

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)

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 SHEET 4 FOR THE GLASS TYPE AND REINFORCING TO USE.
- STEP 3** USING CHARTS ON SHEETS 5 FOR DOORS WITHOUT HEAD RECEPTOR, SHEET 6 FOR DOORS WITH HEAD RECEPTOR AND CHARTS ON SHEET 6 FOR SILL ANCHORS 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 LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

**SERIES ES-6500
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.

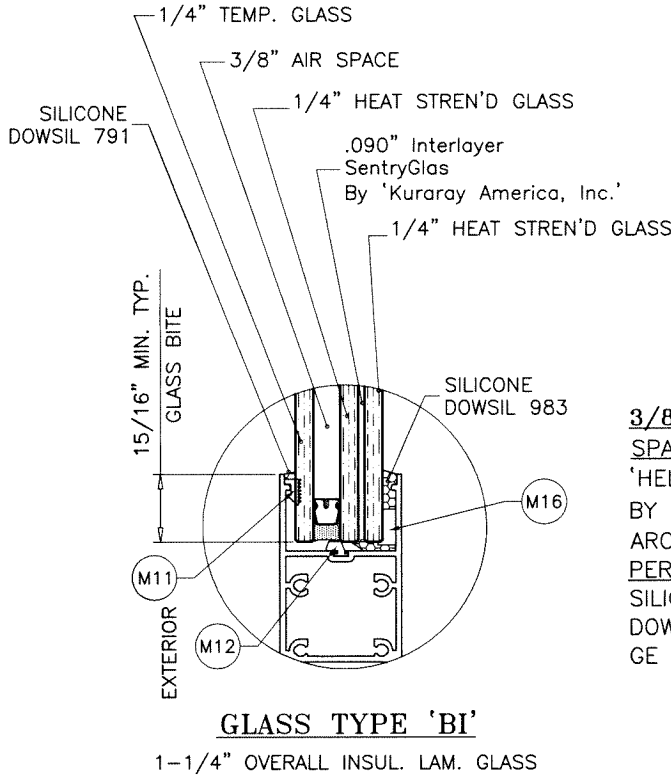
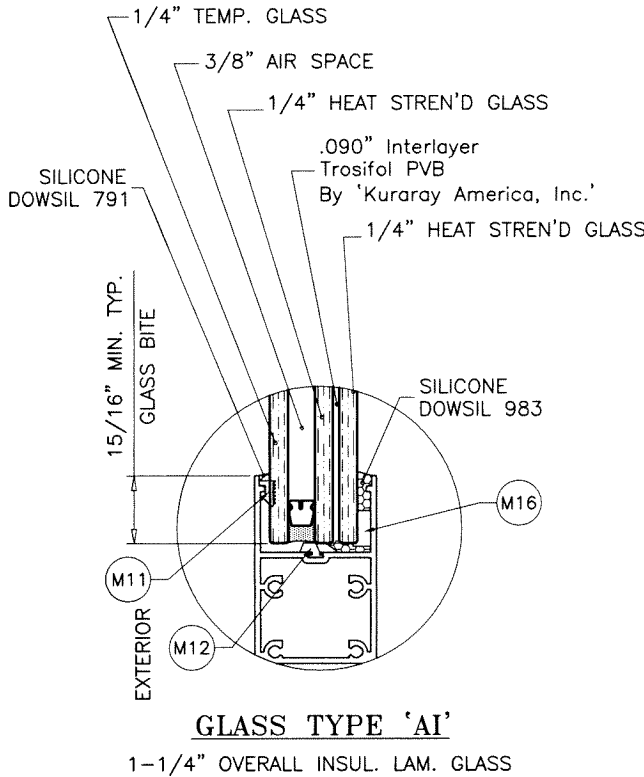
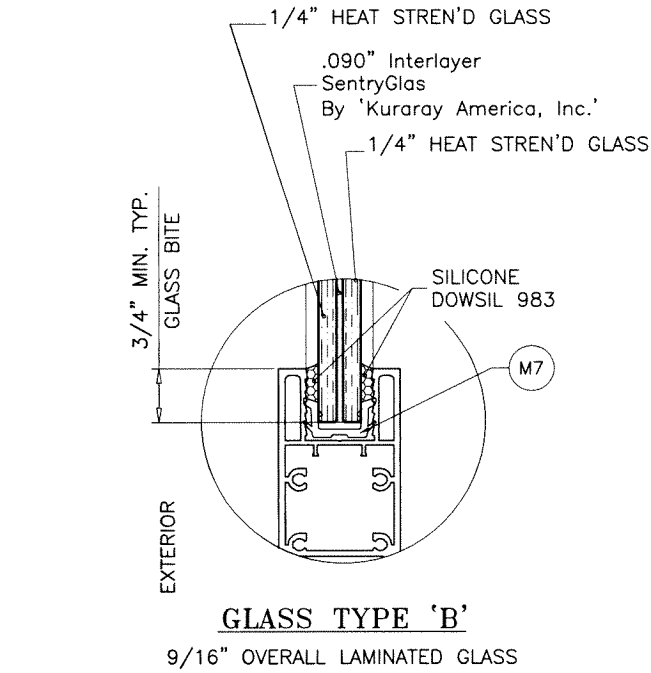
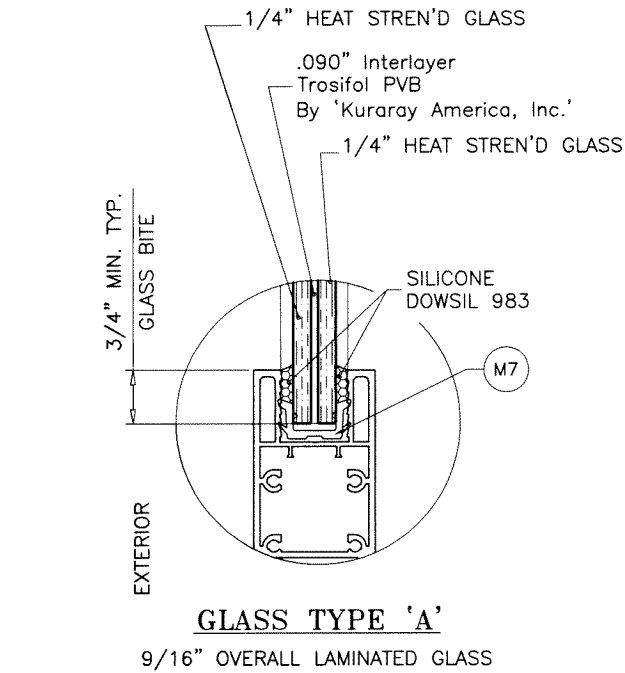
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.



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

**LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT**

GLAZING OPTIONS

Sealed: 9/15/2023

FL #17893

- 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.



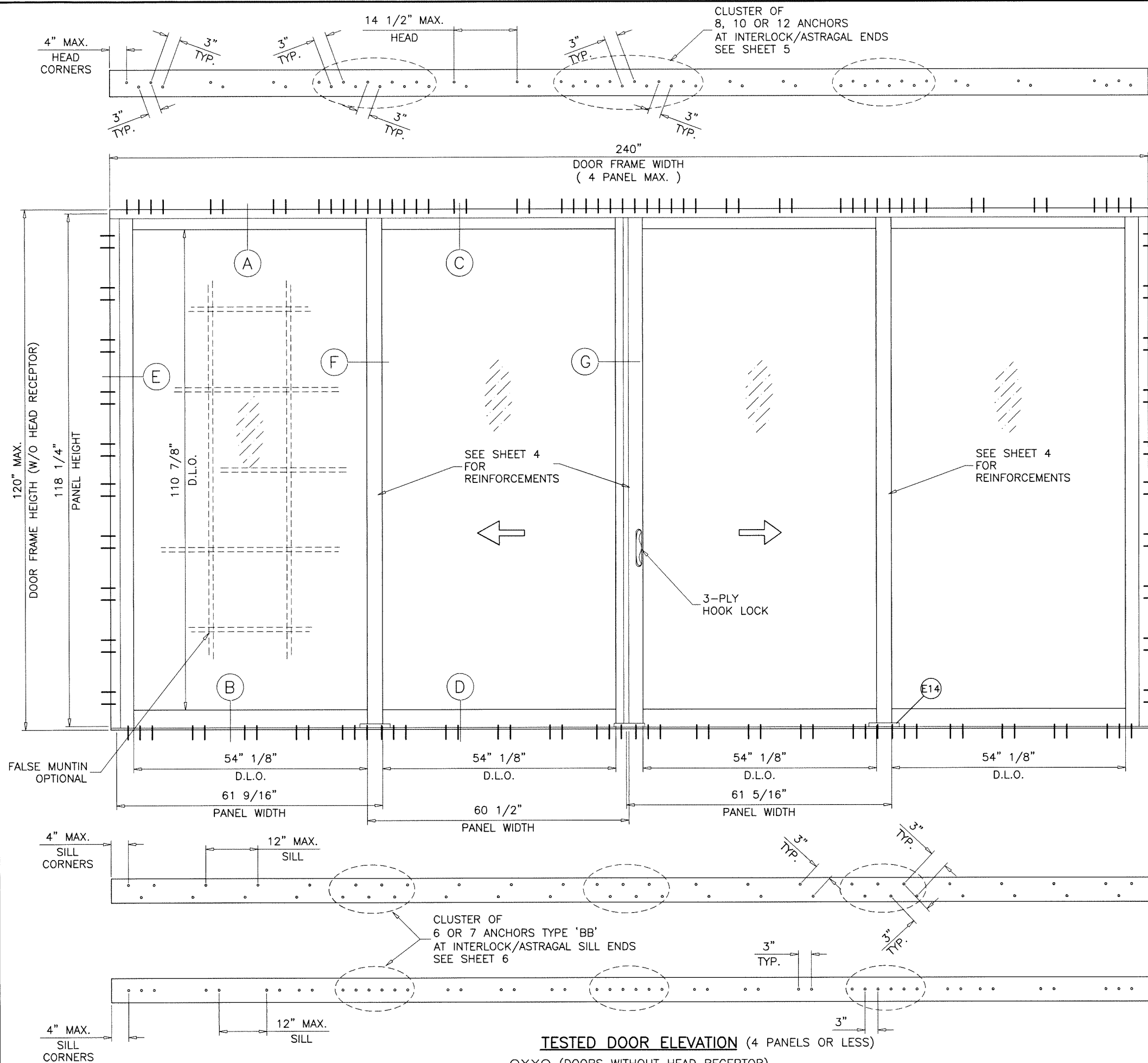
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 18-37FESW

SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

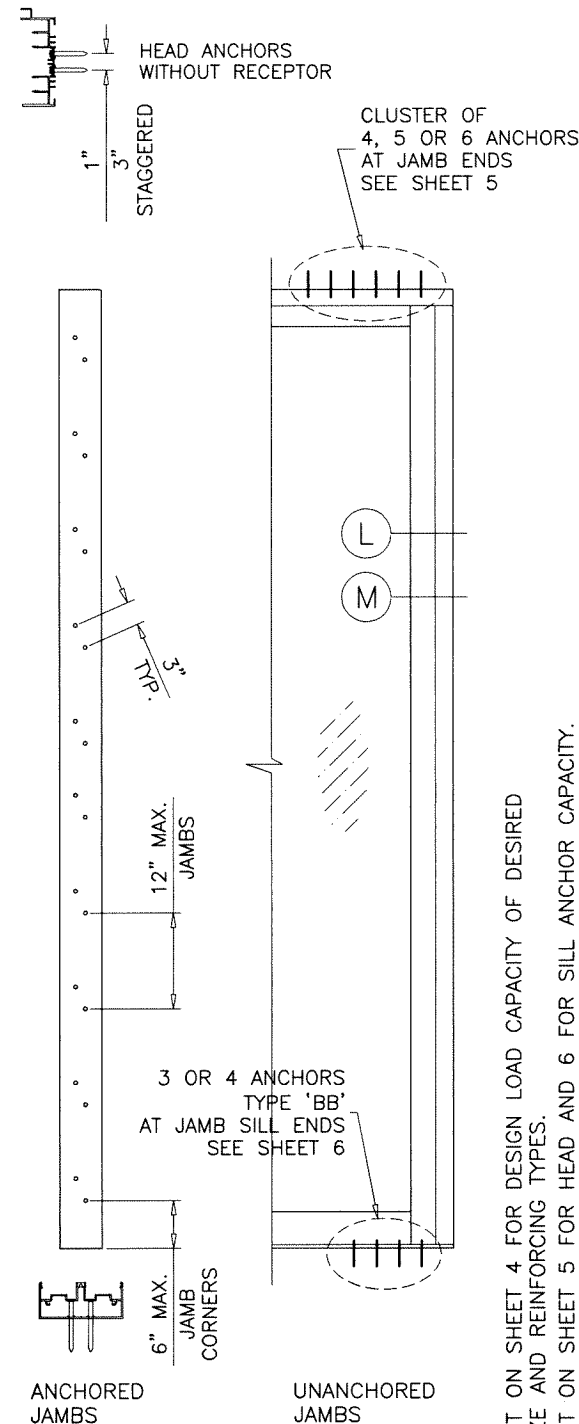
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B	09.12.23		UPDATED TO 2023 FBC

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dr. by: TARIQ
chk. by:

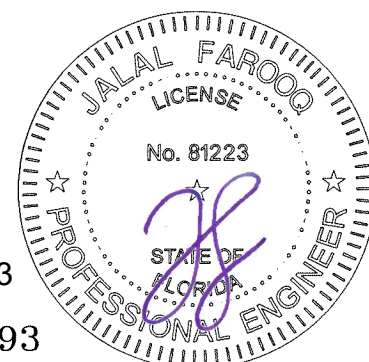
drawing no.
18-37F
sheet 1 of 16



TESTED DOOR ELEVATION (4 PANELS OR LESS)
 OXXO (DOORS WITHOUT HEAD RECEPTOR)
 MAX. AREA NOT TO EXCEED 200 SQ. FT. PER FBC 2017



SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.
 SEE CHART ON SHEET 5 FOR HEAD AND 6 FOR SILL ANCHOR CAPACITY.
 LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART OR ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM.



