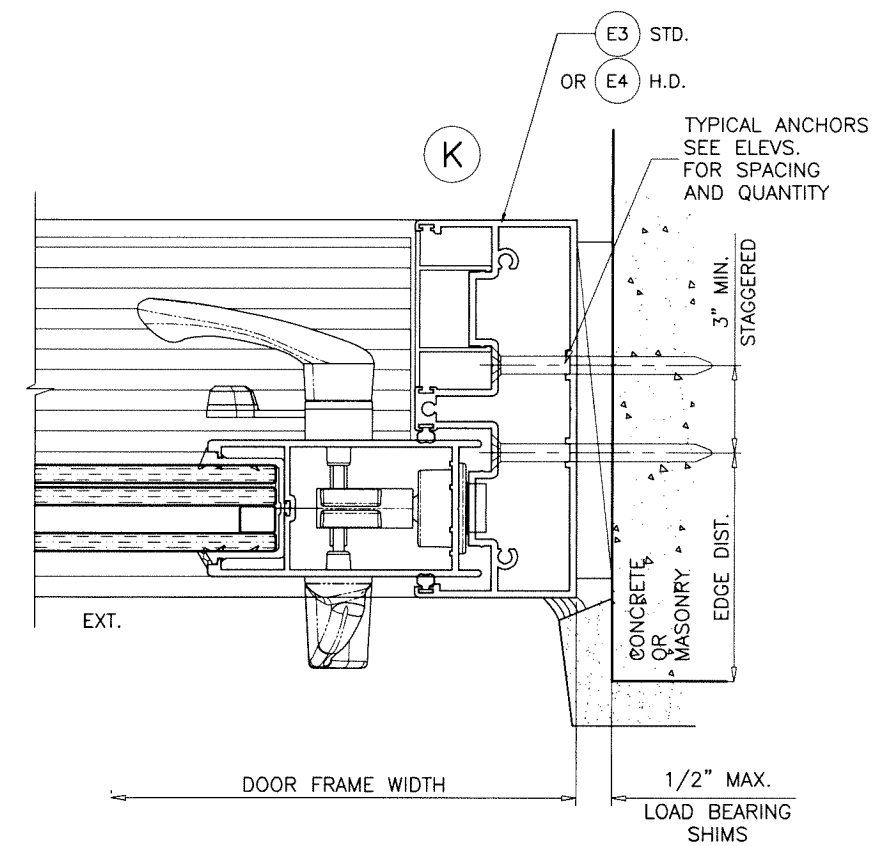
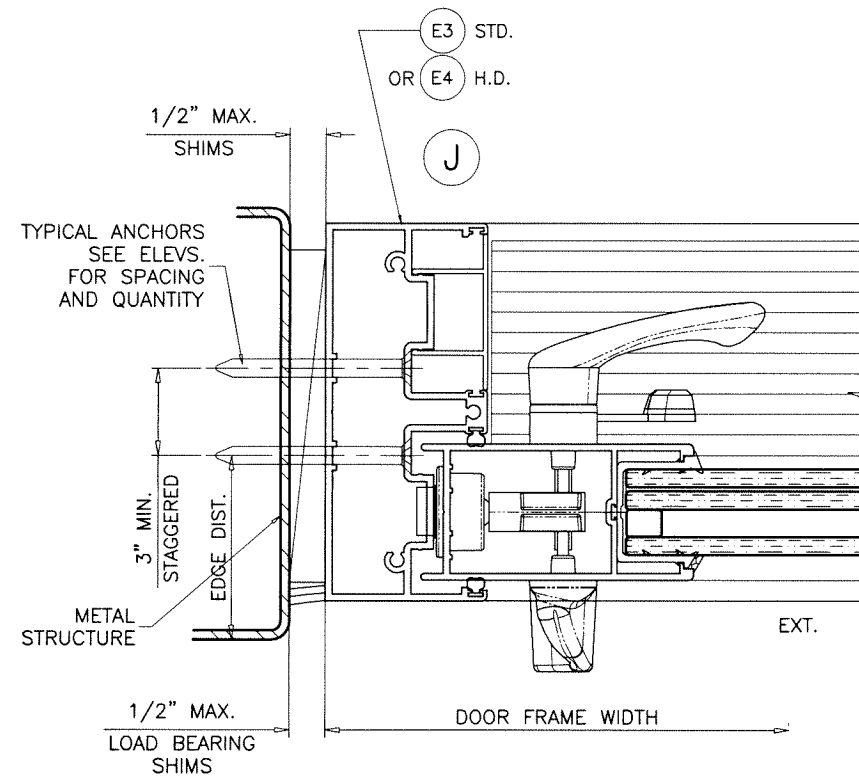
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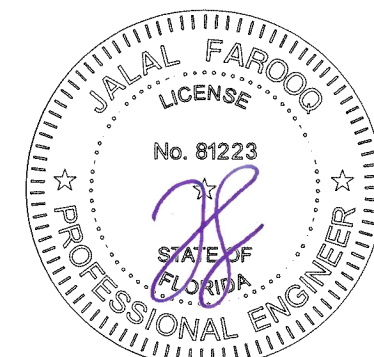


