

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 SHEET 5 FOR HEAD (WITH OR W/O RECEPTOR) AND 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-6500-3 TRACK
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.

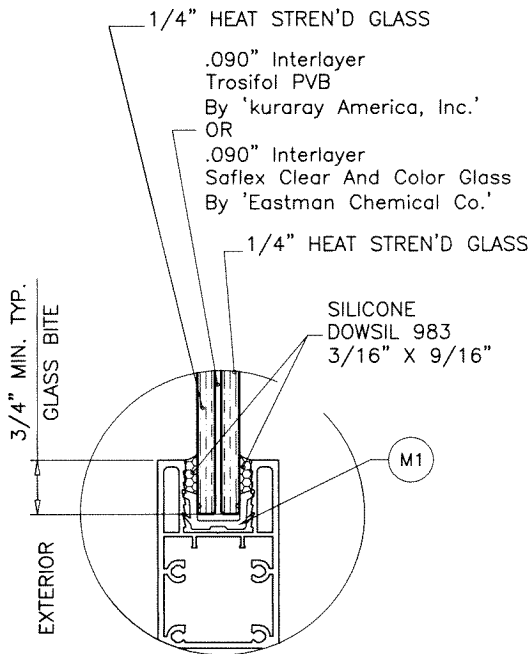
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

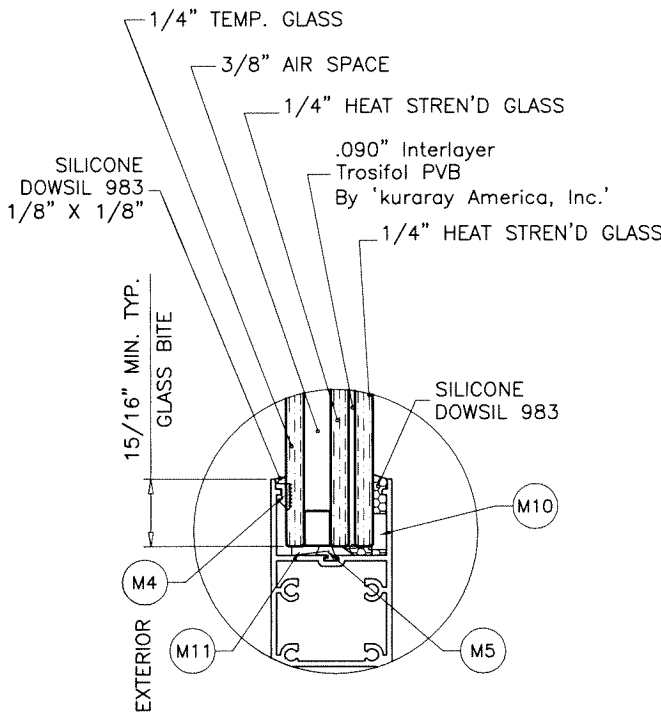
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

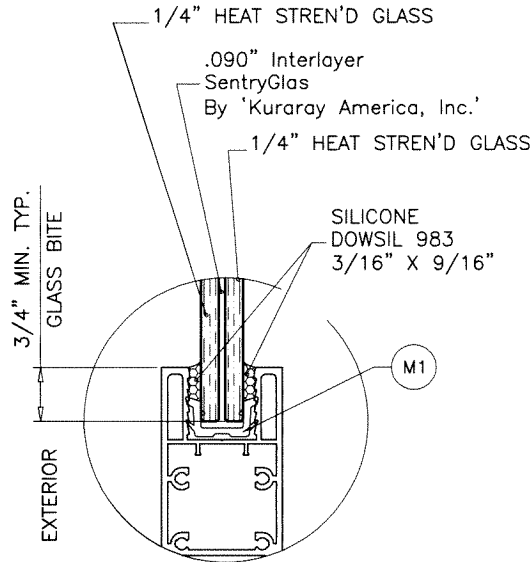
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.



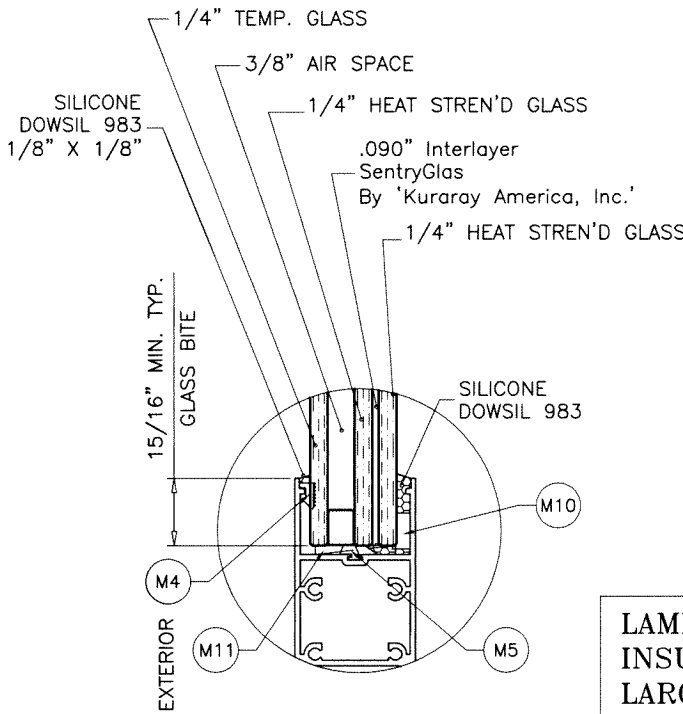
GLASS TYPE 'A'
9/16" OVERALL LAMINATED GLASS



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



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



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

GLAZING OPTIONS

Sealed: 9/15/2023

FL #22973

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

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.

**LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT
3 TRACK SGD SYSTEM**



SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142

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

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

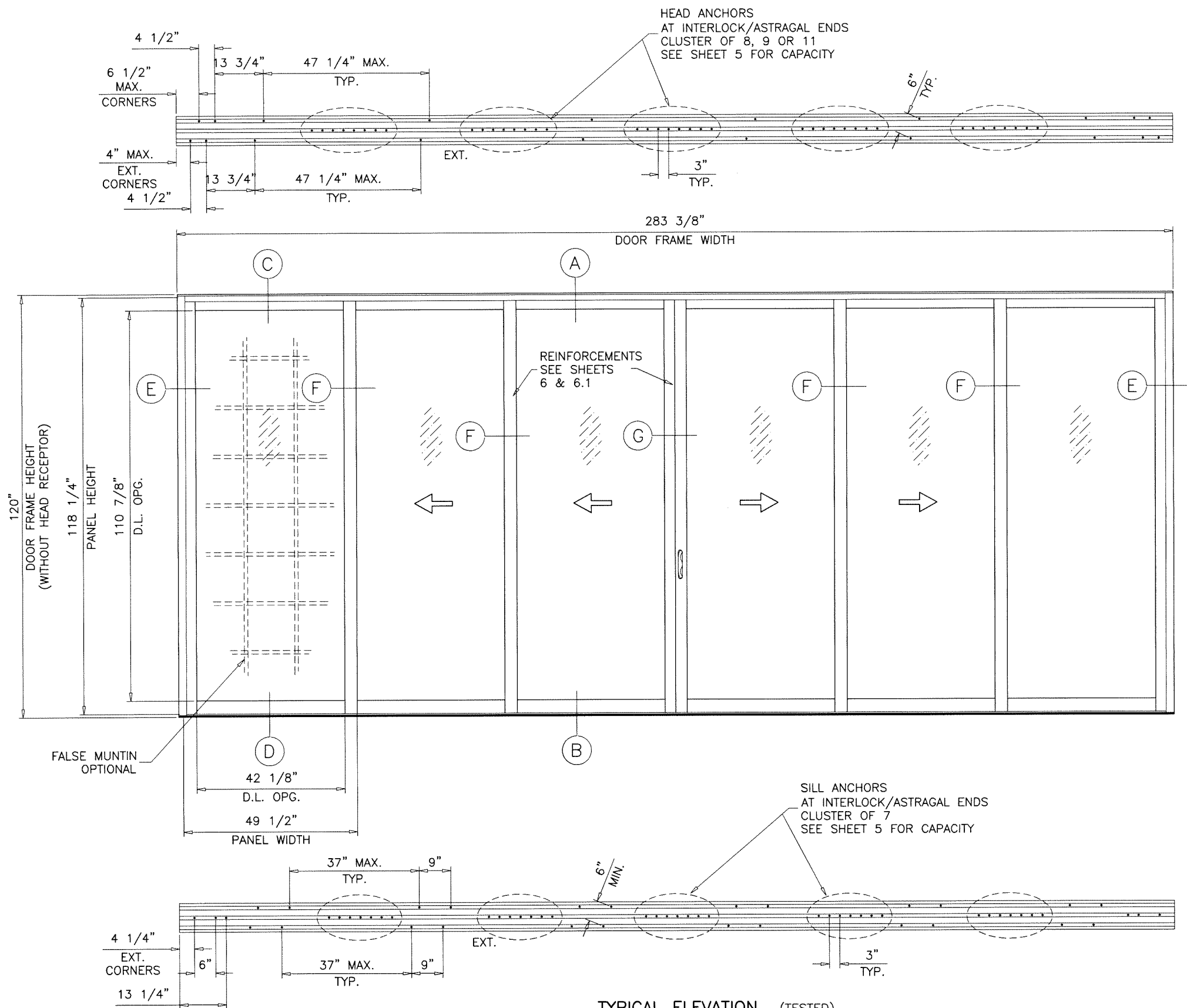
COMP-ANL\W17-69ESW

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	B	09.12.23		UPDATED TO 2023 FBC

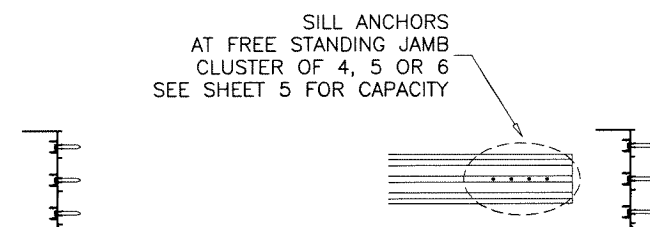
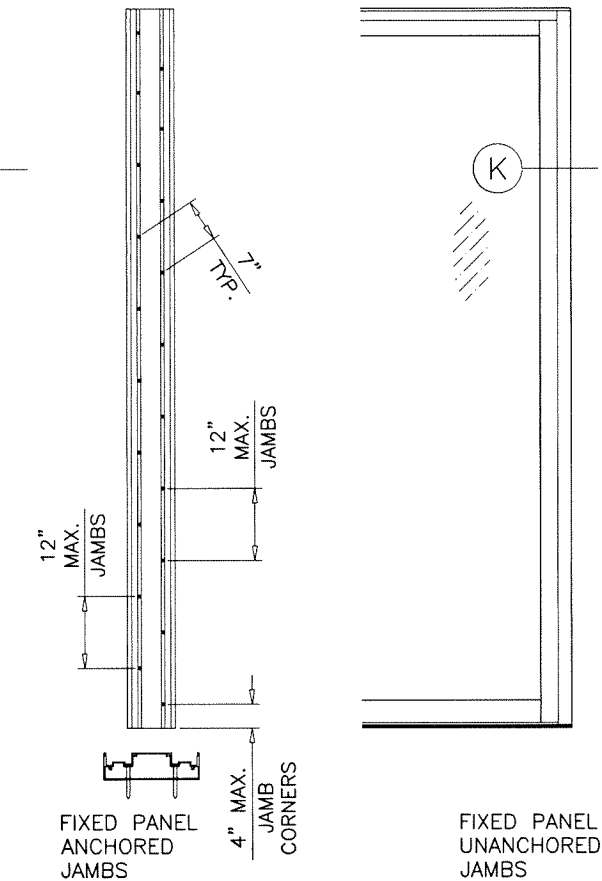
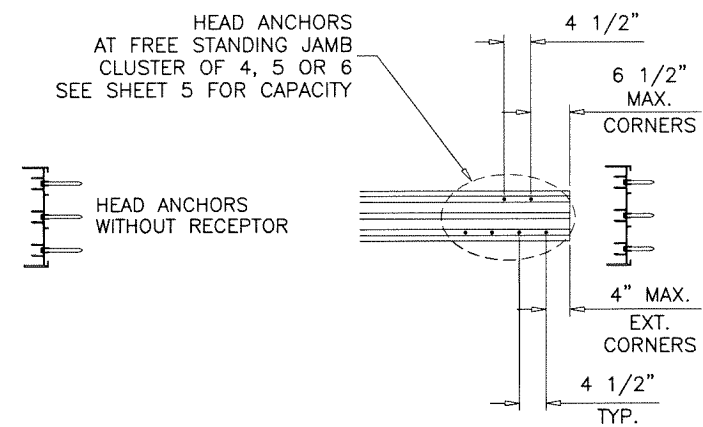
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dr. by:	TARIQ
chk. by:	