Sealed: 9/15/2023
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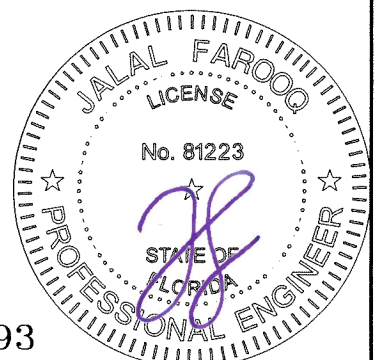
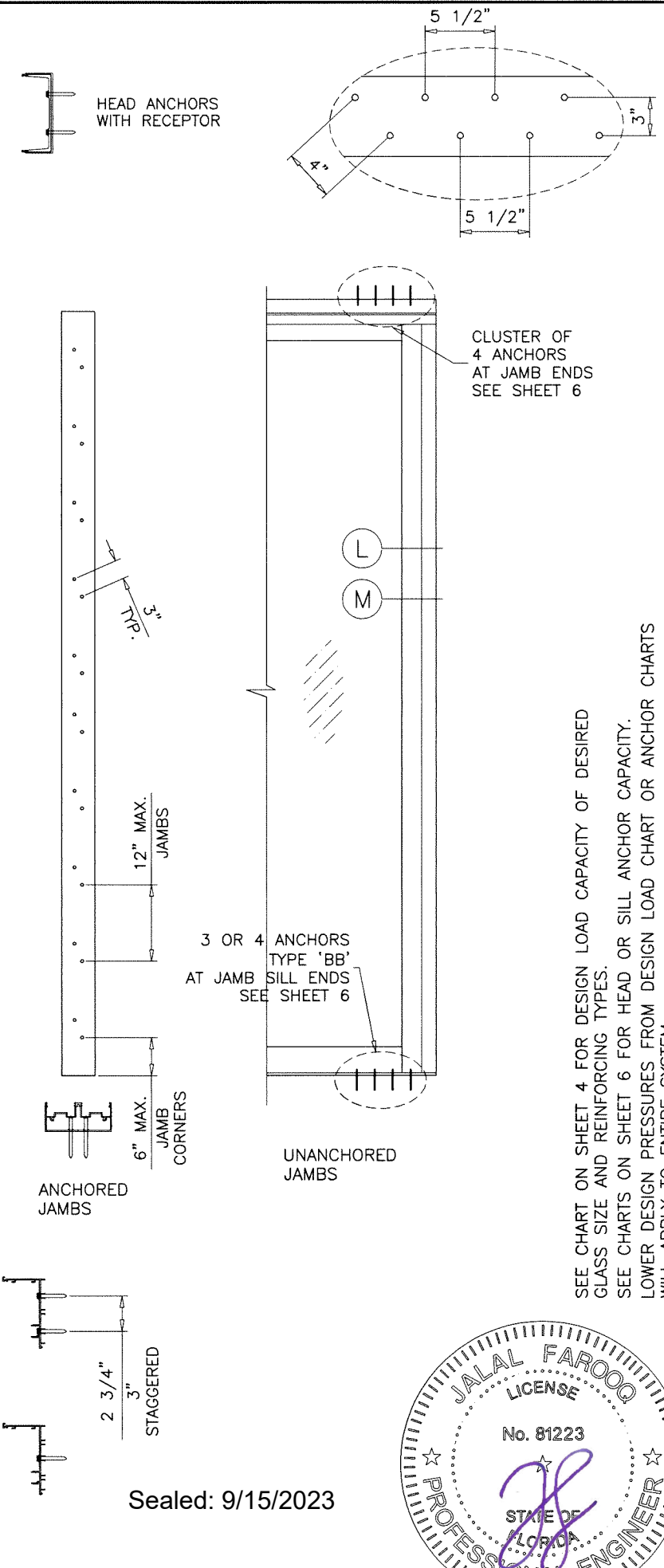
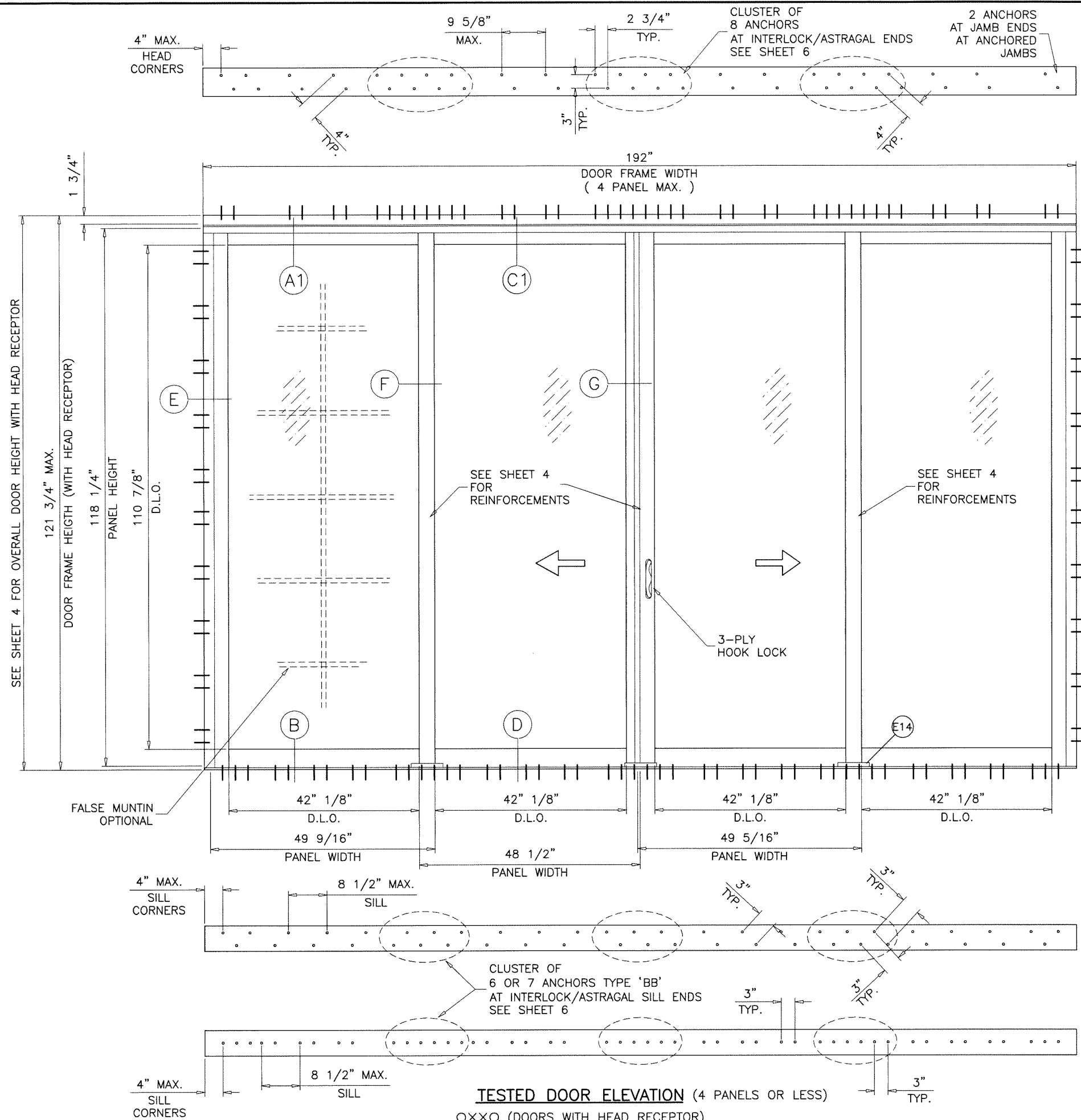
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no	date	description

date: 03-21-18
 scale: 1/2"=1'-0"
 dr. by: TARIQ
 chk. by:

drawing no.
18-37F
 sheet 2 of 16



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revisions:

no	date	description

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scale: 1/2"=1'-0"

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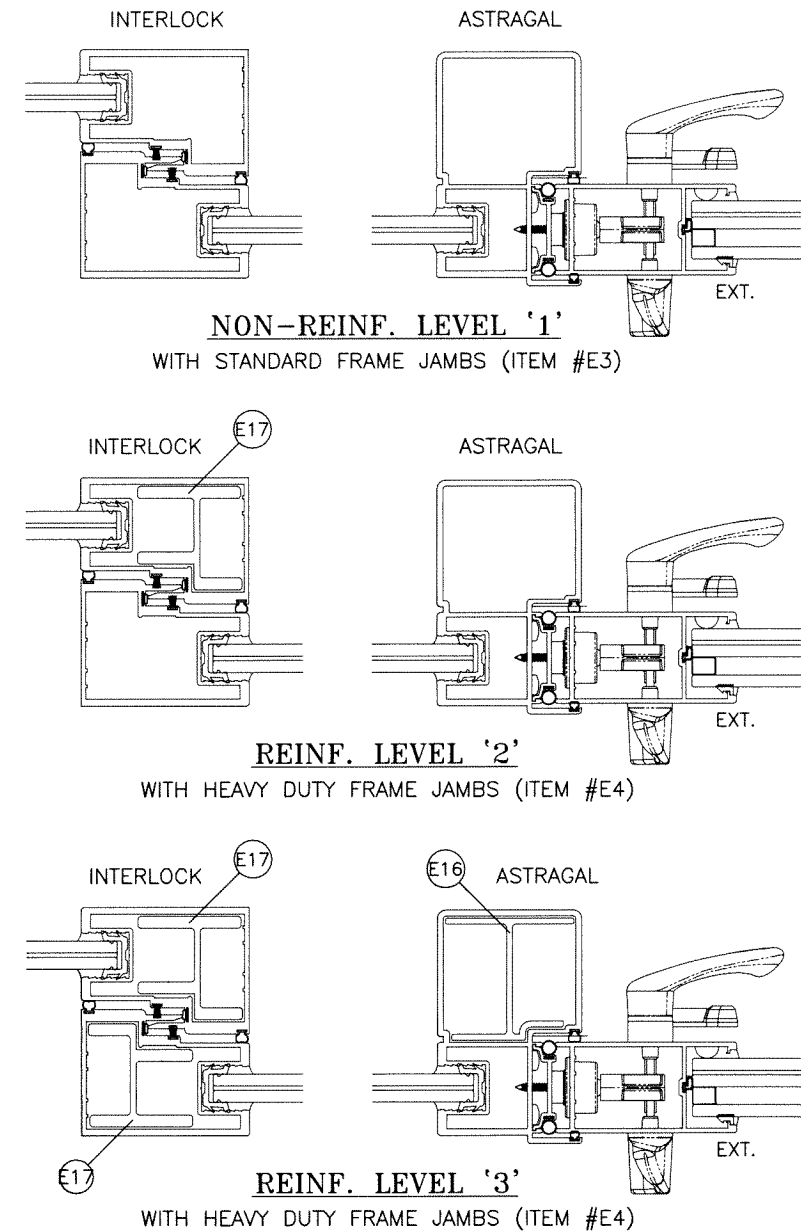
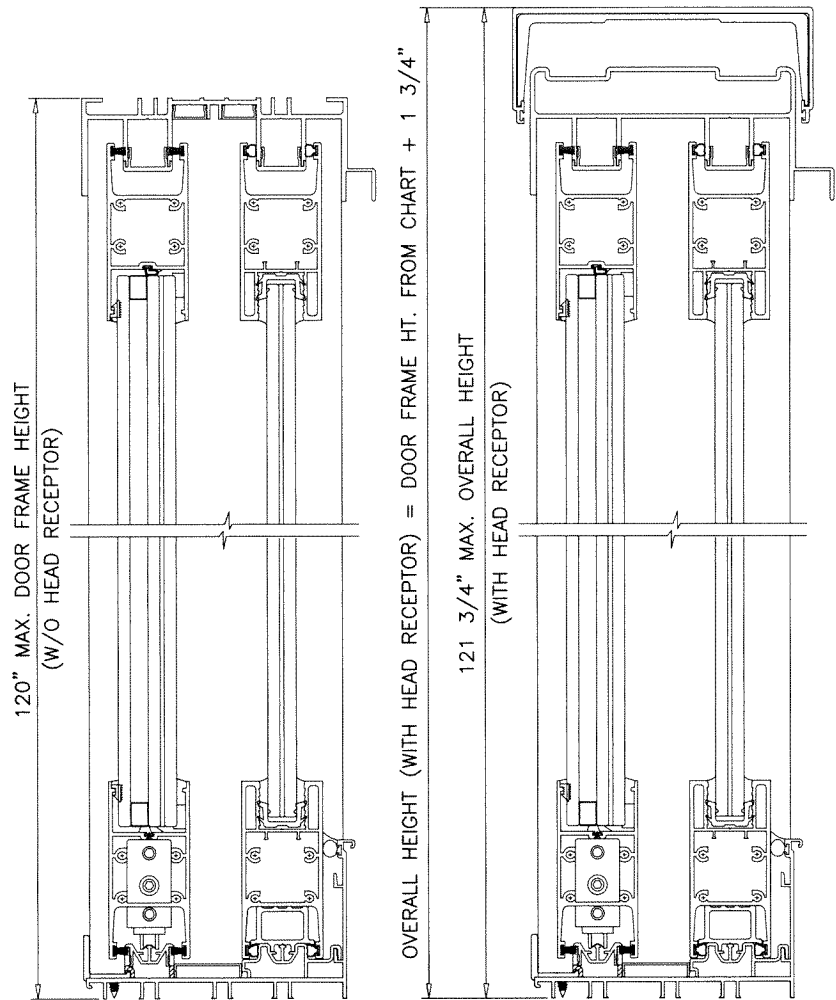
drawing no.