FIXED PANEL:
SEE HEAD/SILL CLIP ANGLE DETAIL ON SHEET 7 & 9

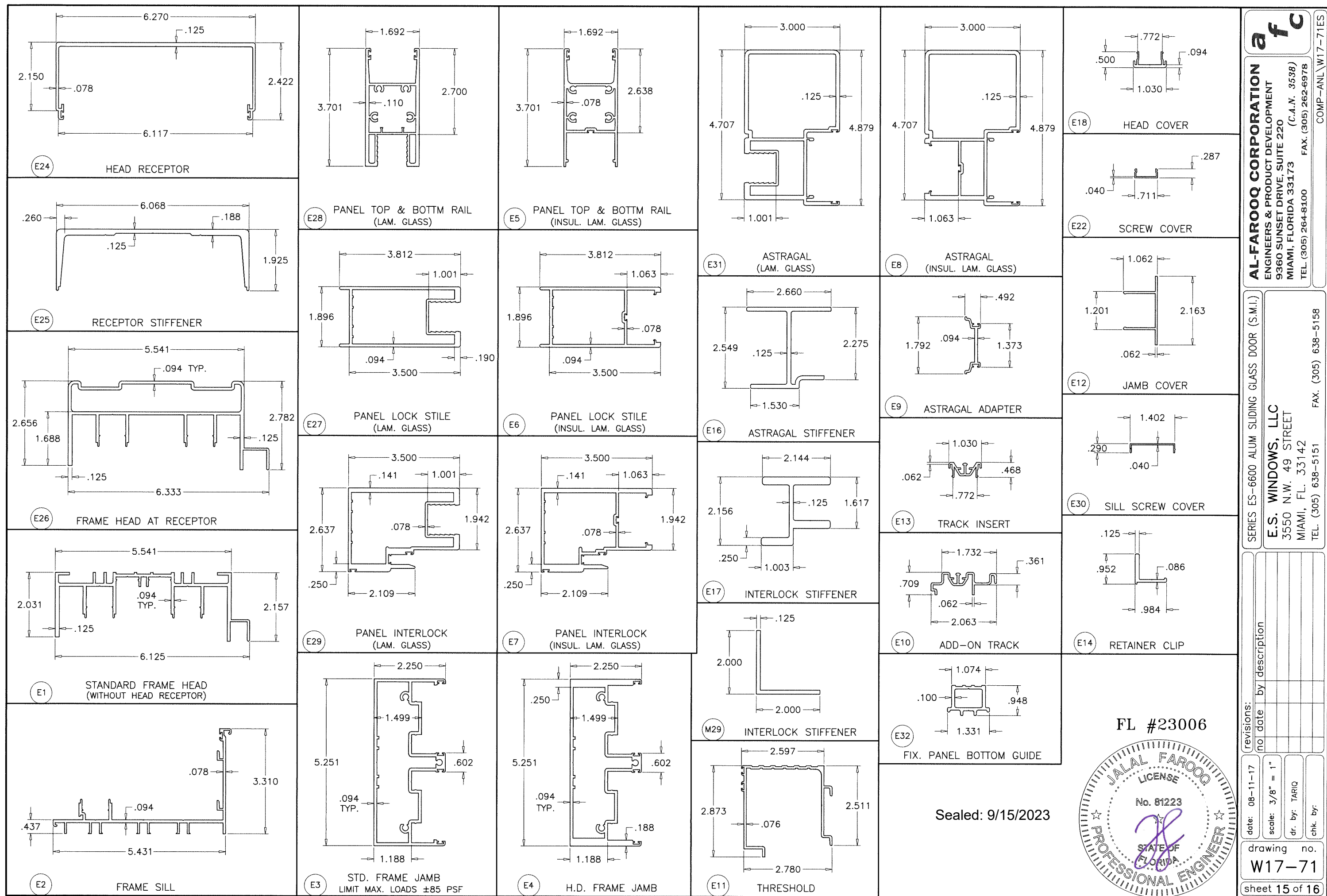


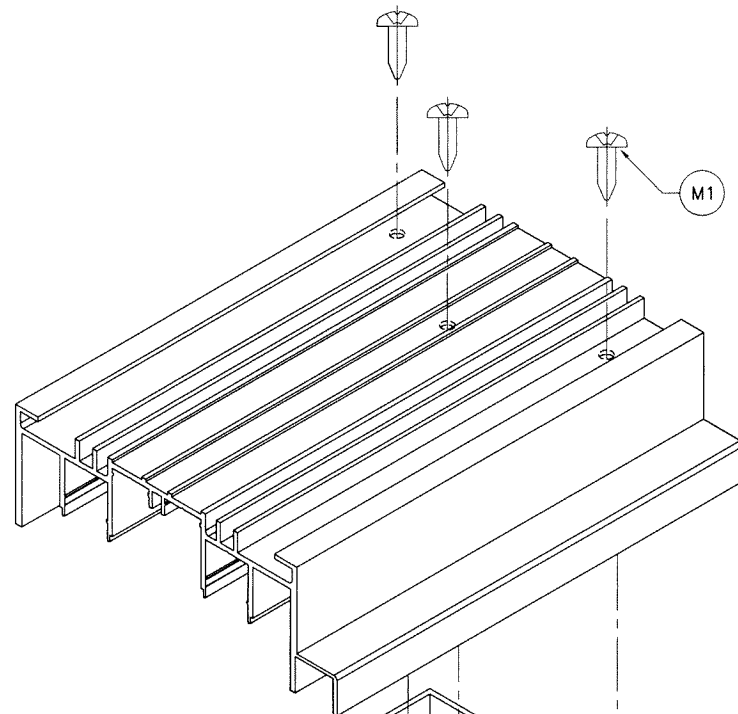
FL #23006

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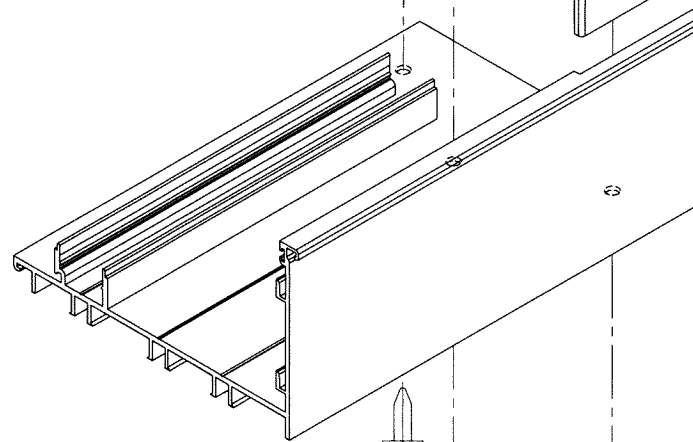
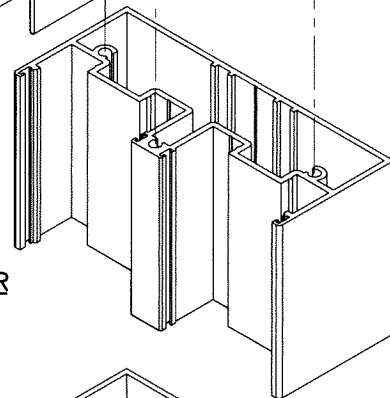
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 COMP-ANL W17-71ES	
SERIES ES-6600 ALUM SLIDING GLASS DOOR (S.M.I.)	
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chk. by:	drawing no. W17-71
sheet 13 of 16	