drawing no.
W17-69

sheet 1 of 16

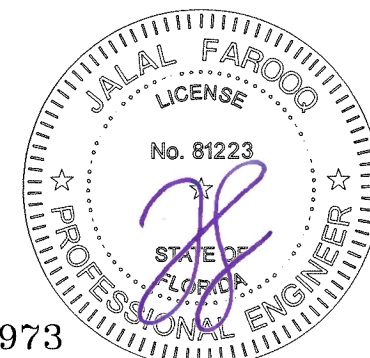


TYPICAL ELEVATION (TESTED)
OXX-XXO (DOORS WITHOUT HEAD RECEPTOR)
 MAX. FRAME AREA NOT TO EXCEED 236.1 SQ. FT.



Sealed: 9/15/2023

FL #22973



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 (C.A.N. 3538)
 COMP-ANL W17-69ESW

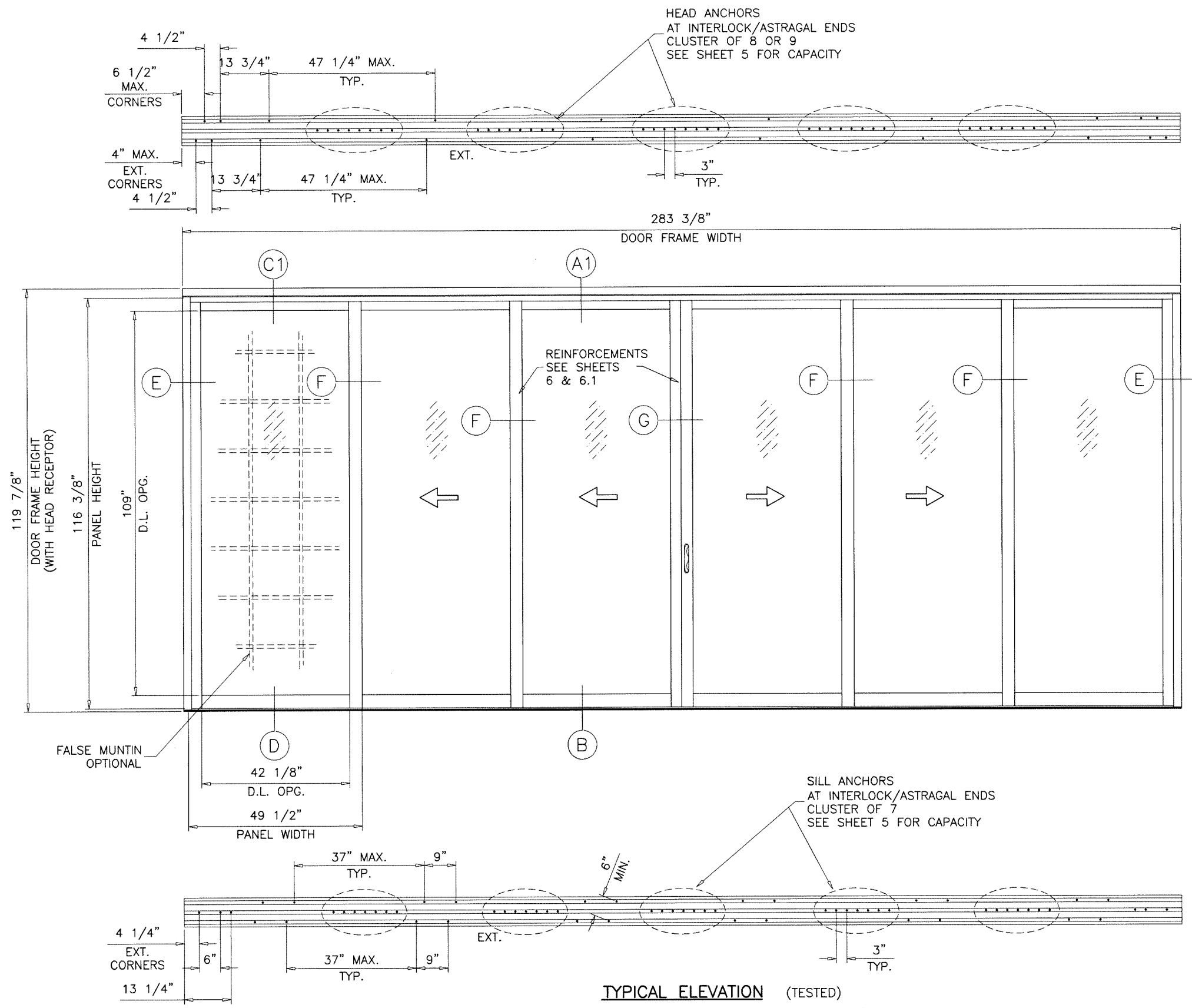
SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

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

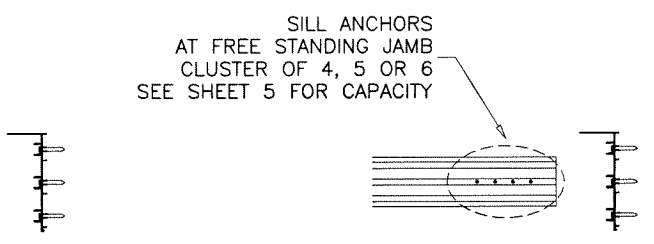
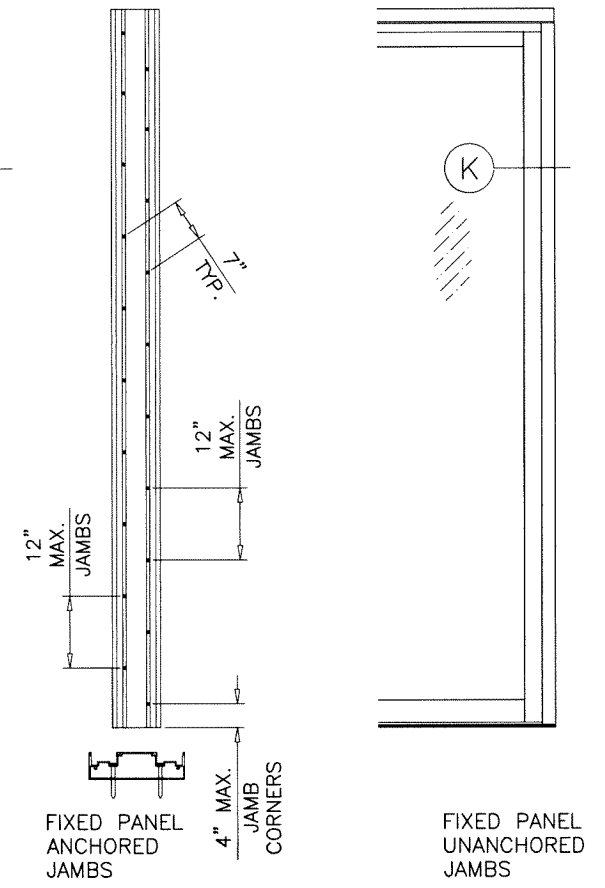
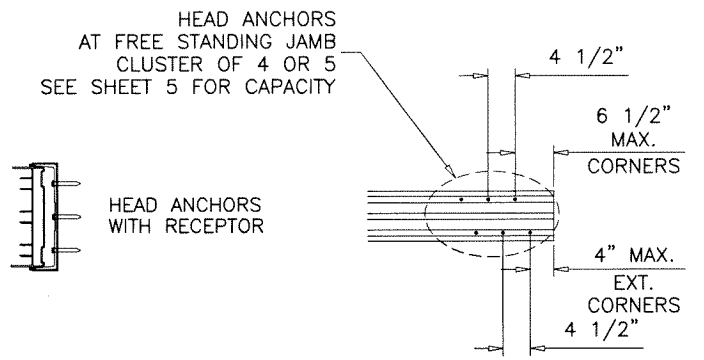
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 dr. by: TARIQ
 chk. by:

drawing no.
W17-69
 sheet 2 of 16



TYPICAL ELEVATION (TESTED)
 OXX-XXO (DOORS WITH HEAD RECEPTOR)
 MAX. FRAME AREA NOT TO EXCEED 235.9 SQ. FT.



Sealed: 9/15/2023

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SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

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revisions:	
no	date by description

date: 07-24-17
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 chk. by:

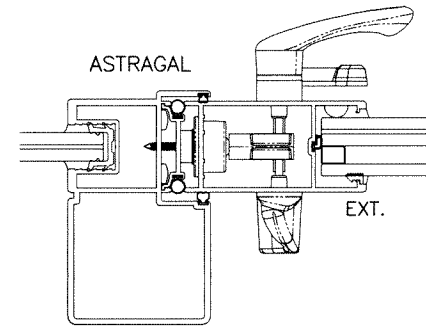
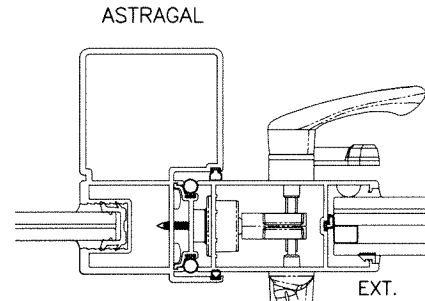
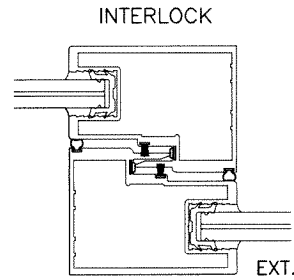
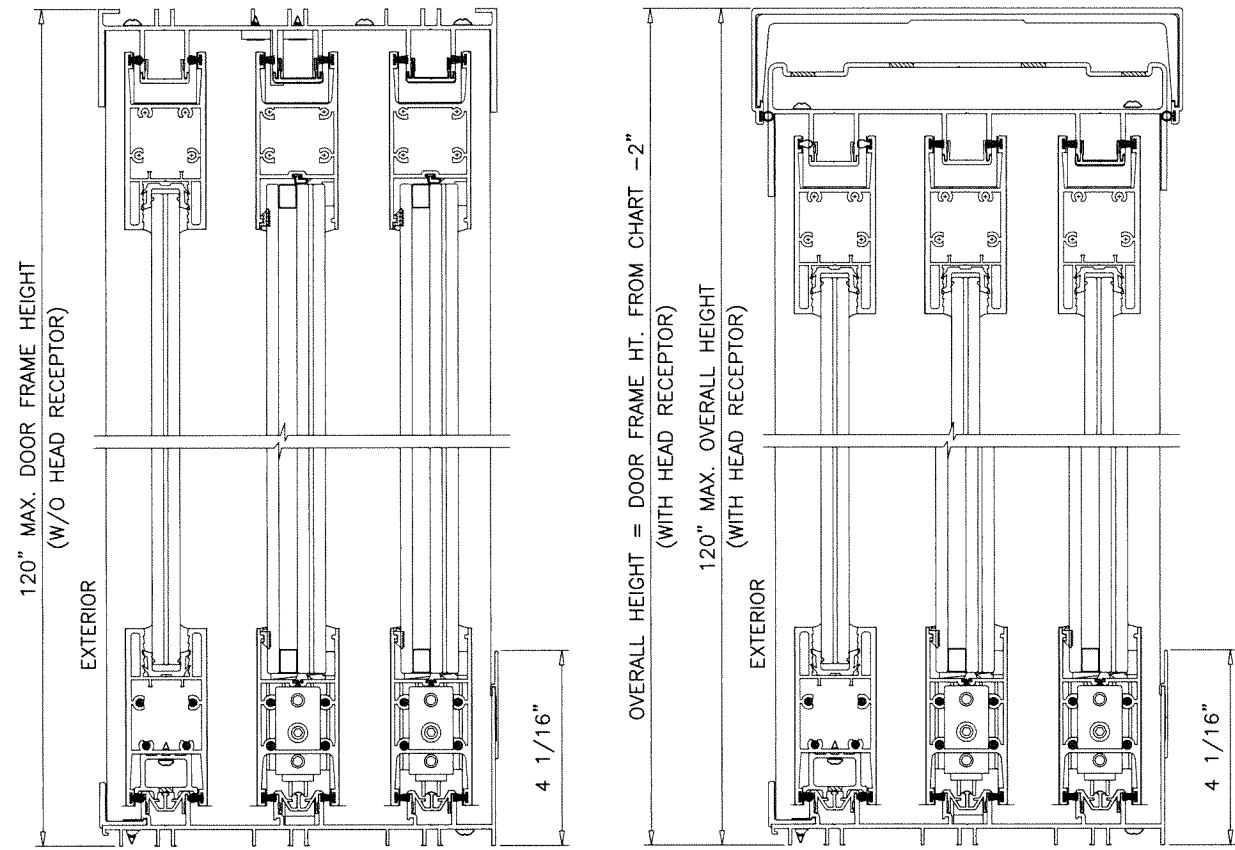
drawing no.
W17-69
 sheet 3 of 16

DESIGN LOAD CAPACITY – PSF (WITH OR WITHOUT HEAD RECEPTOR)							
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	WITHOUT REINFORCING				WITH REINFORCING	
		GLASS 'A' & 'A1'		GLASS 'B' & 'B1'		GLASS 'B' & 'B1'	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36	82	85.0	85.0	85.0	85.0	120.0	135.0
42		85.0	85.0	85.0	85.0	120.0	135.0
48		85.0	85.0	85.0	85.0	120.0	135.0
54		75.6	75.6	75.6	75.6	106.7	120.0
60		–	–	68.0	68.0	96.0	108.0
36	84	85.0	85.0	85.0	85.0	120.0	135.0
42		85.0	85.0	85.0	85.0	120.0	135.0
48		85.0	85.0	85.0	85.0	120.0	135.0
54		75.6	75.6	75.6	75.6	106.7	120.0
60		–	–	68.0	68.0	96.0	108.0
36	90	85.0	85.0	85.0	85.0	120.0	135.0
42		85.0	85.0	85.0	85.0	120.0	135.0
48		85.0	85.0	85.0	85.0	120.0	135.0
54		–	–	75.6	75.6	106.7	120.0
60		–	–	68.0	68.0	96.0	108.0
36	96	85.0	85.0	85.0	85.0	120.0	135.0
42		85.0	85.0	85.0	85.0	120.0	135.0
48		85.0	85.0	85.0	85.0	120.0	135.0
54		–	–	75.6	75.6	106.7	120.0
60		–	–	68.0	68.0	96.0	108.0
36	102	–	–	85.0	85.0	120.0	135.0
42		–	–	85.0	85.0	120.0	135.0
48		–	–	85.0	85.0	120.0	135.0
54		–	–	75.6	75.6	106.7	120.0
36	108	–	–	85.0	85.0	120.0	135.0
42		–	–	85.0	85.0	120.0	135.0
48		–	–	85.0	85.0	120.0	135.0
48		–	–	85.0	85.0	120.0	135.0
36	114	–	–	85.0	85.0	120.0	135.0
42		–	–	85.0	85.0	120.0	135.0
48		–	–	85.0	85.0	120.0	135.0
36	120	–	–	85.0	85.0	120.0	135.0
42		–	–	85.0	85.0	120.0	135.0
48		–	–	85.0	85.0	120.0	135.0

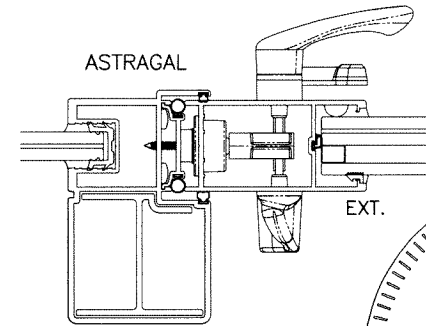
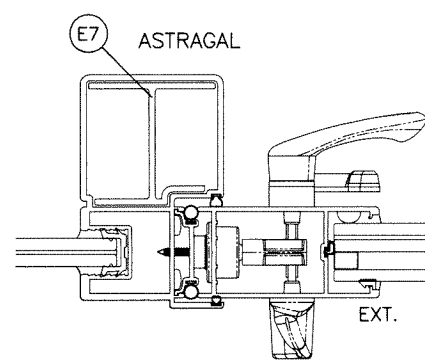
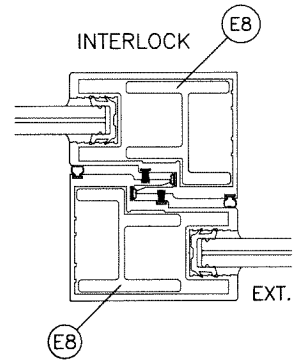
CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.
FOR DOORS WITH HEAD RECEPTORS OVERALL HEIGHT = DOOR FRAME HT. FROM CHART – 2".

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

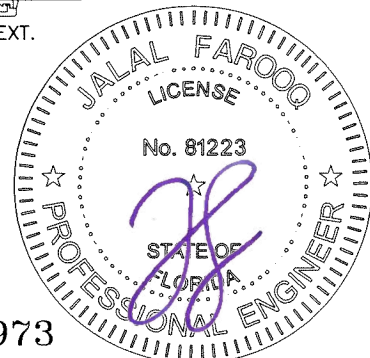


WITHOUT REINFORCING



WITH REINFORCING

Sealed: 9/15/2023



FL #22973

AL-FAROOQ CORPORATION
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revisions:

no	date	by	description

date: 07-24-17

scale: -

dr. by: TARIQ

chk. by: -

drawing no.
W17-69

sheet 4 of 16

HEAD ANCHOR LOAD CAPACITY – PSF (DOORS WITHOUT HEAD RECEPTOR) (APPLICABLE TO SHEET 2 ELEVATION)											
ANCHOR TYPE		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'						ANCHOR '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. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	9 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	9 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	9 ANCHORS AT MTG. STILE ENDS	11 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	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
48		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
60		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
42		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
54		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
36	90	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
48		135.0	135.0	135.0	135.0	135.0	135.0	131.1	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
60		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
42		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	128.5	135.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	114.2	120.0	120.0	120.0
60		108.0	108.0	108.0	108.0	108.0	108.0	102.8	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
42		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	120.9	133.0	135.0	135.0
54		120.0	120.0	120.0	120.0	120.0	120.0	107.5	118.3	120.0	120.0
36	108	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	130.5	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	114.2	125.6	135.0	135.0
36	114	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	123.7	135.0	135.0	135.0
48		135.0	135.0	135.0	135.0	135.0	135.0	108.2	119.0	135.0	135.0
36	118–1/8	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	119.4	131.3	135.0	135.0
48		135.0	132.6	135.0	135.0	132.6	135.0	104.4	114.9	135.0	135.0
36	120	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	117.5	129.2	135.0	135.0
48		135.0	130.6	135.0	135.0	130.6	135.0	102.8	113.1	133.6	135.0
		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

CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.

LIMIT ALL EXTERIOR LOADS TO +120.0 PSF MAX. FOR REINFORCED SGD SYSTEM PER SHEETS 4 & 6
LIMIT ALL EXT./INT. LOADS TO ±85.0 PSF MAX. FOR UN-REINFORCED SGD SYSTEM PER SHEETS 4 & 6.1

SEE CHART ON SHEET 4 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.

HEAD ANCHOR LOAD CAPACITY – PSF (DOORS WITH HEAD RECEPTOR) (APPLICABLE TO SHEET 3 ELEVATION)			
ANCHOR TYPE		ANCHOR TYPE 'D'	
SHIM SPACE		1/4" MAX. SHIM	
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	8 ANCHORS AT MTG. STILE ENDS	9 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
36	108	135.0	135.0
42		135.0	135.0
48		135.0	135.0
36	114	135.0	135.0
42		135.0	135.0
48		134.0	135.0
36	118–1/8	135.0	135.0
42		135.0	135.0
48		134.0	135.0
36	119–7/8	135.0	135.0
42		135.0	135.0
48		126.0	135.0
		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 'BB'
SHIM SPACE		1/4" SHIM
PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	7 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)
36	82	135.0
42		135.0
48		135.0
54		120.0
60		108.0
36	84	135.0
42		135.0
48		135.0
54		120.0
60		108.0
36	90	135.0
42		135.0
48		135.0
54		120.0
60		108.0
36	96	135.0
42		135.0
48		135.0
54		120.0
60		108.0
36	102	135.0
42		135.0
48		135.0
54		120.0
36	108	135.0
42		135.0
48		135.0
36	114	135.0
42		135.0
48		135.0
36	118-1/8	135.0
42		135.0
48		135.0
36	120	135.0
42		135.0
48		135.0
		4 ANCHORS AT FREE STANDING JAMB ENDS



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FL #22973



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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-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