18-37F

sheet 3 of 16

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 'A' & 'A1'		GLASS 'B' & 'B1'		GLASS 'B' & 'B1'		GLASS 'B' & 'B1'	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	82	85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	85.0	85.0	96.3	105.0	120.0	135.0
54		85.0	85.0	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	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	85.0	85.0	96.3	105.0	120.0	135.0
54		85.0	85.0	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	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	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	85.0	85.0	110.0	120.0	120.0	135.0
42		85.0	85.0	85.0	85.0	110.0	120.0	120.0	135.0
48		85.0	85.0	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	-	-	-	-

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".



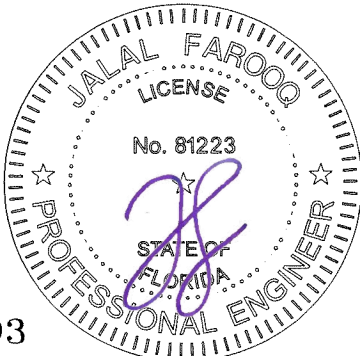
NOTE:
 SEE SHEET 12 FOR FIXED PANEL CLIP, ANGLE AND SNAP ON THRESHOLD REQUIREMENT.
 ALSO SEE SHEET 8 FOR APPLICABLE EXTRUSION TEMPERS FOR STILES/INTERLOCKS.

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 #17893



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revisions: no date by description

date: 03-21-18 scale: - dr. by: TARIO ch. by:

drawing no. **18-37F**

sheet **4** of **16**

HEAD ANCHOR LOAD CAPACITY – PSF (DOORS WITHOUT HEAD RECEPTOR) (APPLICABLE TO SHEET 2 ELEVATION)																	
ANCHOR TYPE		ANCHOR TYPE 'AA'			ANCHOR TYPE 'BB'						ANCHOR TYPE 'C'				ANCHOR 'CC'		
SHIM SPACE		1/4" SHIM	3/8" MAX. SHIM		1/4" SHIM	3/8" MAX. SHIM		1/2" MAX. SHIM			1/4" SHIM	3/8" 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	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. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	
36	82	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36	84	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	
60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36	90	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
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60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36	96	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
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60		108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0	108.0
36	102	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	126.5	135.0	135.0	135.0	135.0	
54		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	117.0	120.0	120.0	120.0	120.0
60		85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
36	108	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	129.6	135.0	135.0	135.0	
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	117.5	135.0	135.0	135.0	
54		85.0	85.0	85.0	85.0	85.0	85.0	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	85.0	85.0	85.0	85.0	85.0	85.0
36	114	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	121.3	135.0	135.0	135.0	
48		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	109.7	135.0	135.0	135.0	
54		85.0	85.0	85.0	85.0	85.0	85.0	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	85.0	85.0	85.0	85.0	85.0	85.0
36	120	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	129.0	135.0	135.0	135.0	135.0
42		135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	113.9	135.0	135.0	135.0	
48		135.0	130.6	135.0	135.0	130.6	135.0	102.8	128.5	135.0	135.0	135.0	102.8	128.5	135.0	135.0	
54		85.0	85.0	85.0	85.0	85.0	85.0	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	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 STANDING 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 STANDING JAMB ENDS	

CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.
LIMIT ALL EXTERIOR LOADS TO +120.0 PSF MAX.

Sealed: 9/15/2023



FL #17893

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

SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)

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

revisions:

no	date	by	description

date: 03-21-18

scale: -

dr. by: TARIQ

chk. by:

drawing no.

18-37F

sheet 5 of 16

COMP-ANL\18-37FESW

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

HEAD ANCHOR LOAD CAPACITY – PSF (DOORS WITH HEAD RECEPTOR) (APPLICABLE TO SHEET 3 ELEV. & SHEET 11 DETAIL)			
ANCHOR TYPE		ANCHOR TYPE 'AAA'	
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

SILL ANCHOR LOAD CAPACITY – PSF (APPLICABLE TO DOORS WITH OR W/O HEAD RECEPTOR)			
ANCHOR TYPE		ANCHOR TYPE 'BB'	
SHIM SPACE		1/4" MAX. SHIM	
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	6 ANCHORS AT MTG. STILE ENDS	7 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		132.8	135.0
54		85.0	85.0
60		85.0	85.0
36	120	135.0	135.0
42		135.0	135.0
48		124.5	135.0
54		85.0	85.0
60		85.0	85.0
		3 ANCHORS AT FREE STANDING JAMB ENDS	4 ANCHORS AT FREE STANDING JAMB ENDS

CHARTS ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.
FOR DOORS WITH HEAD RECEPTORS OVERALL HEIGHT = DOOR FRAME HT. FROM CHART + 1-3/4".
LIMIT ALL EXTERIOR LOADS TO +120.0 PSF MAX.

SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED
GLASS SIZE AND REINFORCING TYPES.

SEE CHART LEFT FOR HEAD ANCHOR CAPACITY.
SEE CHART RIGHT FOR SILL ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART, HEAD ANCHOR CHART
OR SILL ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

Sealed: 9/15/2023



FL #17893

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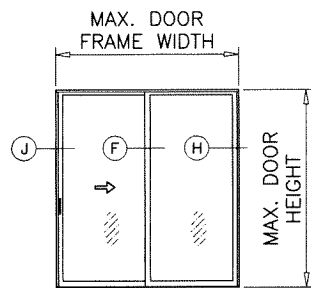
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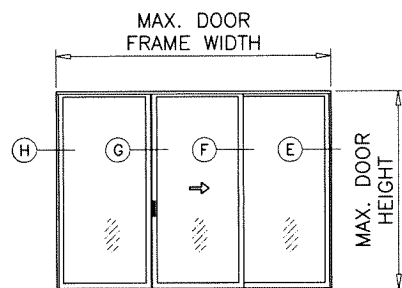
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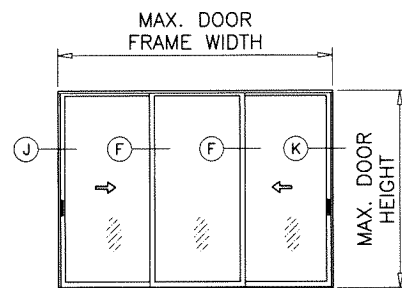
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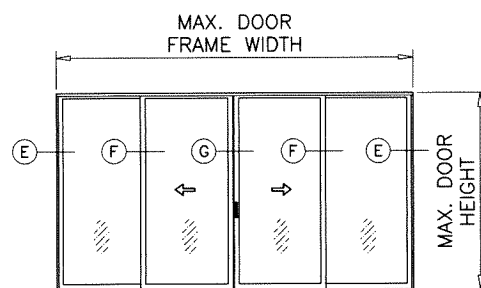
XO (SHOWN)
OX



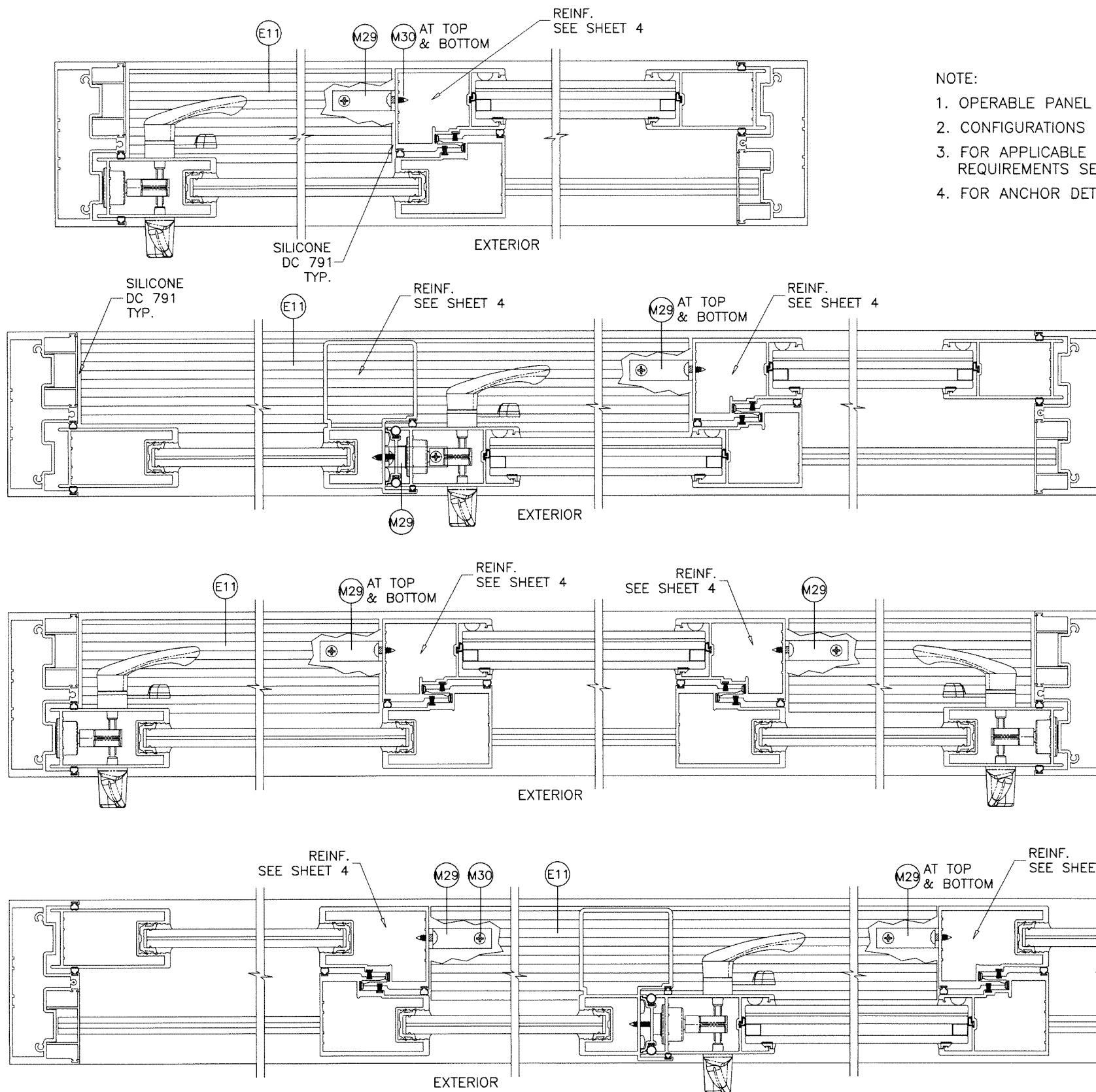
OXO (SHOWN)



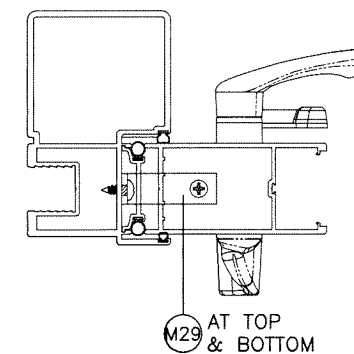
XOX (SHOWN)



OXXO (SHOWN)



- 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 SHEET 4.
 4. FOR ANCHOR DETAILS SEE SHEETS 9 THRU 13.