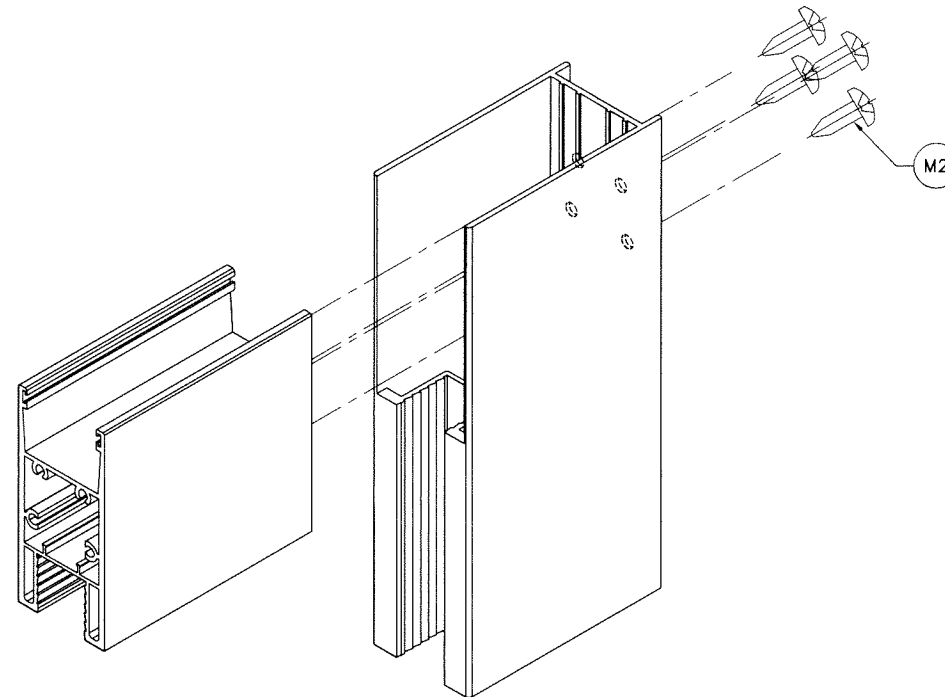
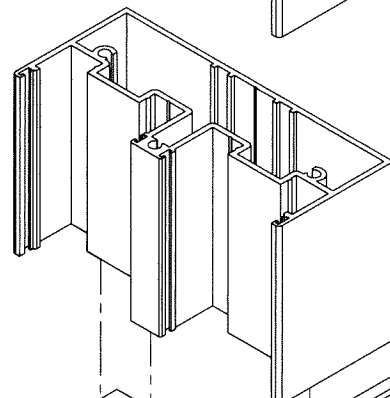
FRAME TOP CORNER

STD. JAMB (SHOWN)
H.D. JAMB (SIMILAR)



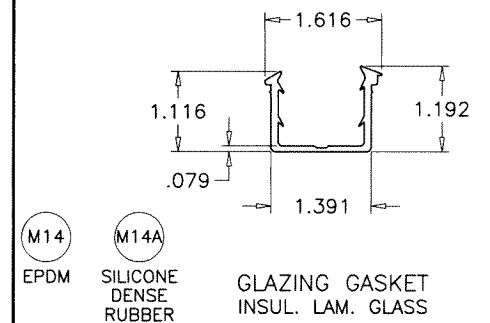
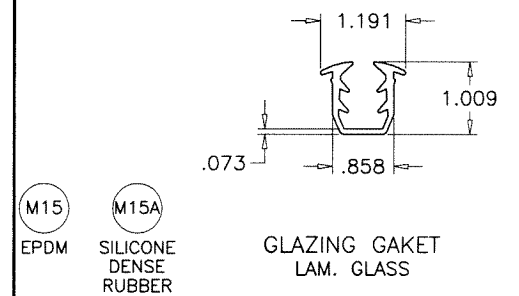
FRAME BOTTOM CORNER

STD. JAMB (SHOWN)
H.D. JAMB (SIMILAR)



PANEL TOP/BOTTOM CORNER

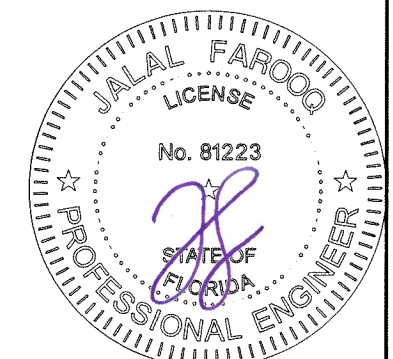
LAM. GLASS RAIL & STILE (SHOWN)
INSUL. LAM. GLASS RAIL & STILE (SIMILAR)



M14 M15 BASE POLYMER = EPDM RUBBER
HARDNESS = 70±5

M14A M15A MATERIAL = SILICONE DENSE RUBBER
HARDNESS = 65±5

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