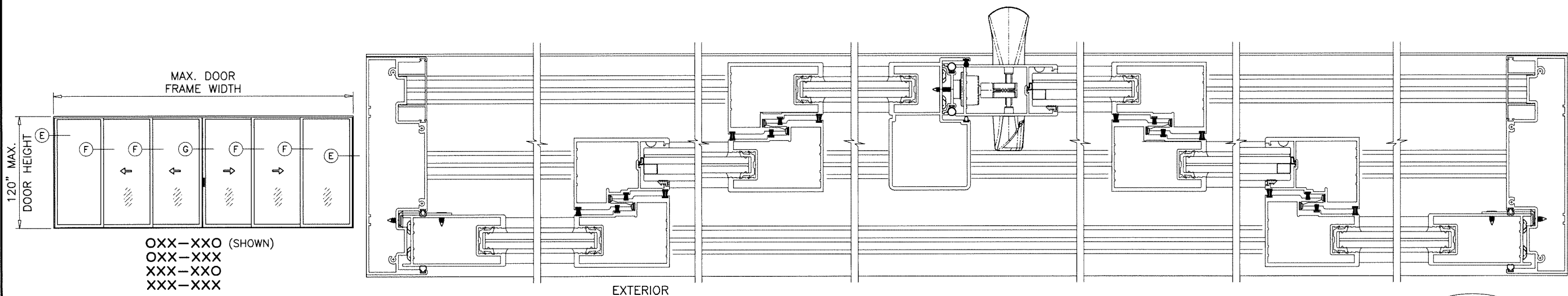
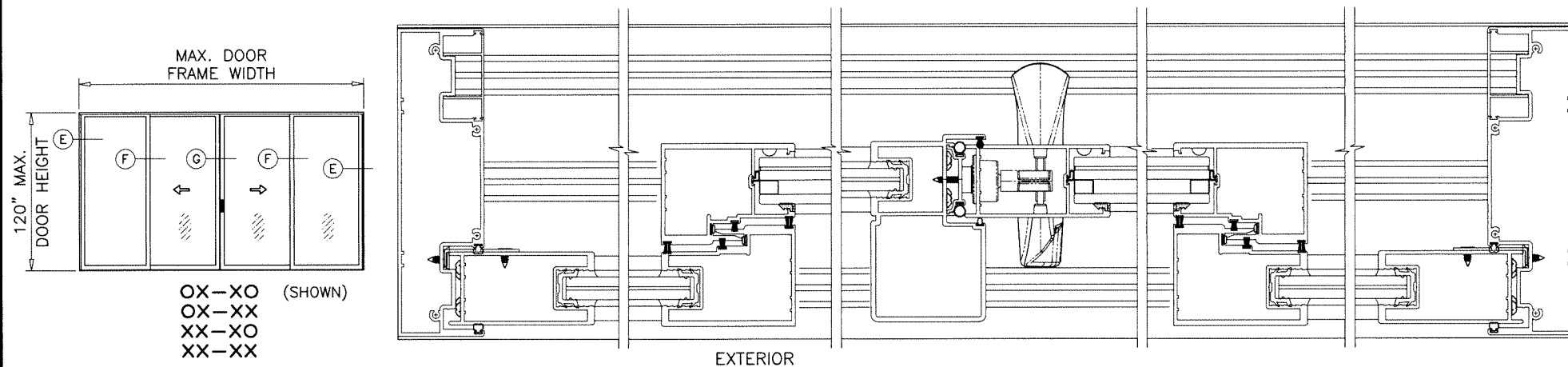
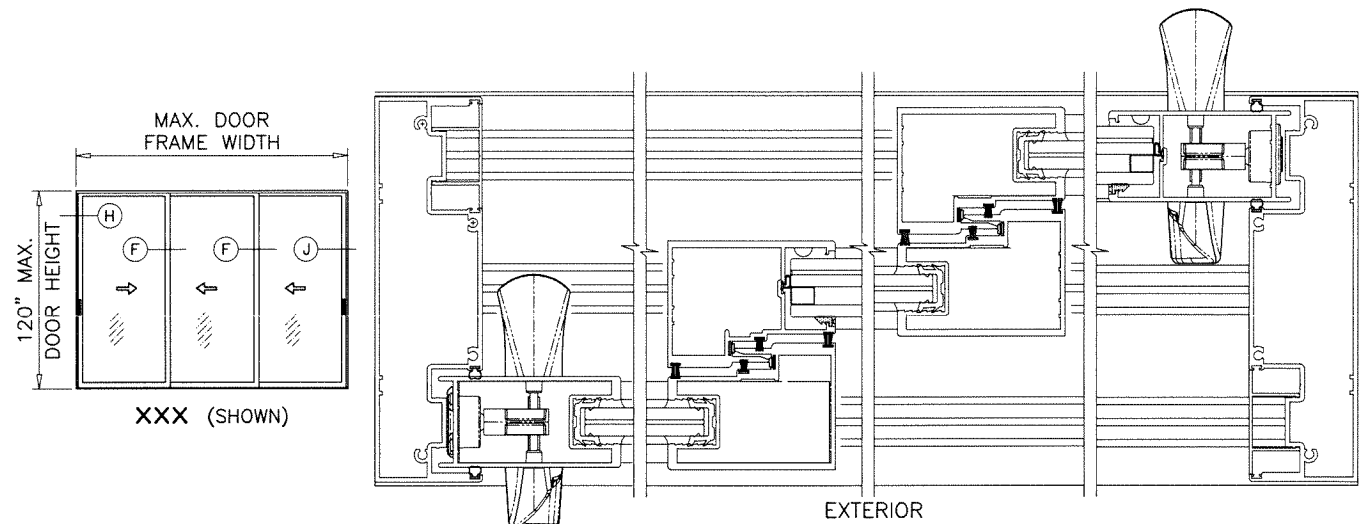
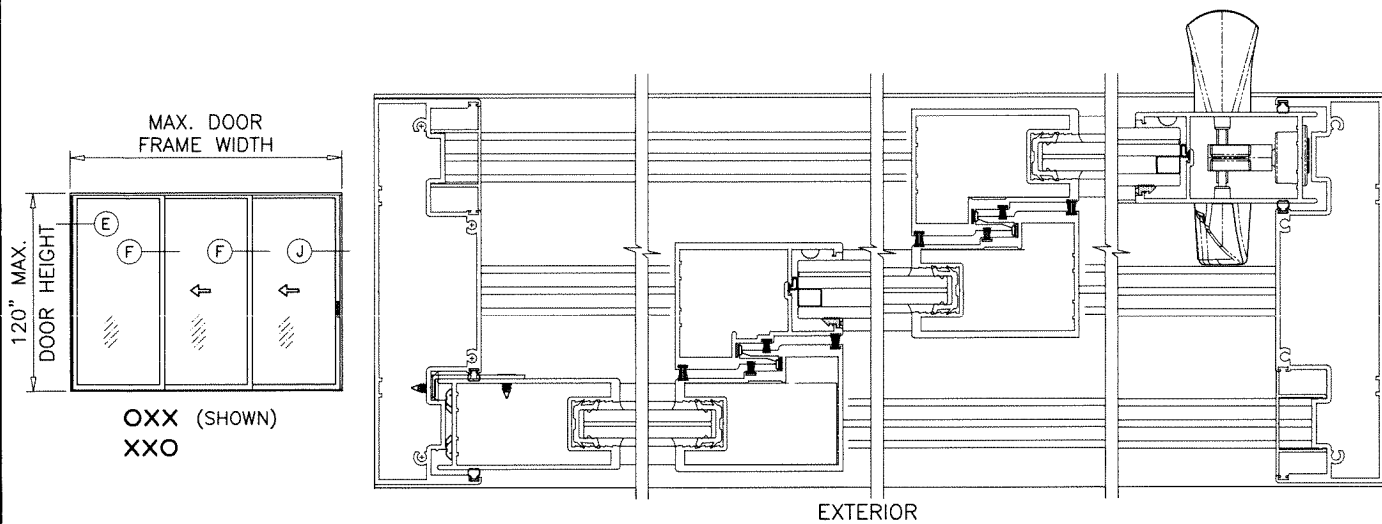
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no date by description

date: 07-24-17
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drawing no.
W17-69
sheet 5 of 16

COMP-ANL\W17-69ESW



NOTE:

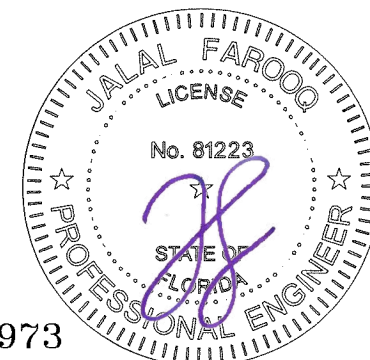
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 4.
3. FOR ANCHOR DETAILS SEE SHEETS 7 THRU 11.

3-TRACKS UN-REINFORCED S.G.D.

APPROVED CONFIGURATIONS

MAX. 6 PANELS OR LESS
MAX. FRAME AREA NOT TO EXCEED 236.1 SQ. FT. (DOORS WITHOUT HEAD RECEPTORS)
MAX. FRAME AREA NOT TO EXCEED 235.9 SQ. FT. (DOORS WITH HEAD RECEPTORS)

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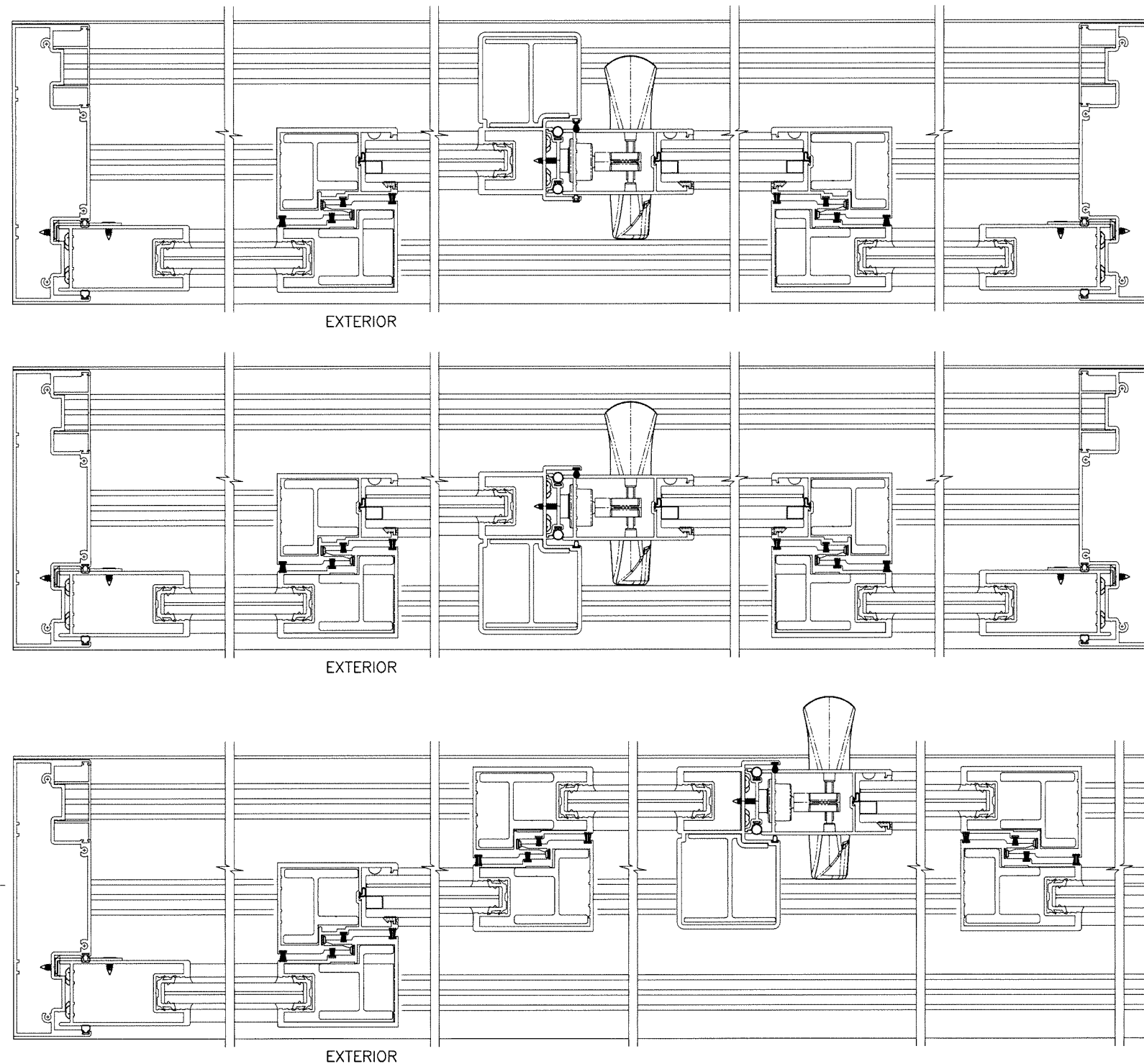
FL #22973