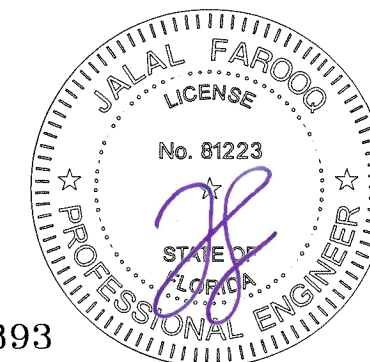


FOR UNANCHORED JAMBS
USE ES-6500-004 ONLY

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)

Sealed: 9/15/2023



FL #17893

SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)

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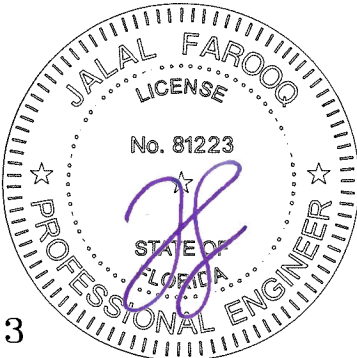
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18-37F

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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	LIMIT MAX. LOADS TO ±85 PSF
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	-
E6	ES-6500-006	1/ PANEL	LOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E7	ES-6500-007	1/ PANEL	INTERLOCK STILE (INSUL. LAM. GLASS)	6005-T5	-
E8	ES-6500-008	1	ASTRAGAL STILE (INSUL. 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	-
E16	ES-6500-016	AS REQD.	ASTRAGAL REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E17	ES-6500-017	AS REQD.	INTERLOCK REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E18	ES-6500-018	AS REQD.	HEAD COVER (OPTIONAL)	6063-T5	-
E22	ES-6011	AS REQD.	SCREW COVER (OPTIONAL)	6063-T6	-
E24	ES-6500-019	1	HEAD RECEPTOR	6063-T6	-
E25	ES-6500-020	1	RECEPTOR REINFORCEMENT, FULL LENGTH	6005-T5	-
E26	ES-6500-021	1	FRAME HEAD AT RECEPTOR	6005-T5	-
E27	ES-6500-023	1/ PANEL	LOCK STILE (LAM. GLASS)	6063-T6	-
E28	ES-6500-024	2/ PANEL	TOP AND BOTTOM RAIL (LAM. GLASS)	6063-T6	-
E29	ES-6500-025	1/ PANEL	INTERLOCK STILE (LAM. GLASS)	6005-T5	-
E30	ES-6500-027	1	SILL SCREW COVER	6063-T5	-
E31	ES-6500-026	1	ASTRAGAL STILE (LAM. GLASS)	6005-T5	-
E32	ES-6500-033	2	FIXED PANEL BOTTOM GUIDE	6005-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
M7	ES-6500-G01A	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONES S.A.
M8	E-214	AS REQD.	ASTRAGAL ADAPTER W'STRIPPING	VINYL	THERMOPLASTIC ELASTOMER
M10	ES-8011	AS REQD.	SPACER GASKET	EPDM	DUROMETER 80±5 SHORE A, EXTRUSIONES S.A.
M11	27-445	AS REQD.	GLAZING WEDGE GASKET	EPDM	DUROMETER 75±5 SHORE A, SOLUCIONESENCAUCHO
M12	27-448	AS REQD.	BOTTOM RAIL GLAZING GASKET	EPDM	DUROMETER 68±5 SHORE A, SOLUCIONESENCAUCHO
M13	27-449	AS REQD.	GLAZING GASKET AT TOP RAIL AND STILES	EPDM	DUROMETER 75±5 SHORE A, SOLUCIONESENCAUCHO
M16	1/4" X 1/2"	AS REQD.	GLAZING TAPE (INSUL. LAM. GLASS)	FOAM	-
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 SHORE A
M32	ES-6500-S01	-	1/4" SPACER FOR JAMB	NYLON	-
M33	ES-6500-S02	-	1/2" SPACER FOR ASTRAGAL	NYLON	-
M35	P6304 AFK	-	ADHESIVE PILE PAD (4" X 1" X 1/2")	-	ULTRAFAB
M38	W73341NK000B	AS REQD.	THRESHOLD WEATHERSEAL	PILE	-
M39	ES-6500-301	AS REQD.	BOTTOM SPACER	POLYPROPYLENE	-

Sealed: 9/15/2023



FL #17893

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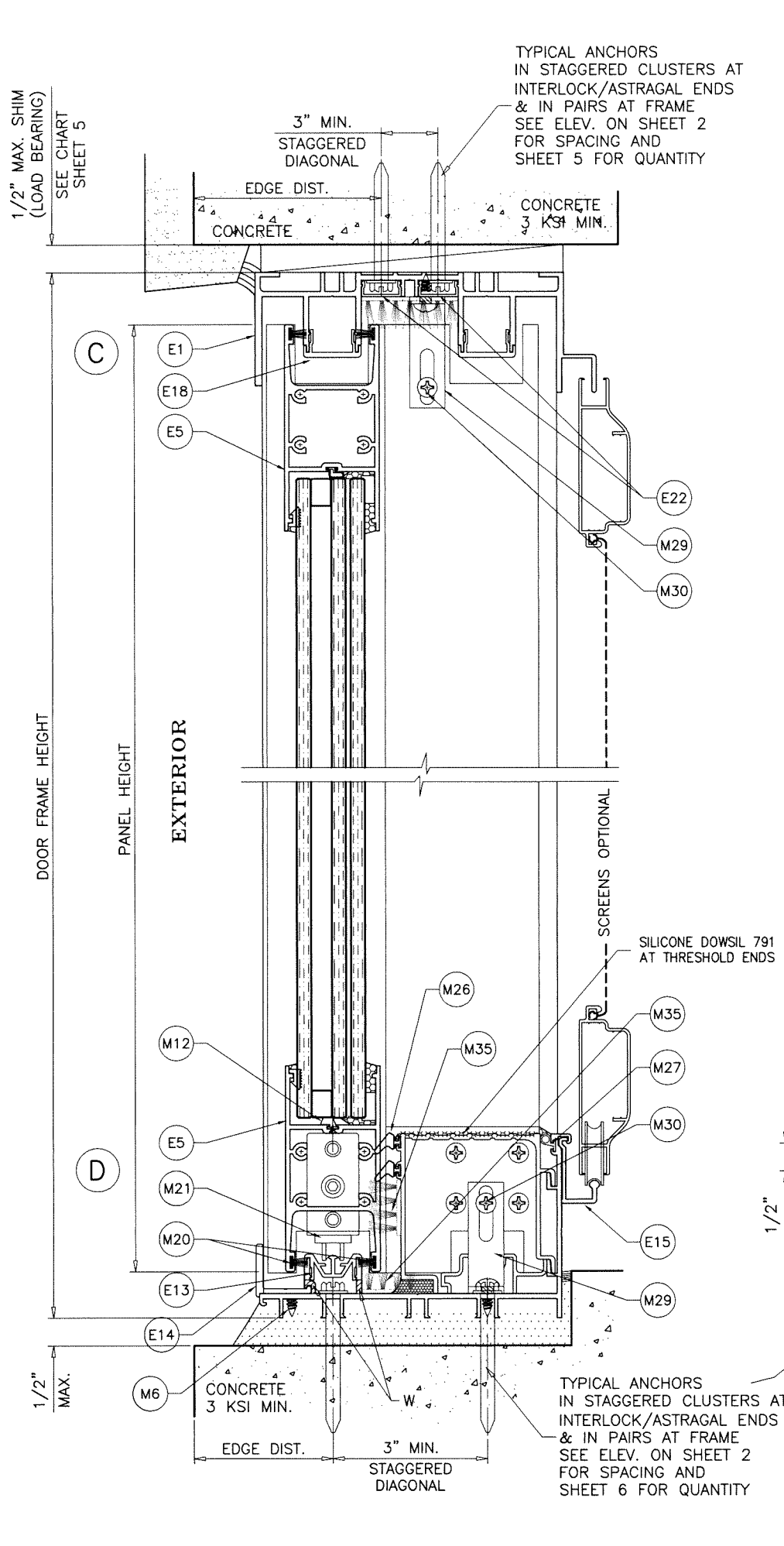
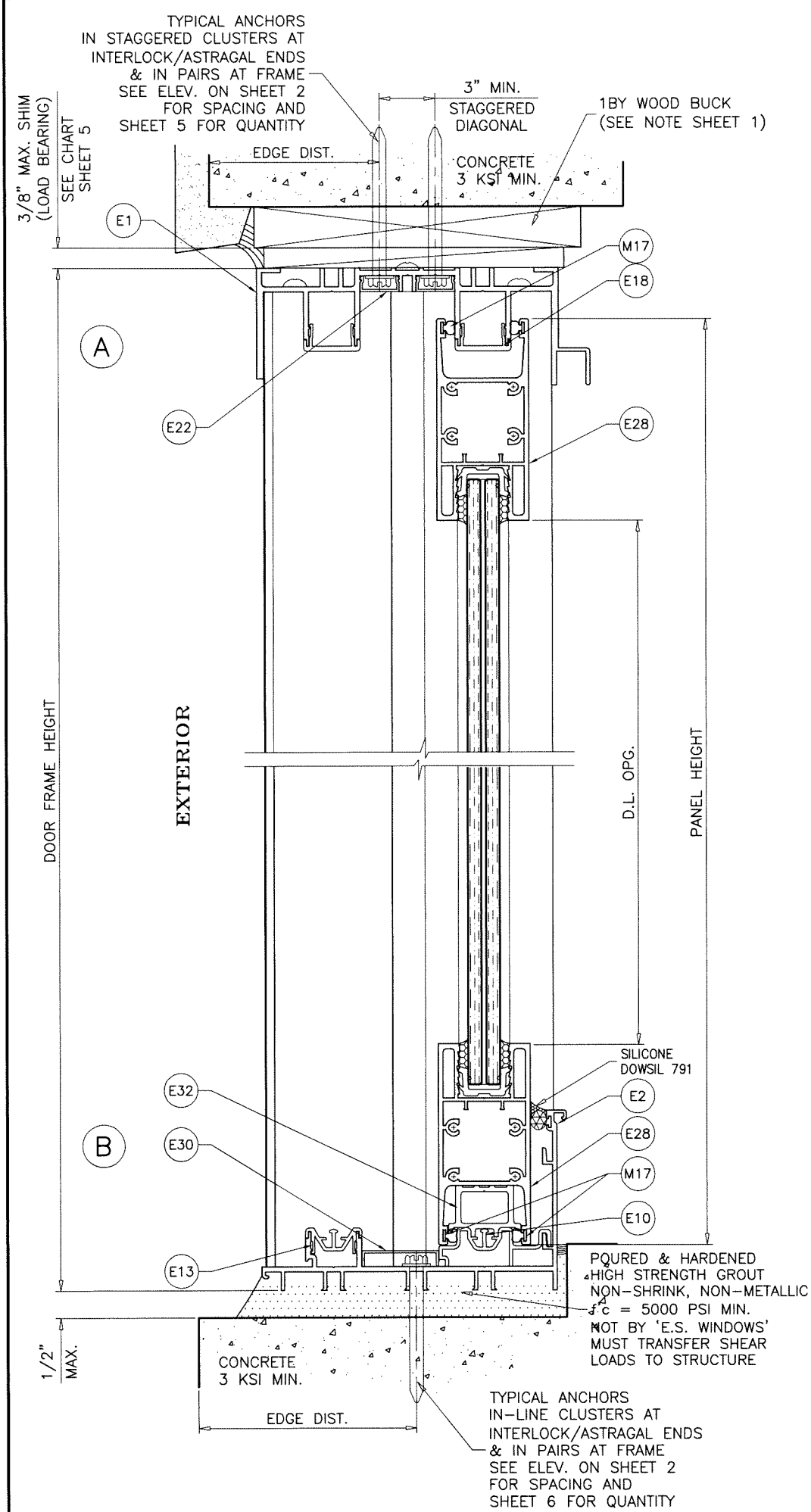
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18-37F

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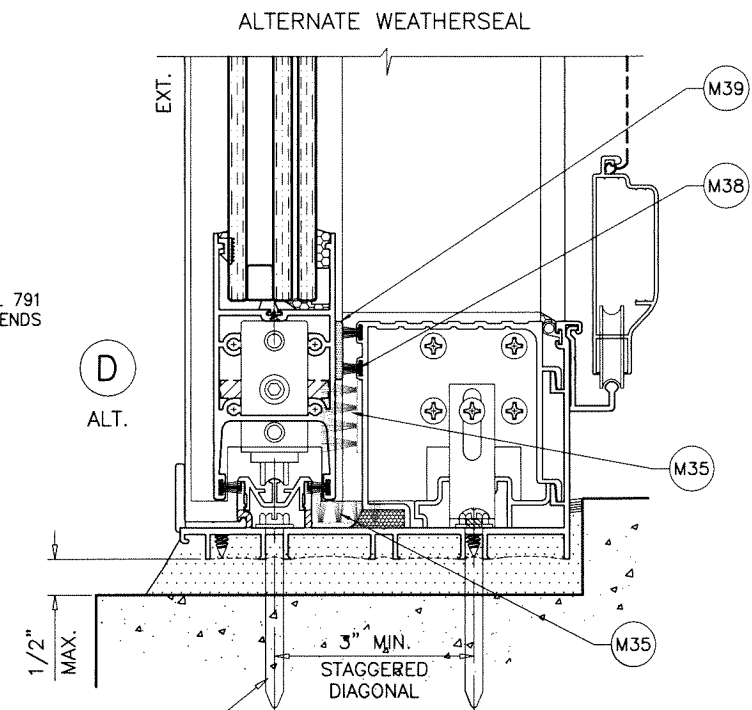
UNITS WITHOUT HEAD RECEPTORS

SEALANT:

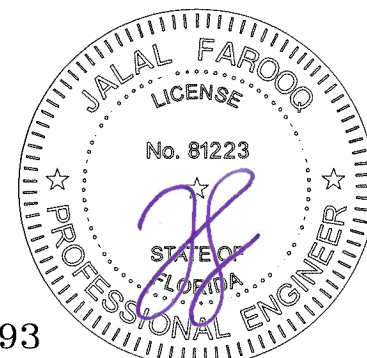
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

WEEPHOLES:

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



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FL #17893

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scale: 3/8" = 1"

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chk. by:

drawing no.