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9360 SUNSET DRIVE, SUITE 220
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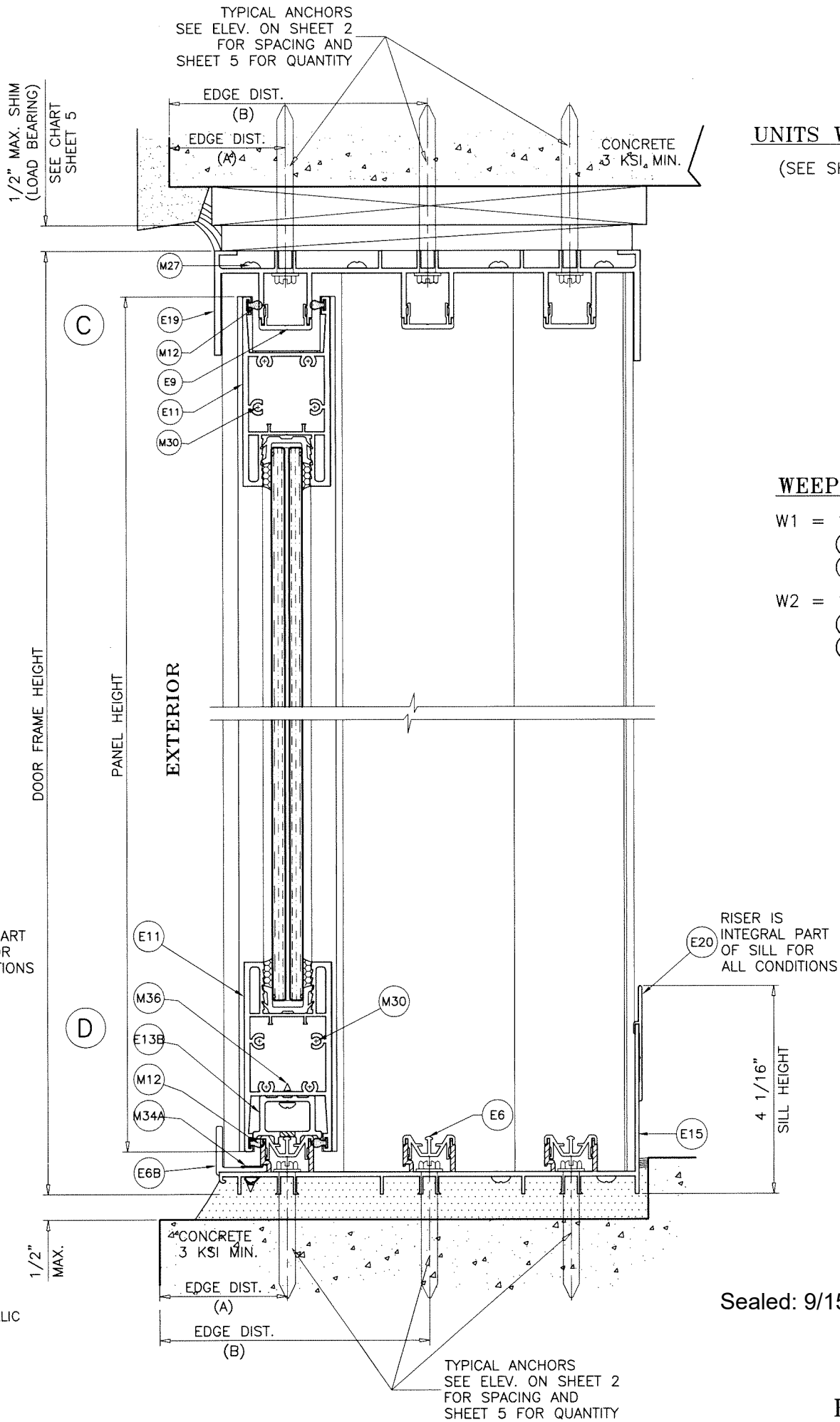
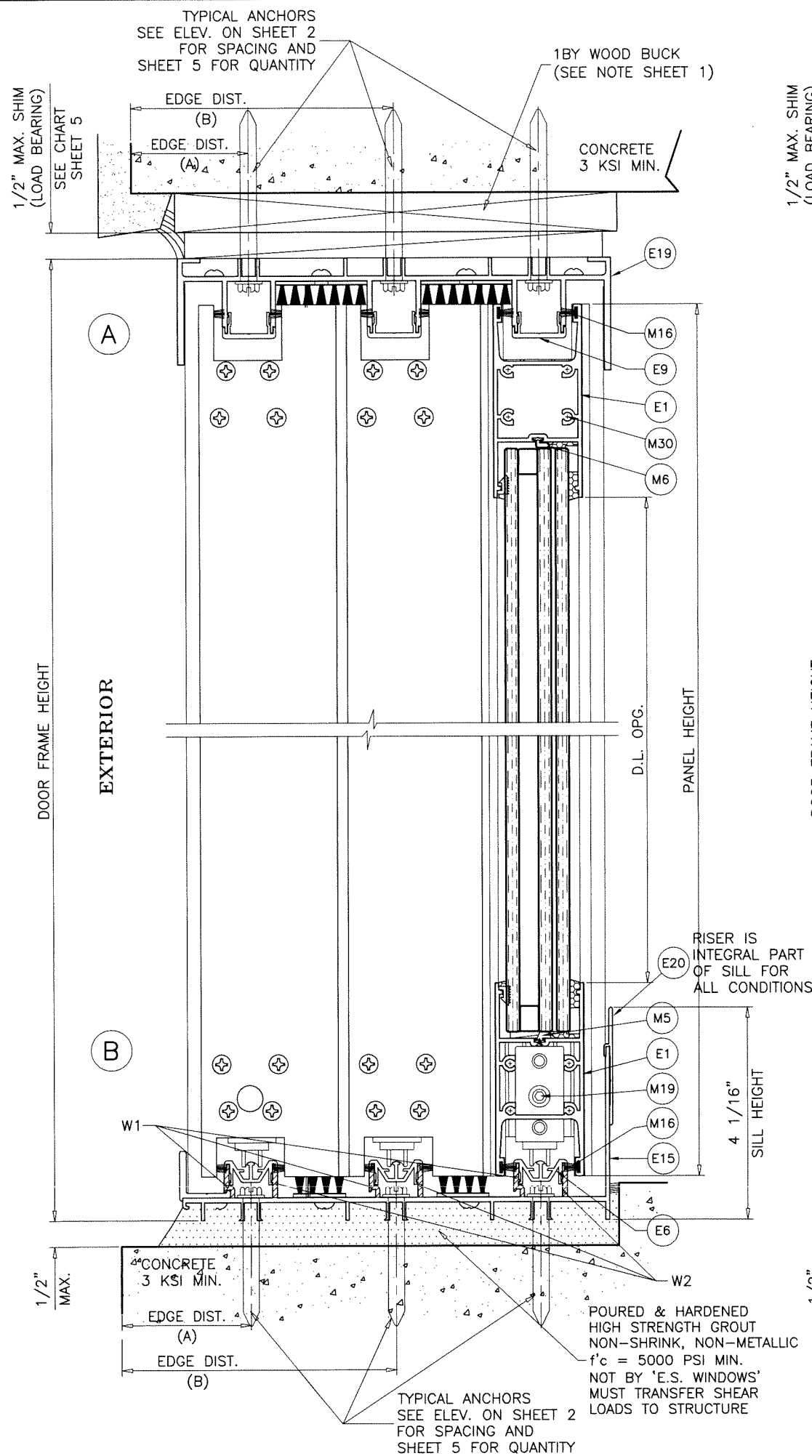
SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

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MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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drawing no.	W17-69		
sheet	6 of 16		



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drawing no. W17-69				
sheet 6.1 of 16				



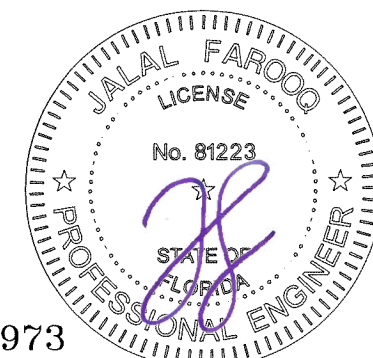
UNITS WITHOUT HEAD RECEPTORS

(SEE SHEET 9 WITH HEAD RECEPTOR)

WEEPHOLES:

- W1 = 1/2" LONG WEEP NOTCHES
(1) AT 7" FROM EACH END
(2) AT MIDSPAN AT 16" O.C.
- W2 = 1/2" LONG WEEP NOTCHES
(1) AT 10" FROM EACH END
(2) AT MIDSPAN AT 16" O.C.

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dr. by: TARIQ
chk. by:

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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 'A'—** 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY WOOD BUCKS INTO CONCRETE
1-3/8" MIN. EMBED INTO CONCRETE
- TYPE 'B'—** 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE
1-3/4" 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. ($F_y = 36$ 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' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED

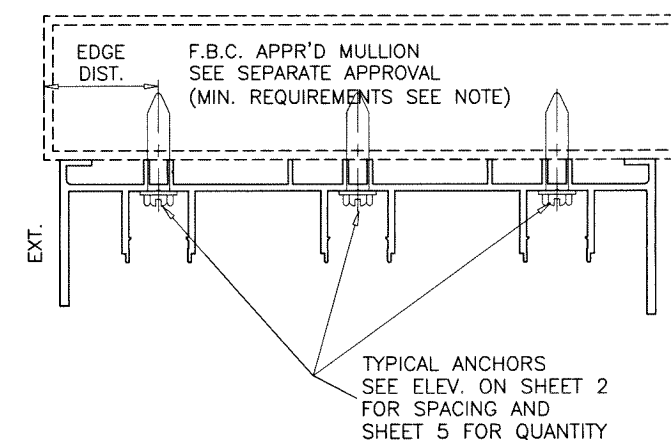
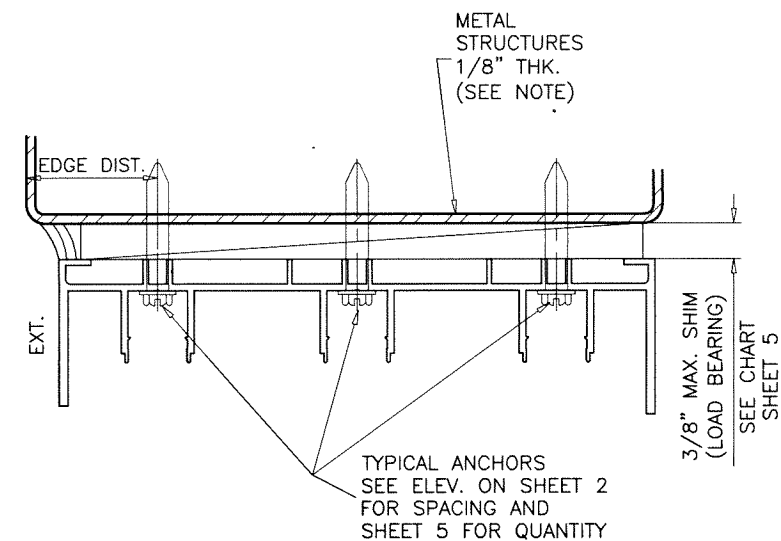
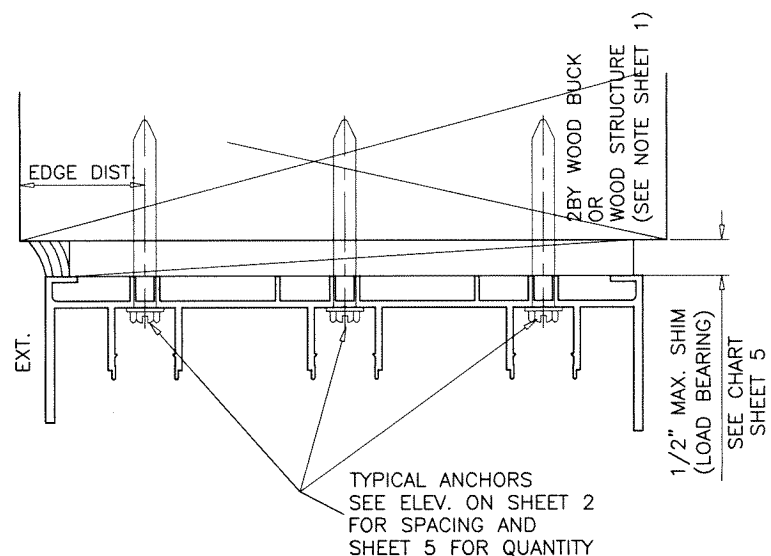
AT JAMBS (FOR DOORS WITH OR WITHOUT HEAD RECEPTOR)

- 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS
DIRECTLY INTO CONCRETE OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE
1-1/4" MIN. EMBED INTO BLOCKS
- 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. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES:

INTO CONCRETE (A) = 1-3/8" MIN. (EXT. OR INT. TRACKS AT HEAD/SILL)
INTO CONCRETE (B) = 2-1/2" MIN. (MIDDLE TRACK AT HEAD/SILL)
INTO MASONRY = 2" 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 FOR UNITS WITHOUT HEAD RECEPTORS



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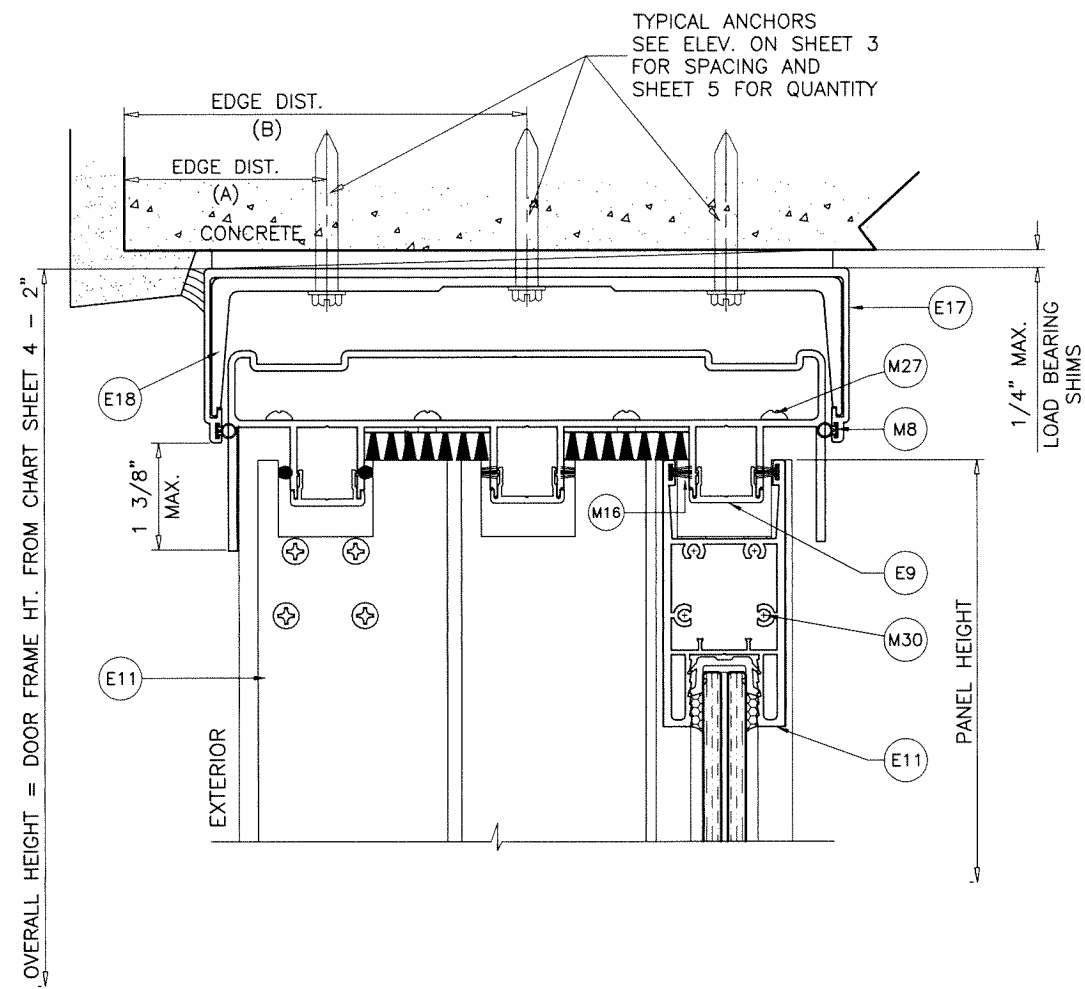
SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

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MIAMI, FL. 33142
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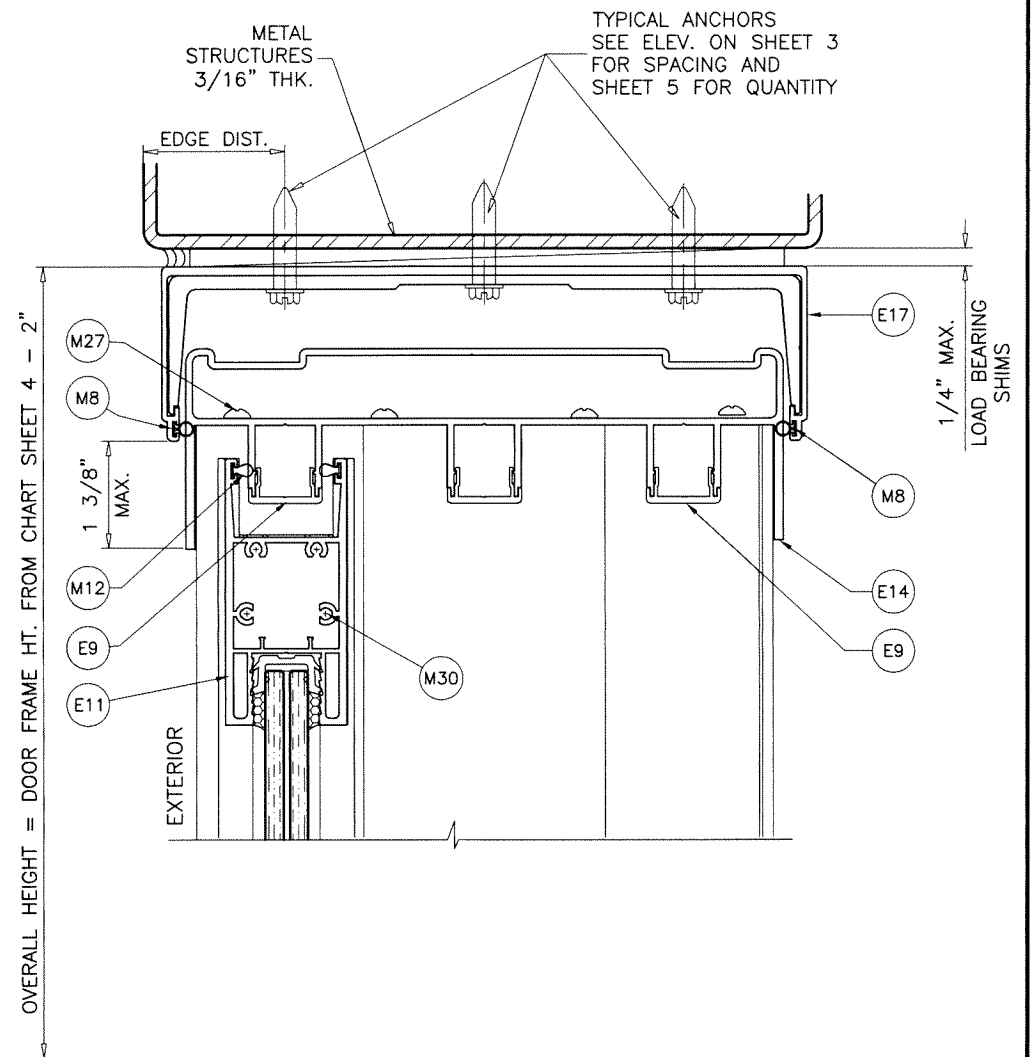
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drawing no. W17-69			
sheet 8 of 16			

A1
OPTIONAL



C1
OPTIONAL



UNITS WITH HEAD RECEPTORS

HEAD RECEPTOR MOUNT SHOWN,
SEE ELEVATION ON SHEET 3,
DESIGN LOAD CAPACITY ON SHEET 4,
AND ANCHOR CAPACITY CHART IN SHEET 5

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

— AT HEAD (FOR DOORS WITH RECEPTOR) —

TYPE 'D'— **5/16" DIA. ULTRACON BY 'DEWALT'** ($F_u=177$ KSI, $F_y=155$ KSI)

DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED

5/16" 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. ($F_y = 36$ KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

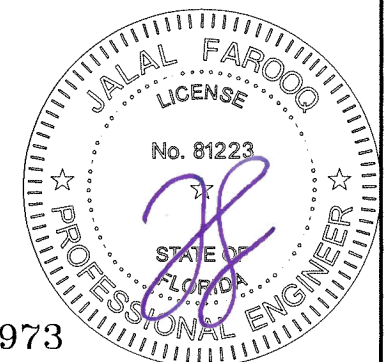
INTO CONCRETE (A) = 1-3/8" MIN. (EXT. OR INT. TRACKS AT HEAD/SILL)

INTO CONCRETE (B) = 2-1/2" MIN. (MIDDLE TRACK AT HEAD/SILL)

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

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

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FL #22973

afc

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revisions:	
no	by description