18-37F

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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 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY 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'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
- TYPE 'CC'— 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
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/VO HEAD RECEPTOR)

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

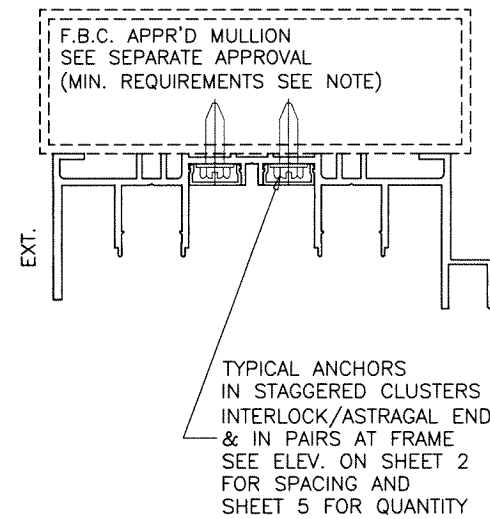
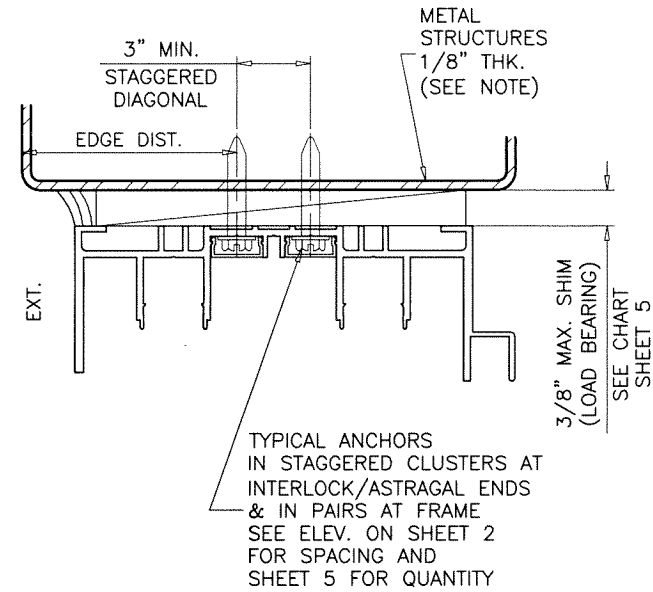
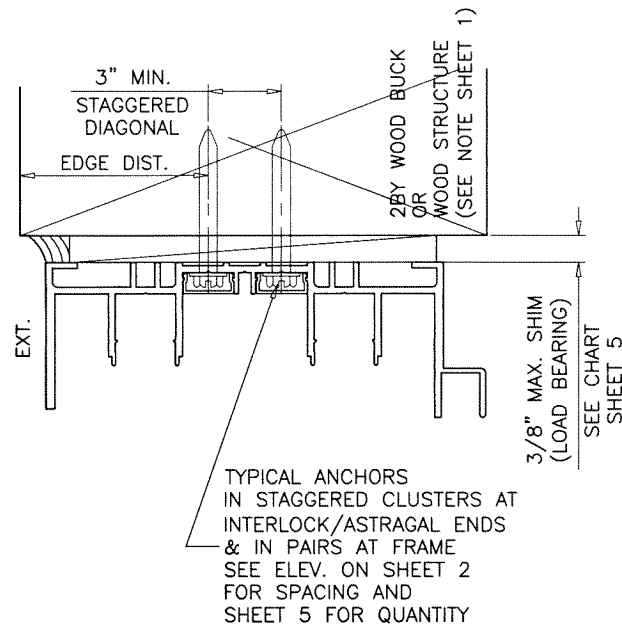
AT JAMBS (FOR DOORS W/VO HEAD RECEPTOR)

- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR 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. TO EXTEND BEYOND METAL THICKNESS
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 BLOCKS = 3-1/8" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

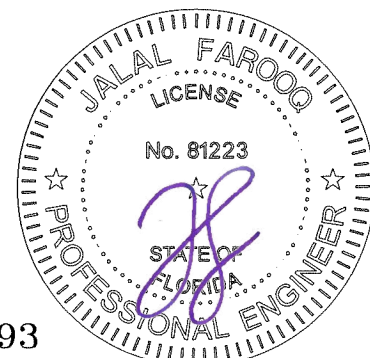
WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



ALTERNATE SUBSTRATES UNITS WITHOUT HEAD RECEPTORS
SEE SHEET 11 FOR UNITS WITH HEAD RECEPTORS

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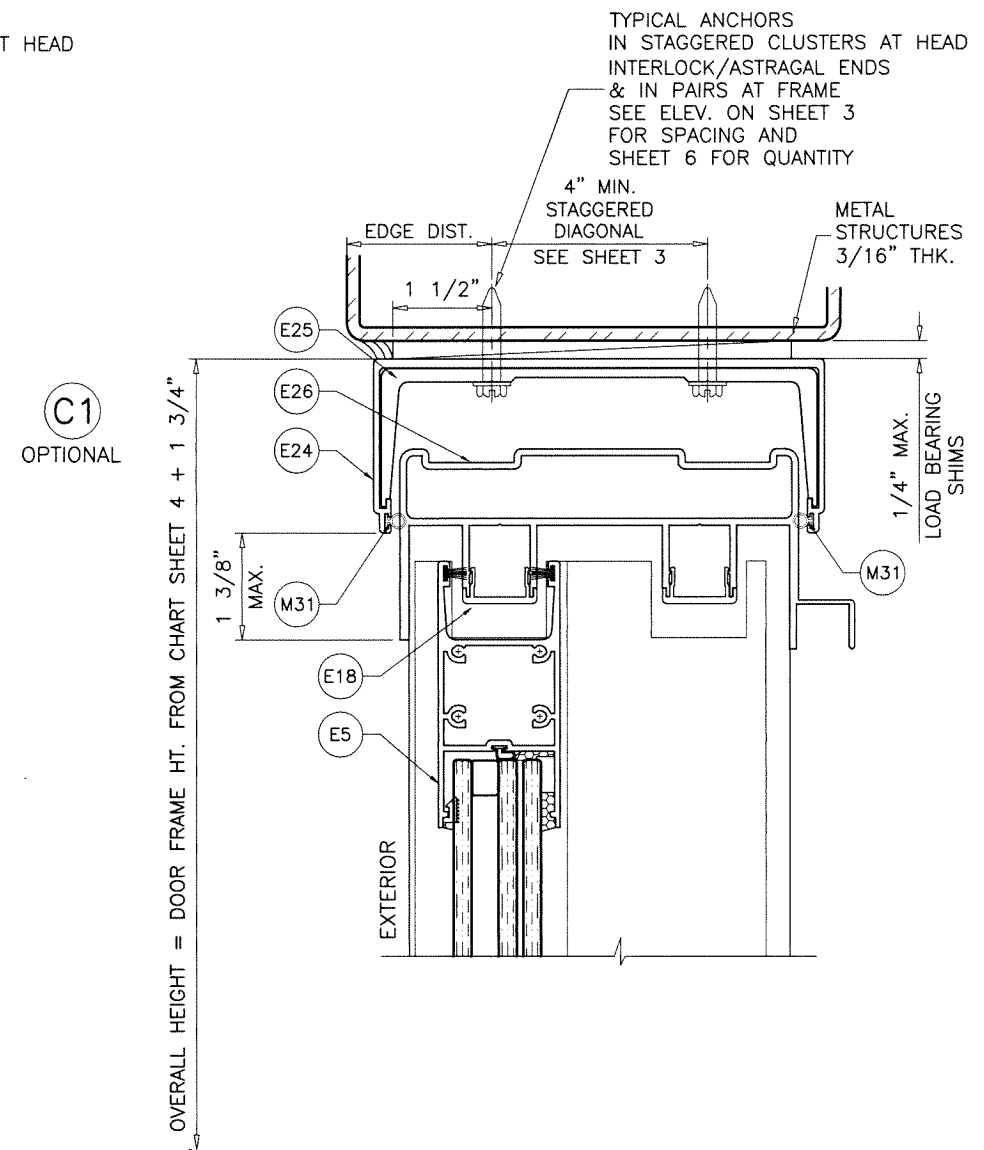
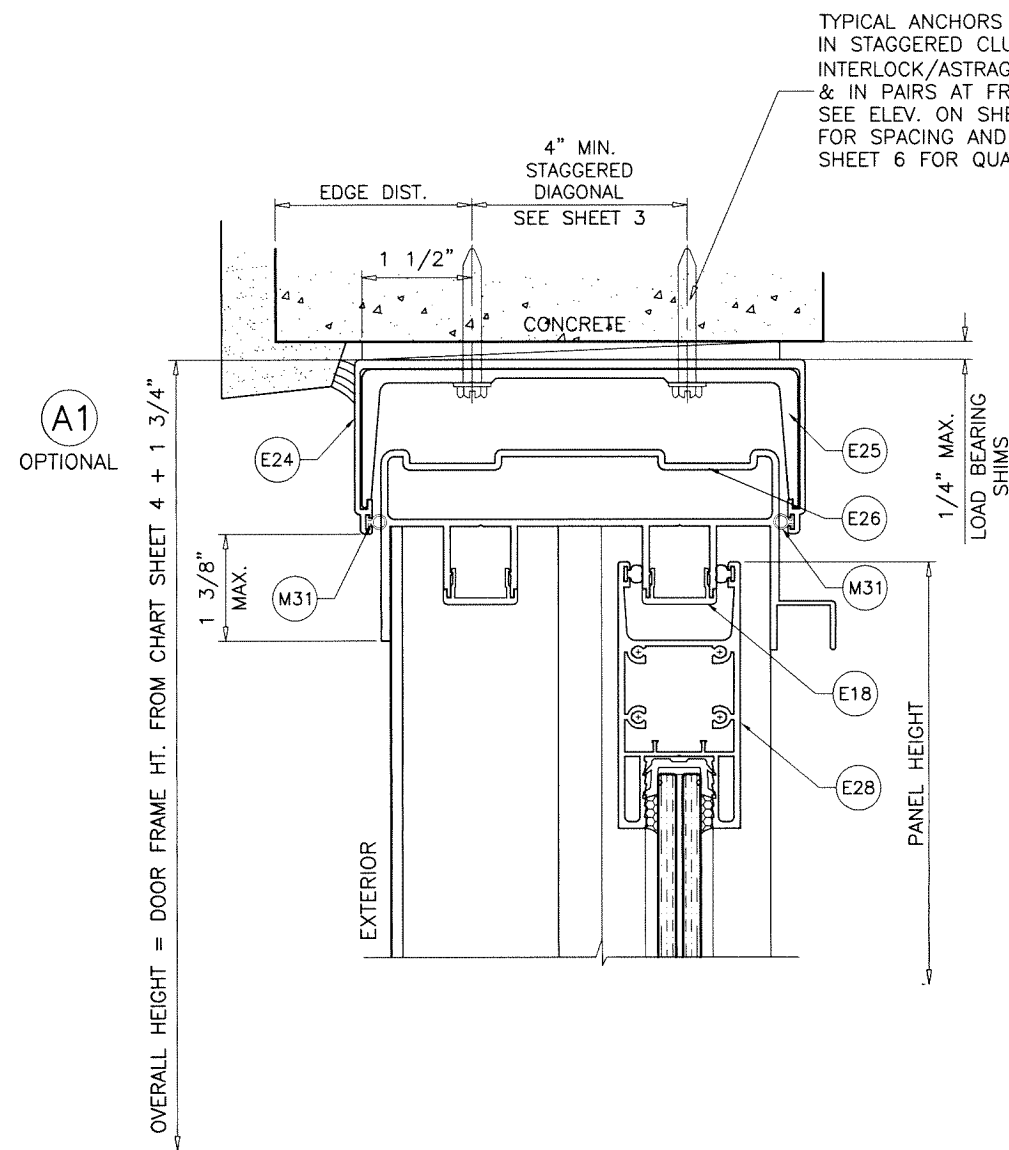
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revisions:
no date by description

date: 03-21-18
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

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COMP-ANL\18-37FESW



UNITS WITH HEAD RECEPTORS

HEAD RECEPTOR MOUNT SHOWN, SEE DETAIL 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' ($F_u=177$ KSI, $F_y=155$ 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. 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)

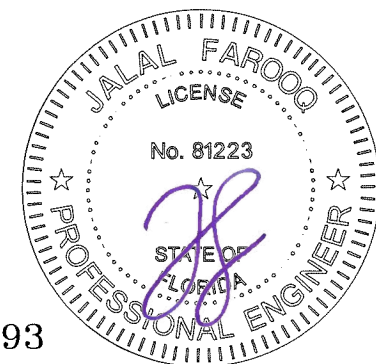
ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-3/16" MIN.

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

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

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SERIES ES-6500 ALUM SLIDING GLASS DOOR (L.M.I.)