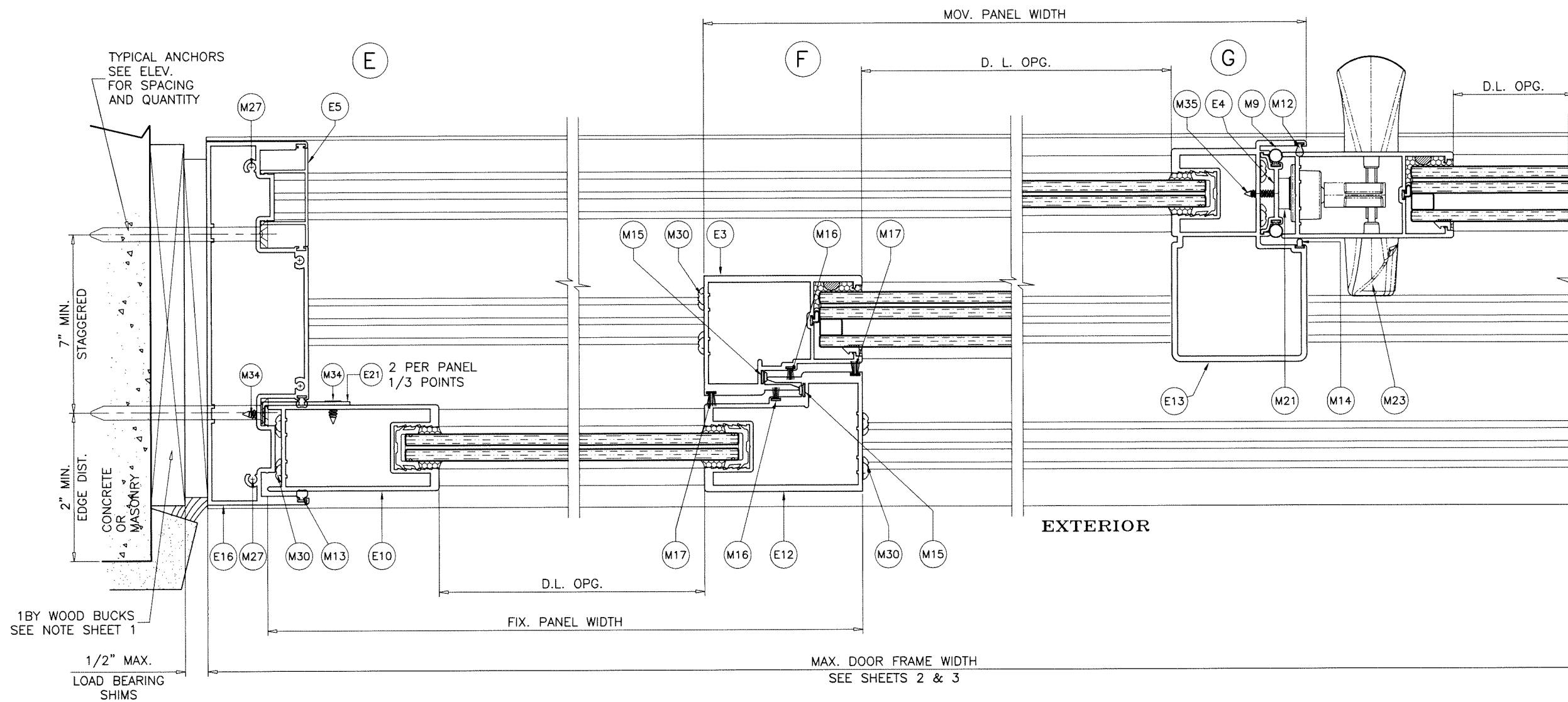
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W17-69

sheet 9 of 16

COMP-ANL\W17-69ESW



3-TRACKS UN-REINFORCED S.G.D.

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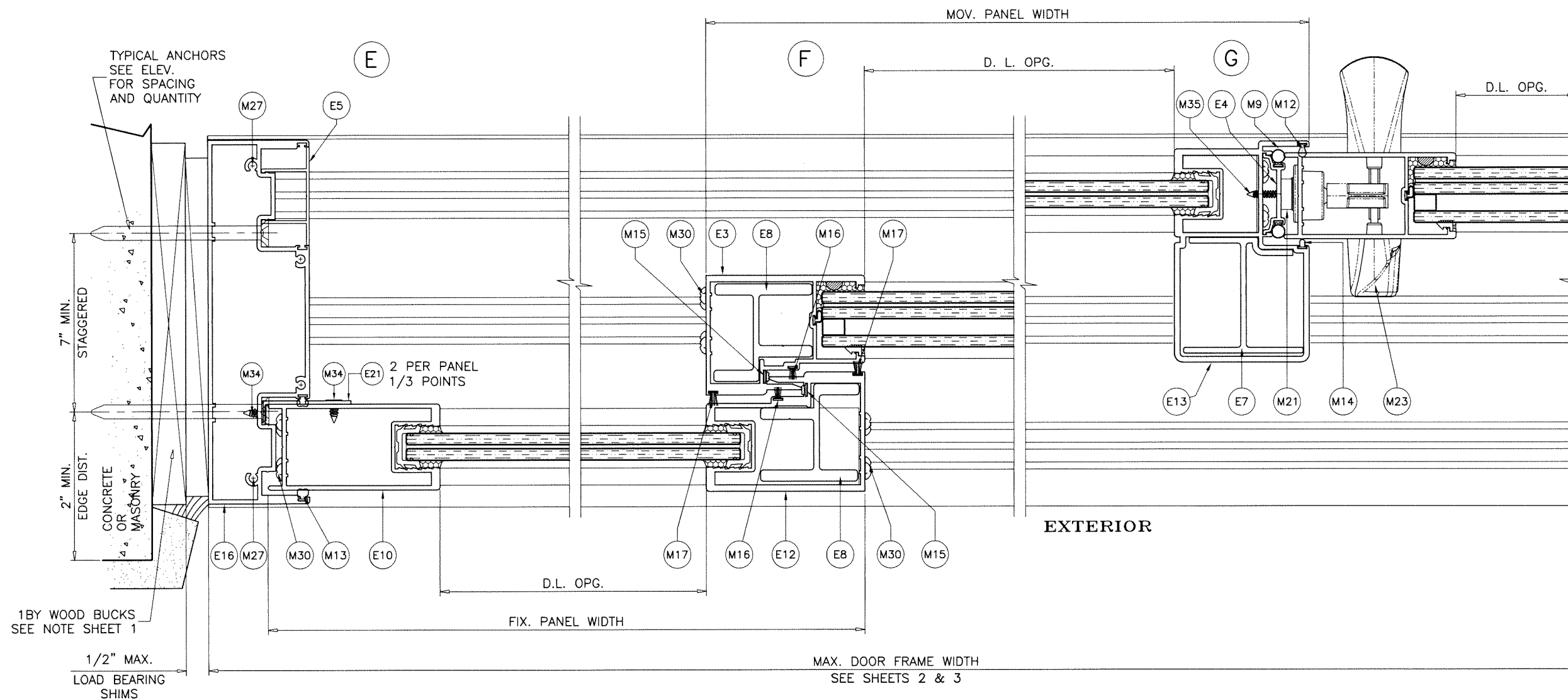
SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

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date: 07-24-17
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dr. by: TARIQ
chk. by:

drawing no.
W17-69
sheet 10 of 16



3-TRACKS REINFORCED S.G.D.

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FL #22973



SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

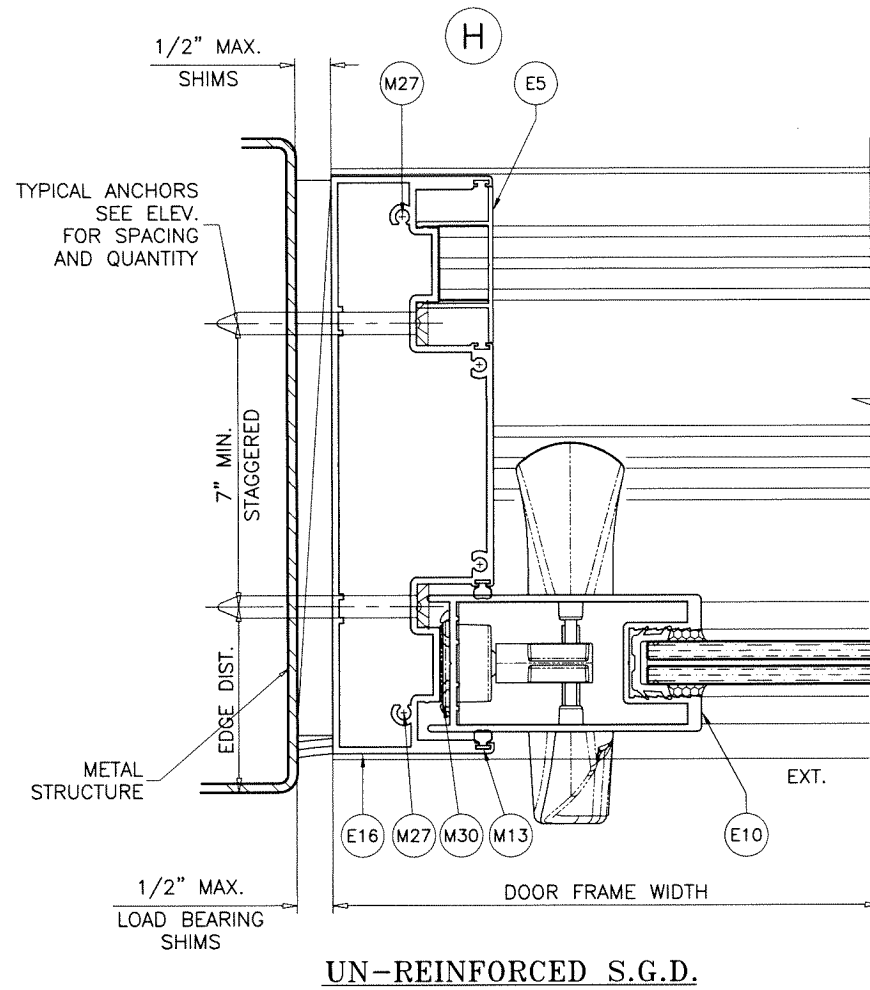
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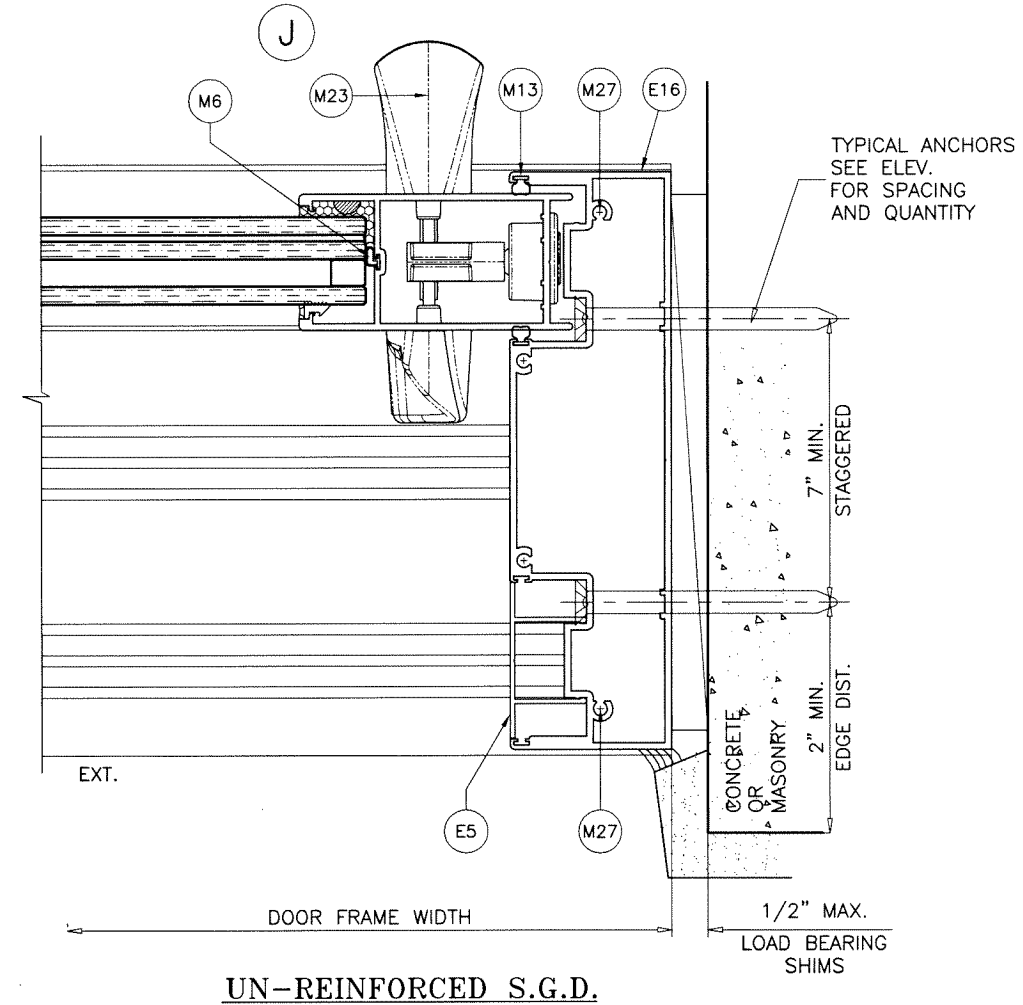
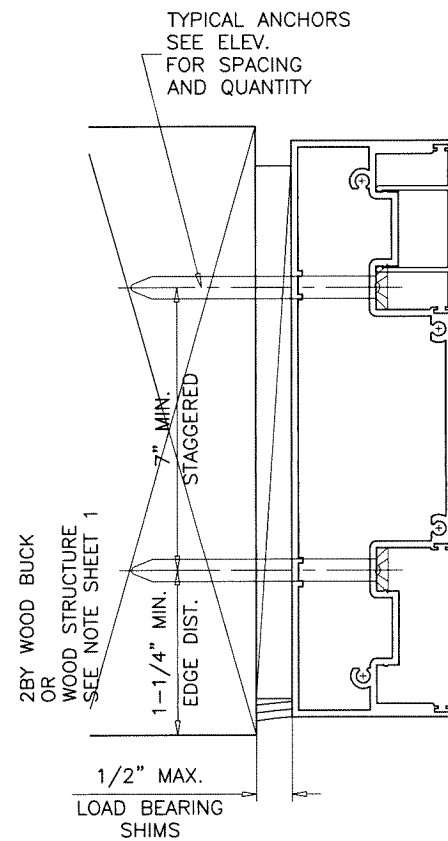
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drawing no.
W17-69
sheet 10.1 of 16