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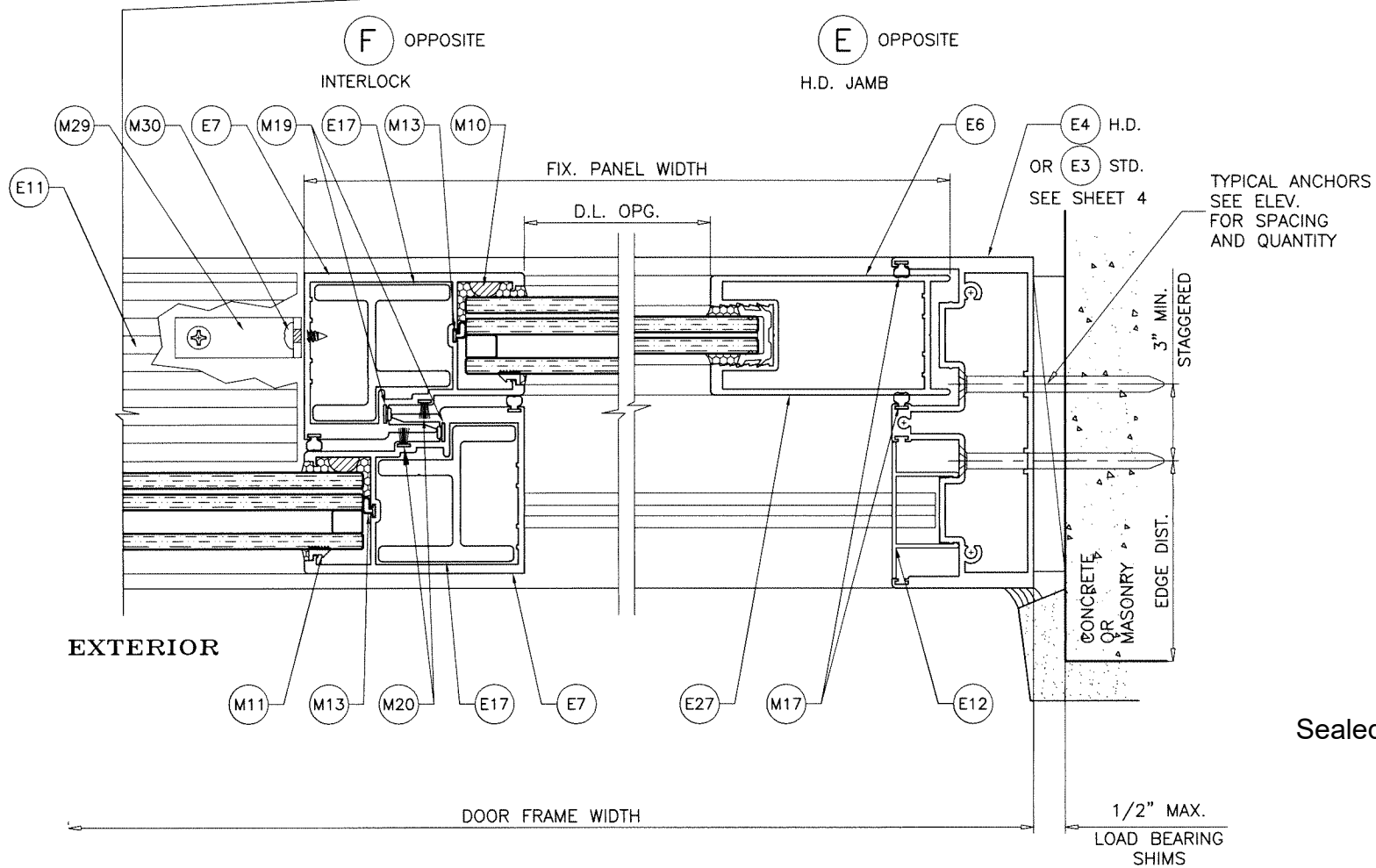
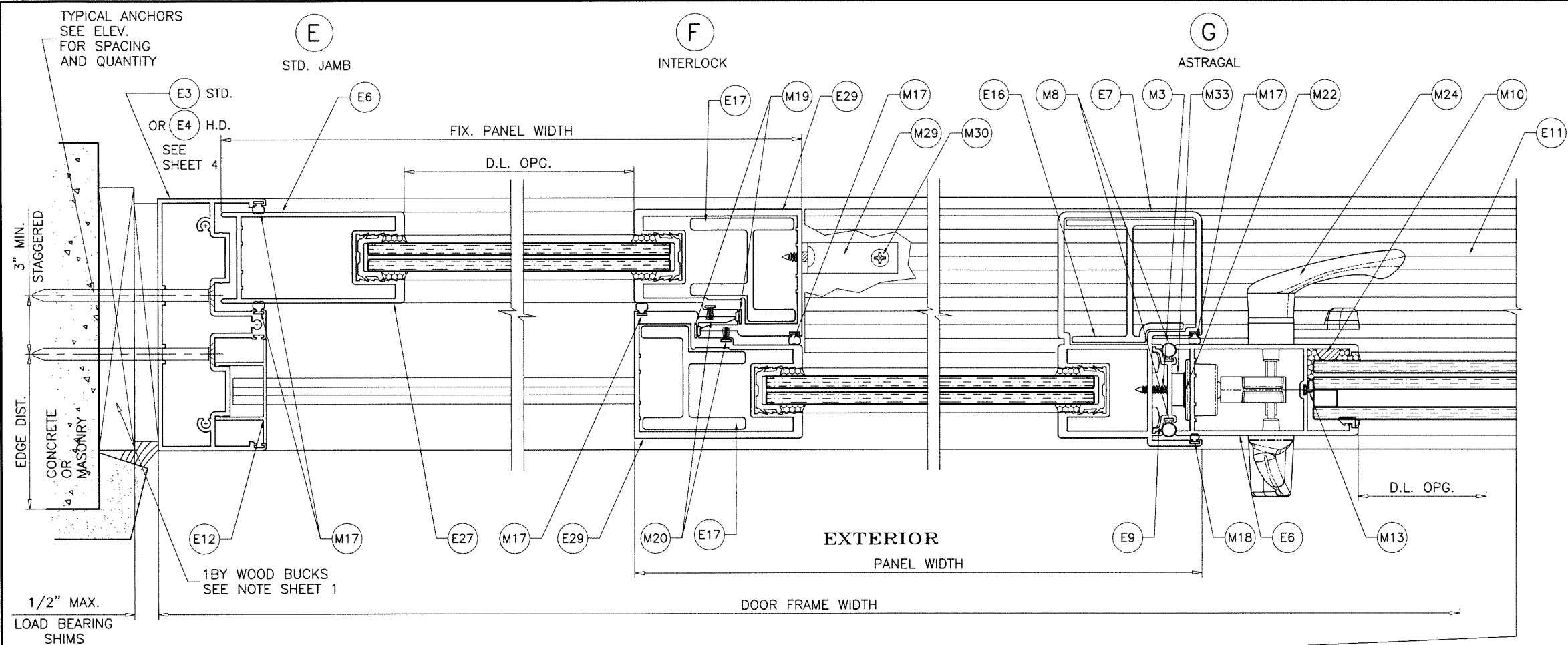
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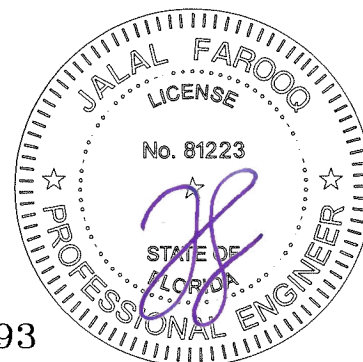
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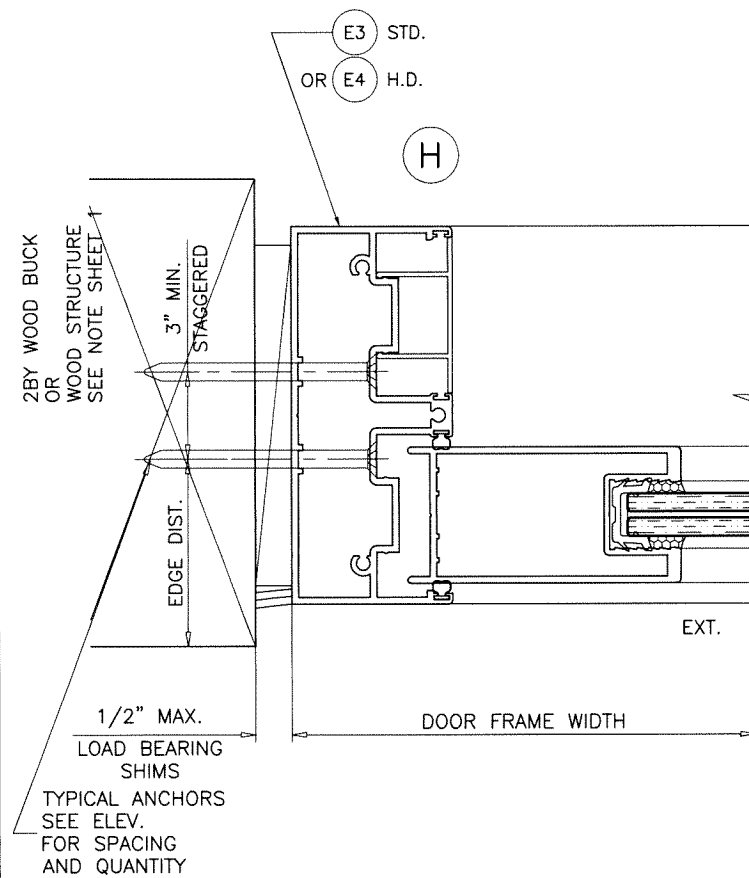
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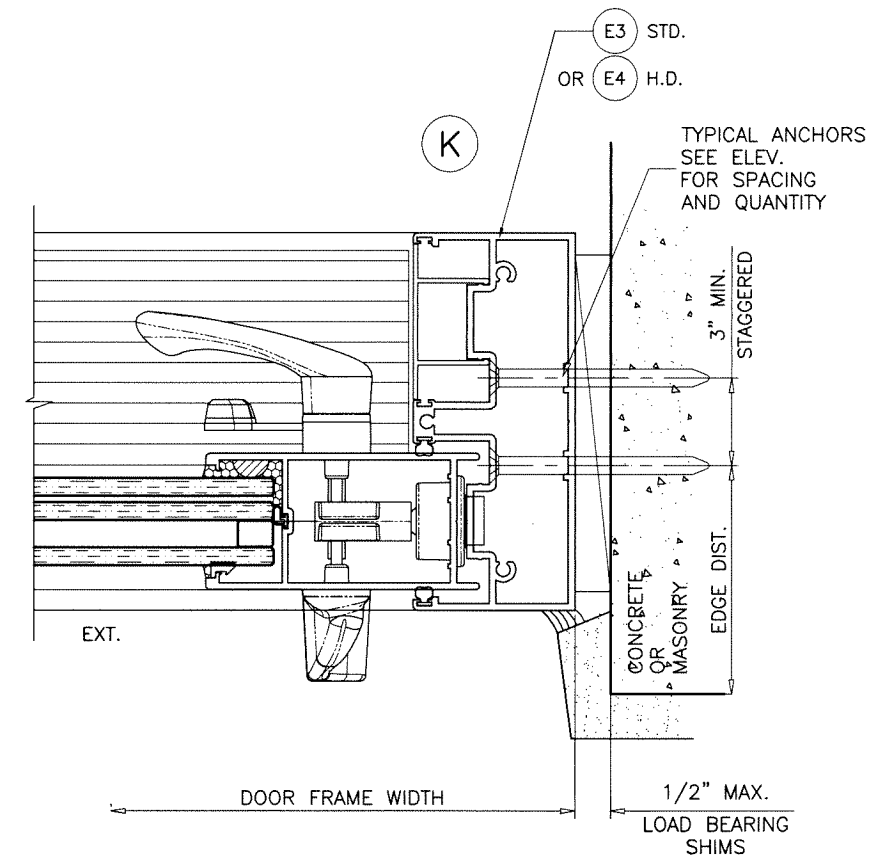
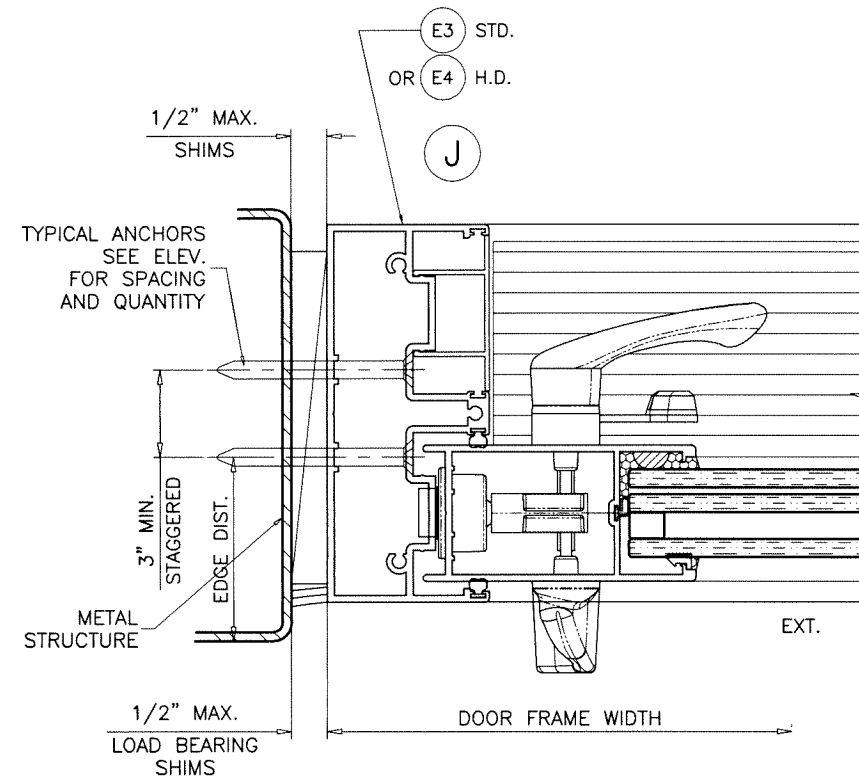
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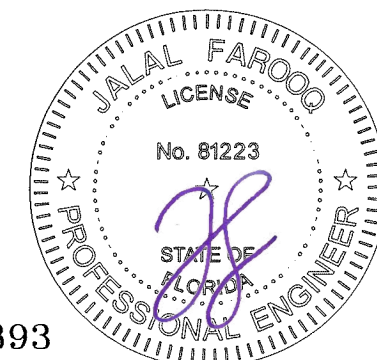
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FIXED PANEL:
SEE HEAD/SILL CLIP ANGLE DETAIL ON SHEET 7 & 9



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COMP-ANL 18-37FESW

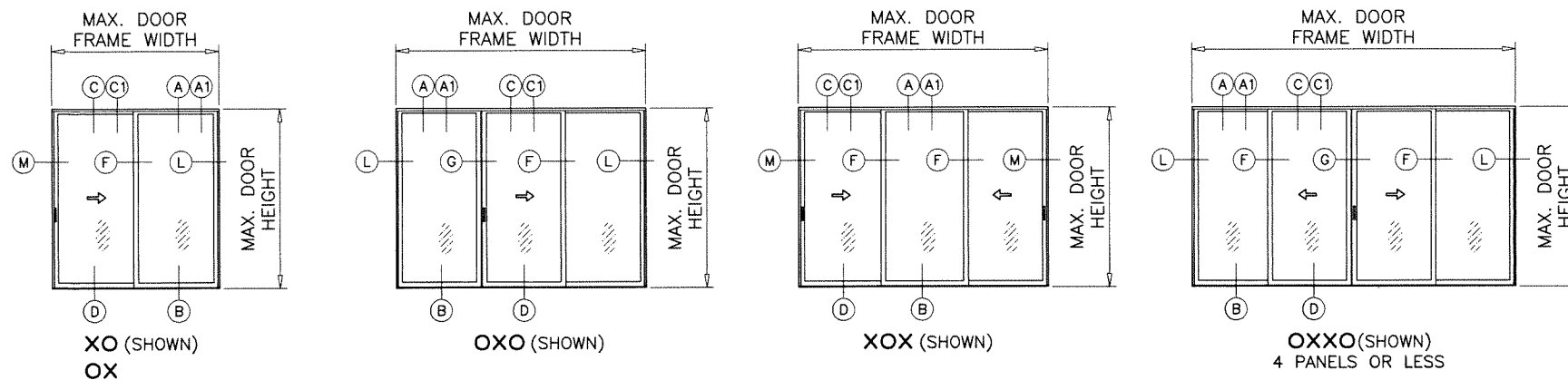
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drawing no.
18-37F
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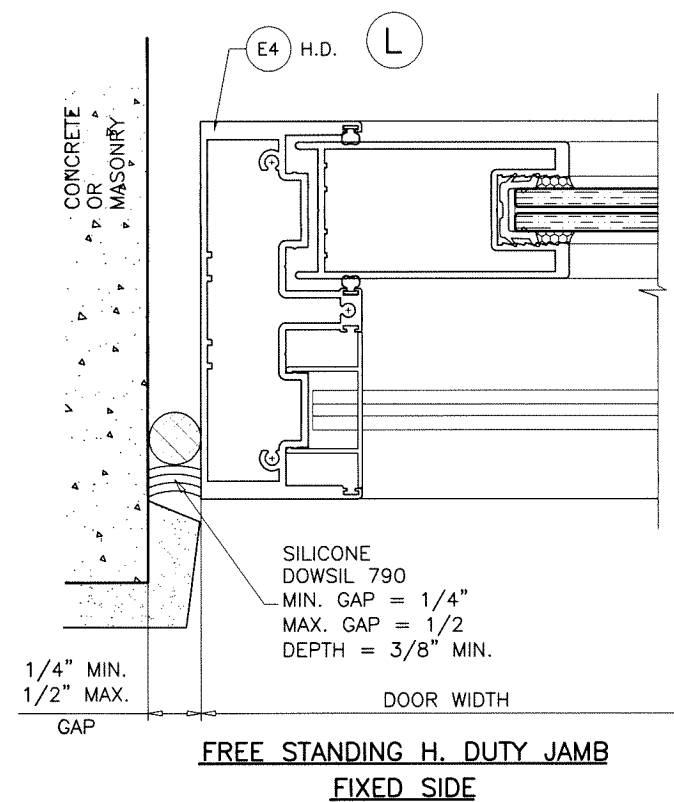
ANCHORS AT HEAD/SILL AND FREE JAMB ENDS
SEE ELEVATIONS ON SHEETS 2 & 3
(APPLICABLE TO ALL SIZES ON SHEET 4 AND CONFIGURATIONS ABOVE)
MAX. FRAME AREA NOT TO EXCEED 200 SQ. FT. (DOORS W/O HEAD RECEPTORS)
MAX. AREA NOT TO EXCEED 162.33 SQ. FT. (DOORS WITH HEAD RECEPTORS)

DOWSIL 790 = 100% STRETCH

ALLOWABLE LOADS FOR DOOR HEIGHTS VERSUS 100% STRETCH SILICONES		
DOOR HEIGHT	1/4" MIN. GAP	3/8" MIN. GAP
96"	135 PSF	135 PSF
108"	135 PSF	135 PSF
120"	—	135 PSF
MAXIMUM GAP = 1/2" ALL CASES		

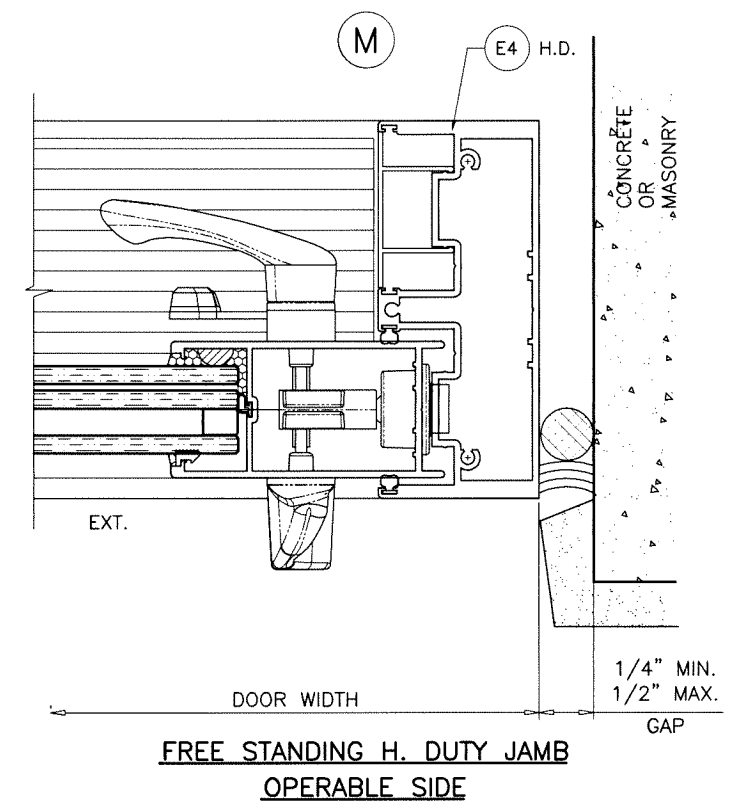
CHART APPLICABLE TO ALL SIZES, LOAD CAPACITIES AND CONFIGURATIONS AS SHOWN ON SHEETS 4, 5, 6 AND 7.

NOTE:
DATA IN THIS SHEET MAY BE USED TO QUALIFY SEALANT TO BE USED AT UNANCHORED 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)

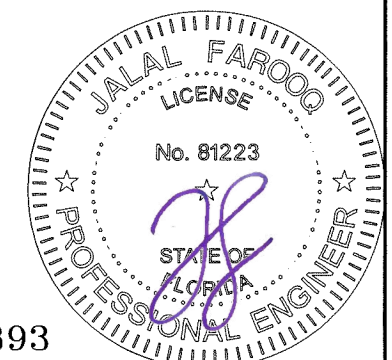


1x IN^4	8.895	Sx IN^3	3.387
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FIXED PANEL:
SEE HEAD/SILL CLIP ANGLE DETAIL ON SHEET 7 & 9



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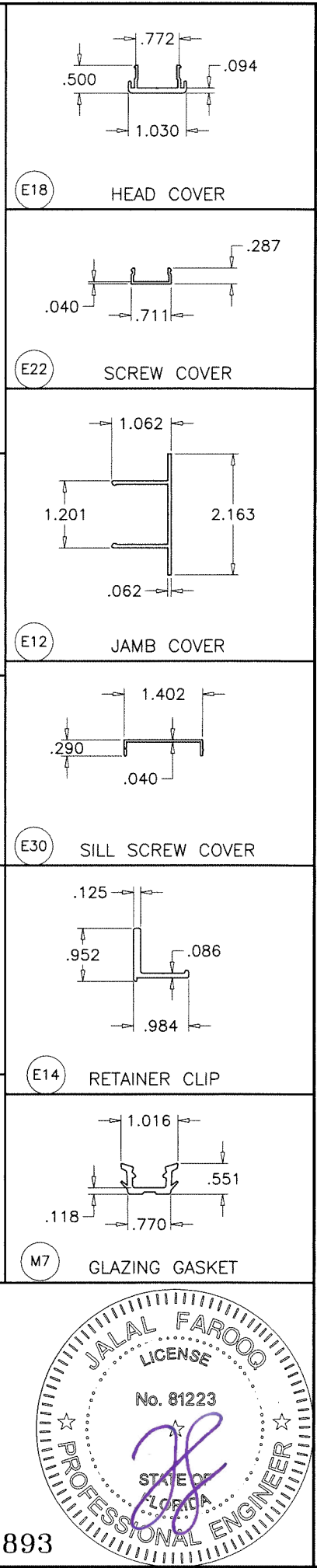
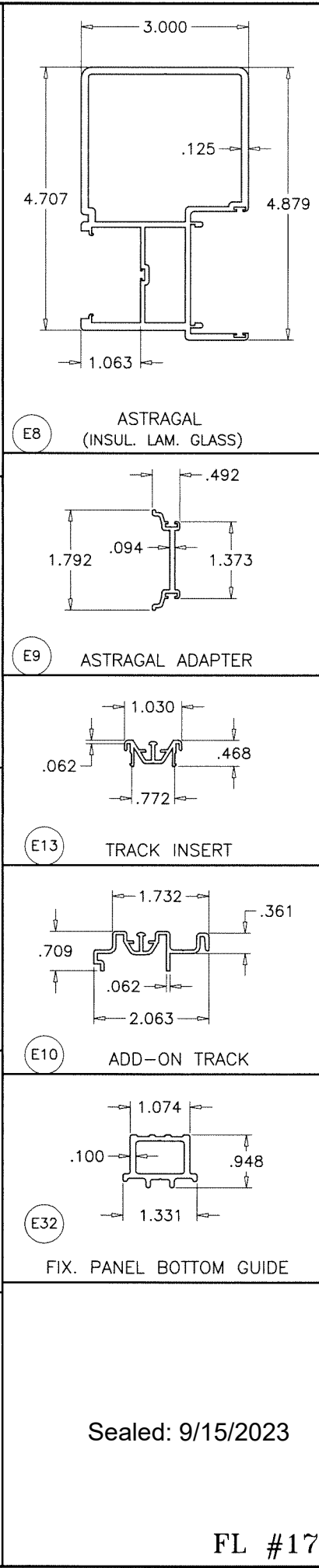
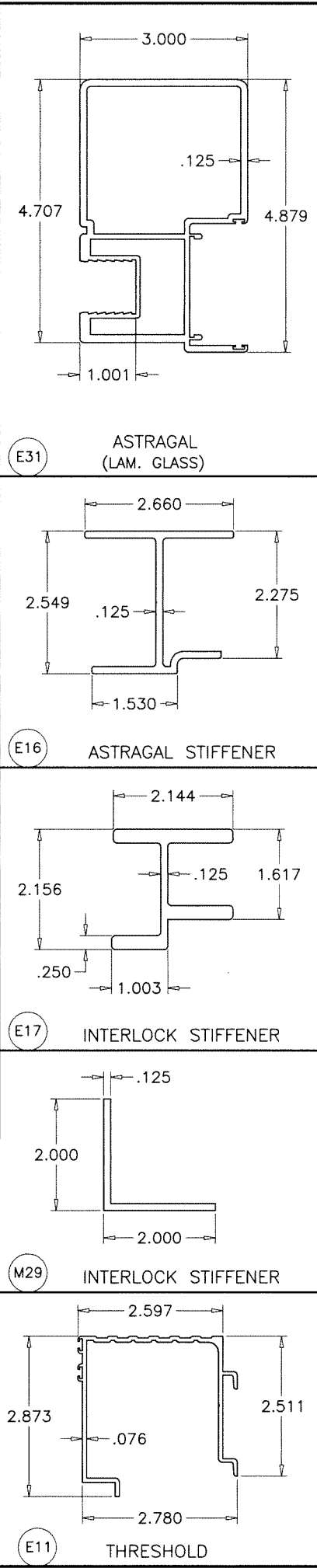
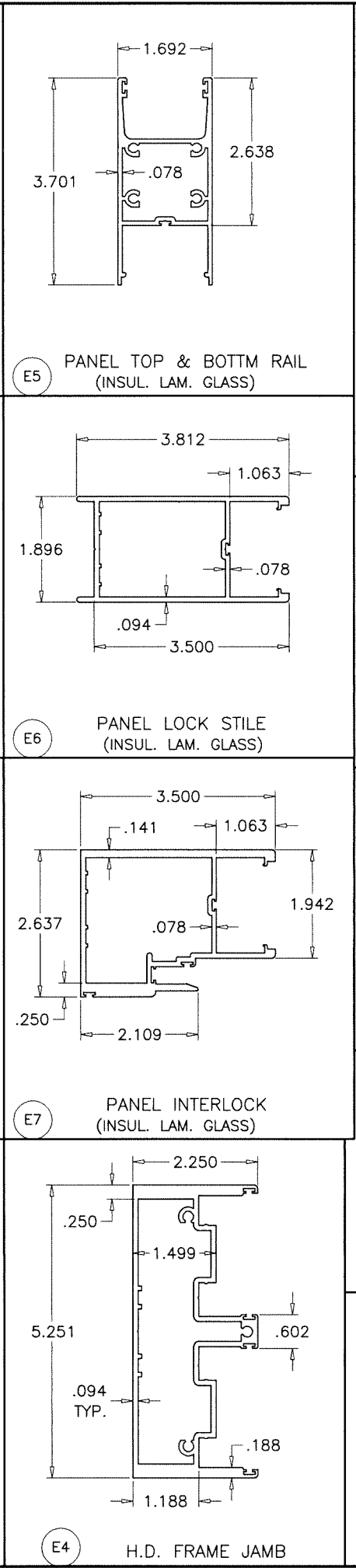
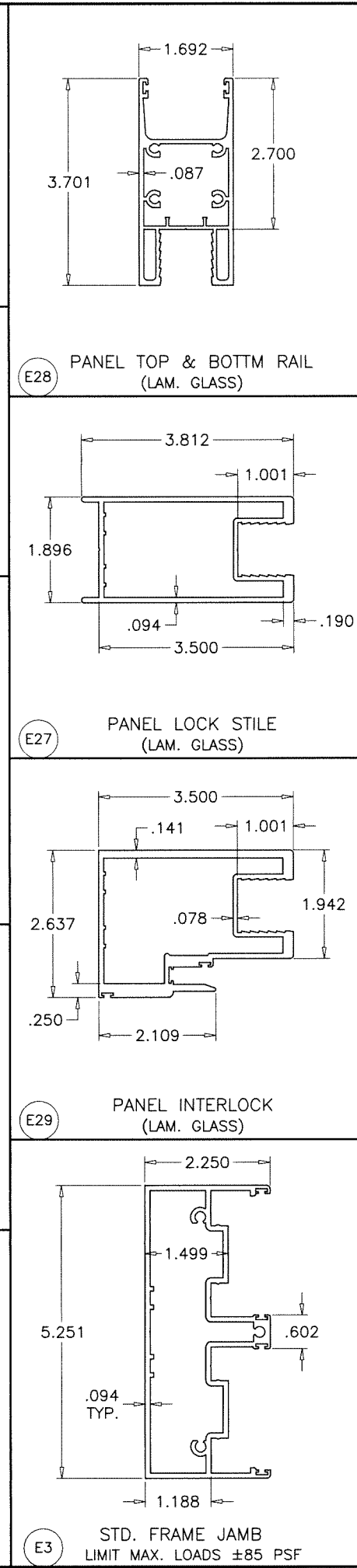
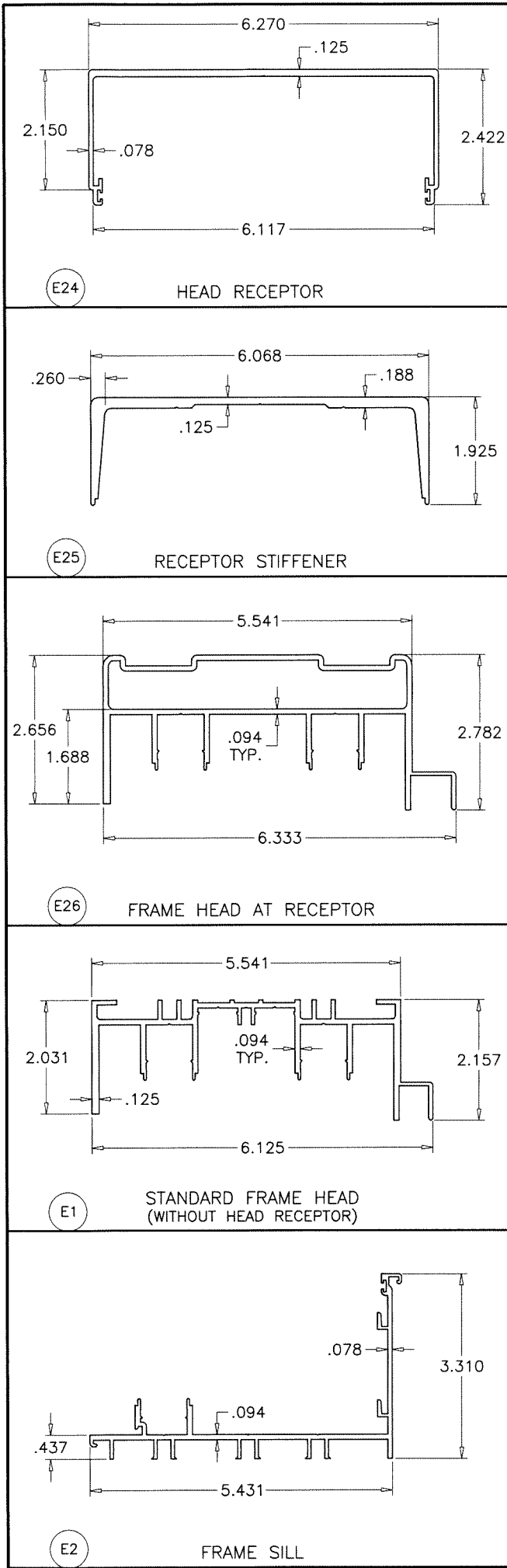
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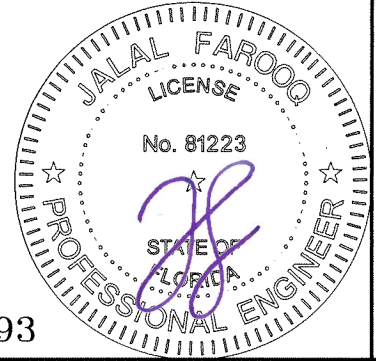
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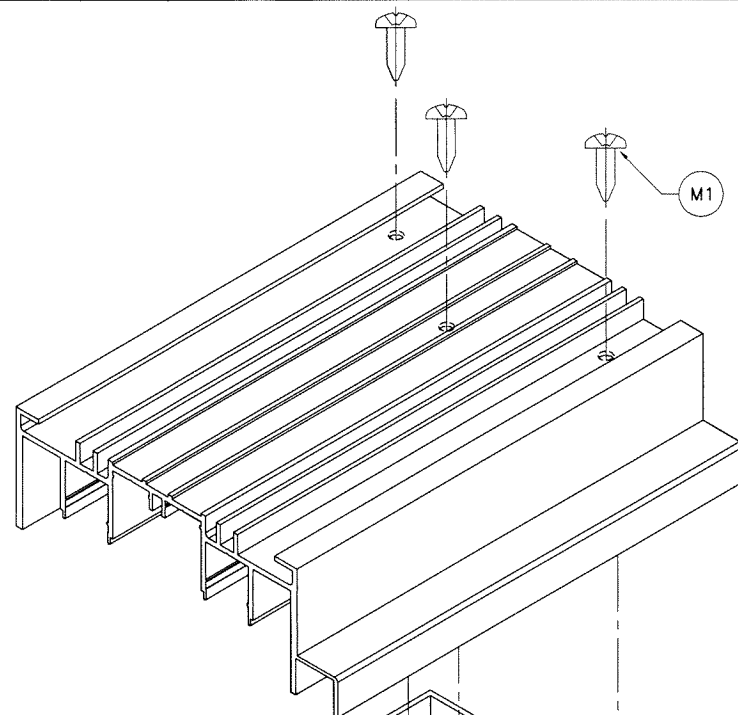
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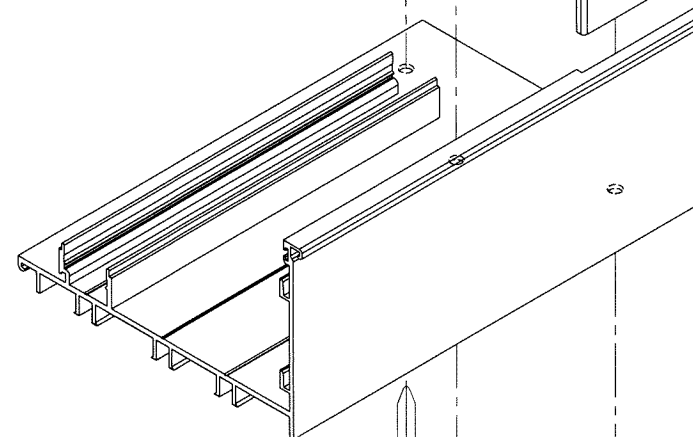
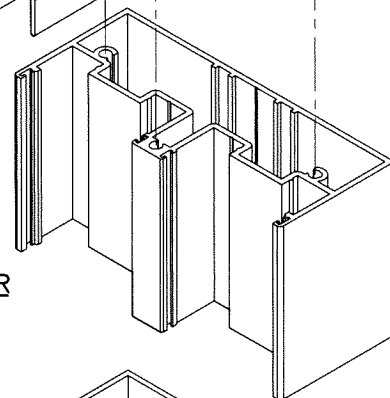
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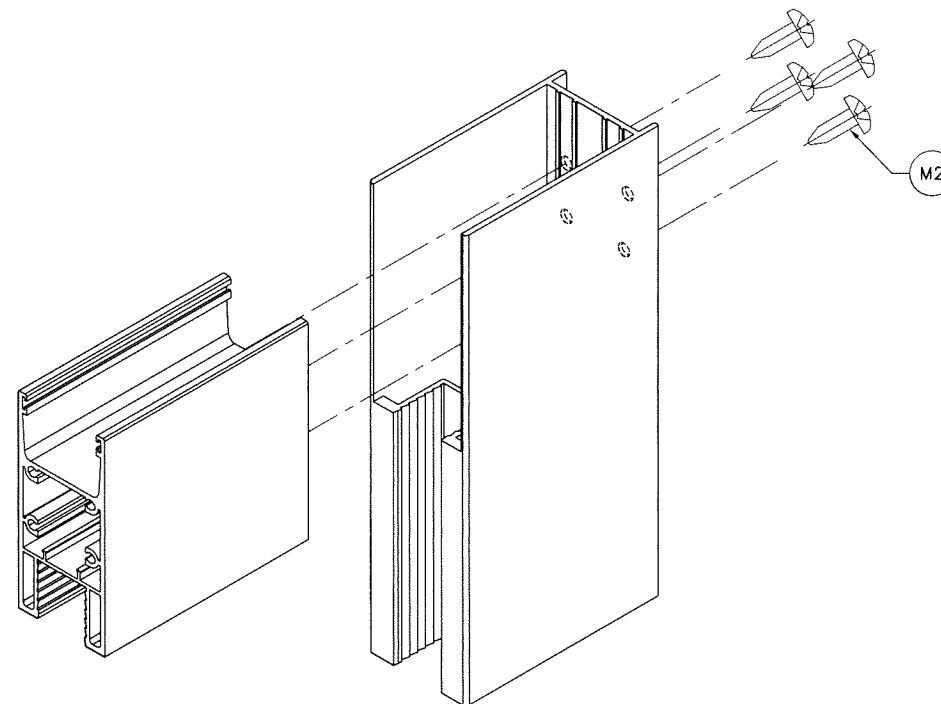
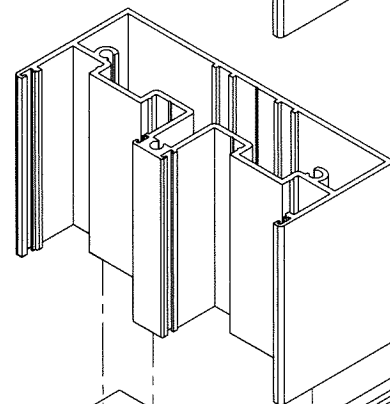
FRAME TOP CORNER

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



FRAME BOTTOM CORNER

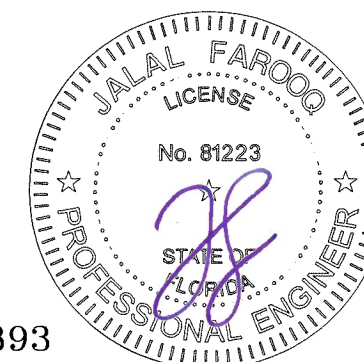
STD. JAMB (SHOWN)
H.D. JAMB (SIMILAR)



PANEL TOP/BOTTOM CORNER

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

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afc

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