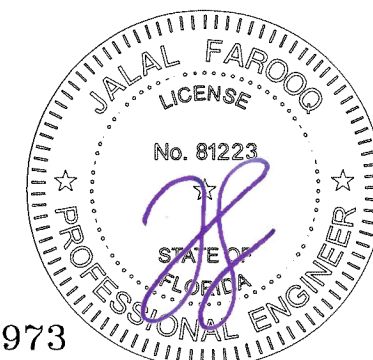
UN-REINFORCED S.G.D.



UN-REINFORCED S.G.D.

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drawing no.
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FREE STANDING JAMB DESIGN LOAD CAPACITY - PSF					
NOM. PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	UN-REINFORCED SGD FIX./OPERABLE PANELS		REINFORCED SGD FIX. PANELS ONLY	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	84	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
60		85.0	85.0	120.0	135.0
36	90	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
60		85.0	85.0	120.0	135.0
36	96	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
60		85.0	85.0	120.0	135.0
36	102	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
60		85.0	85.0	120.0	135.0
36	108	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
60		85.0	85.0	120.0	135.0
36	114	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
60		85.0	85.0	120.0	135.0
36	118-1/8	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
60		85.0	85.0	120.0	135.0
36	120	85.0	85.0	120.0	135.0
42		85.0	85.0	120.0	135.0
48		85.0	85.0	120.0	135.0
54		85.0	85.0	120.0	135.0
60		85.0	85.0	120.0	135.0

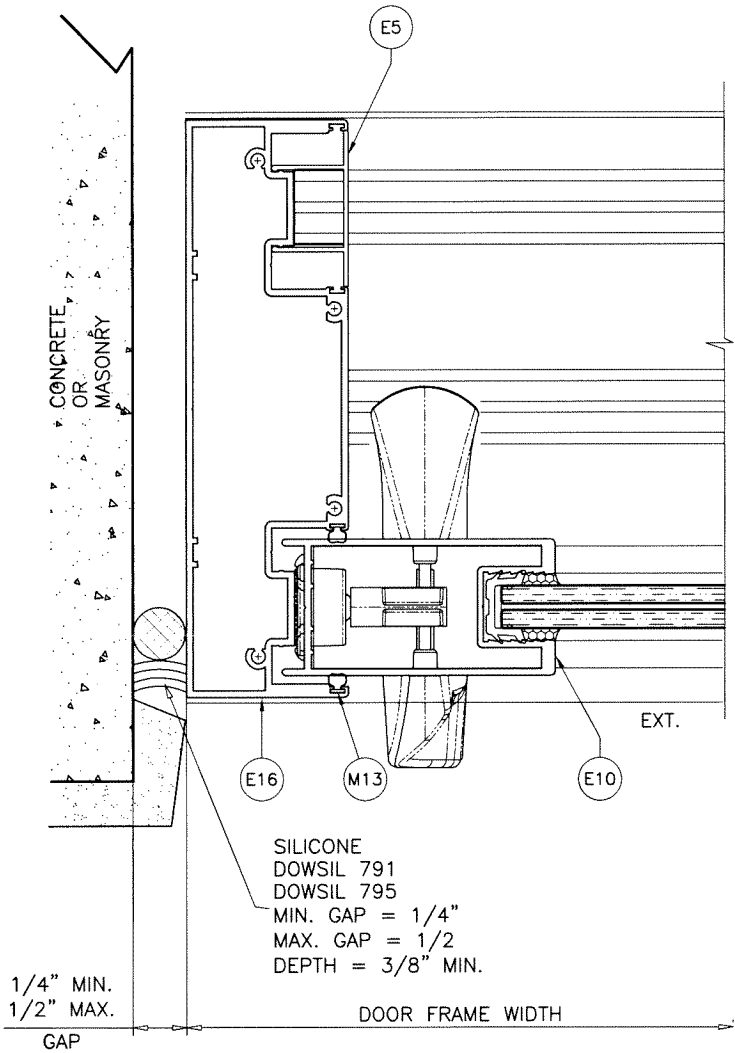
DOWSIL 791 = 50% STRETCH
DOWSIL 795 = 100% STRETCH

ALLOWABLE LOADS FOR DOOR HEIGHTS VERSUS 50% OR 100% STRETCH SILICONES (SEE DESIGN LOAD CAPACITY ON SHEET 4)				
DOOR HEIGHT	1/4" MIN. GAP		3/8" MIN. GAP	
	50%	100%	50%	100%
96"	135 PSF	135 PSF	135 PSF	135 PSF
114"	85 PSF	135 PSF	135 PSF	135 PSF
120"	-	-	-	135 PSF
MAXIMUM GAP = 1/2" ALL CASES				

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)

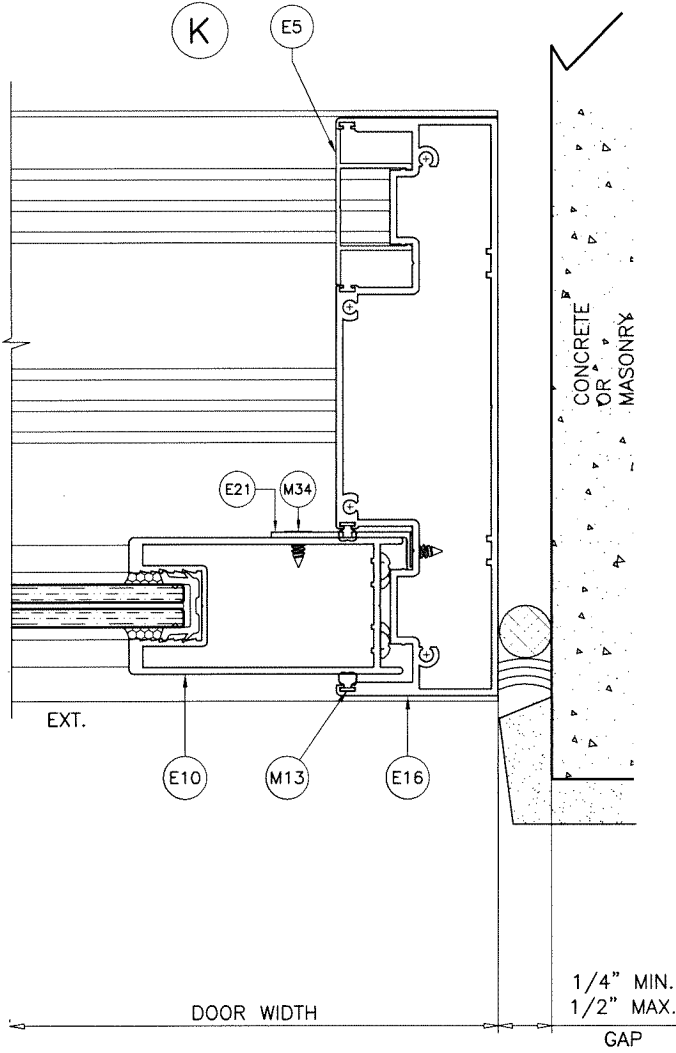
CONDITIONS OR OTHER SEALANTS NOT COVERED IN THIS
SHEET TO BE ENGINEERED SEPARATELY AND TO BE
REVIEWED BY AHJ.

SEE SHEET 6 FOR APPROVED CONFIGURATIONS OF UN-REINFORCED SGD,
AND SHEET 6.1 FOR APPROVED CONFIGURATIONS OF REINFORCED SGD.



FREE STANDING JAMB
OPERABLE SIDE

Ix IN^4	Sx IN^3
11.784	4.716



FREE STANDING JAMB
FIXED SIDE

Ix IN^4	Sx IN^3
11.784	4.716

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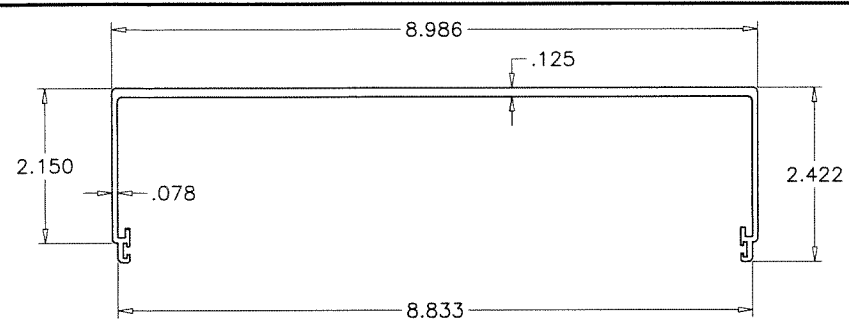


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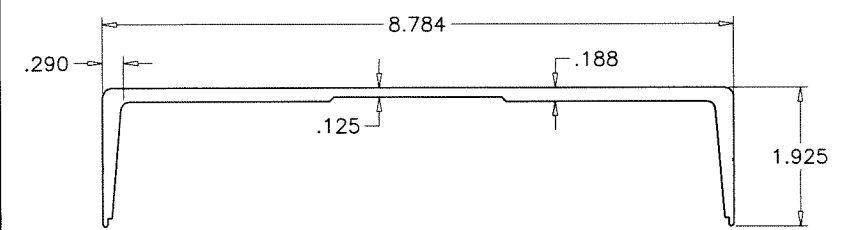
af c
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COMP-ANL W17-69ESW

SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

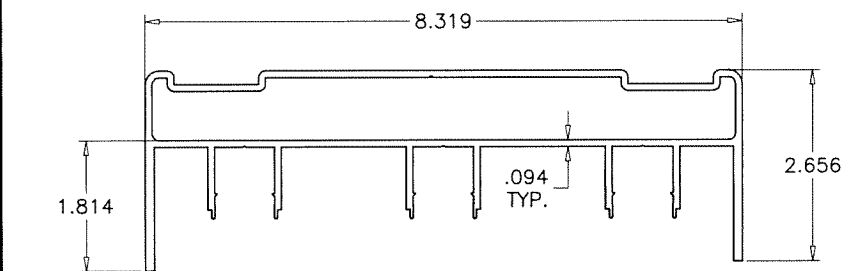
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dr. by:	TARIQ	chk. by:	
drawing no.	W17-69	sheet	12 of 16



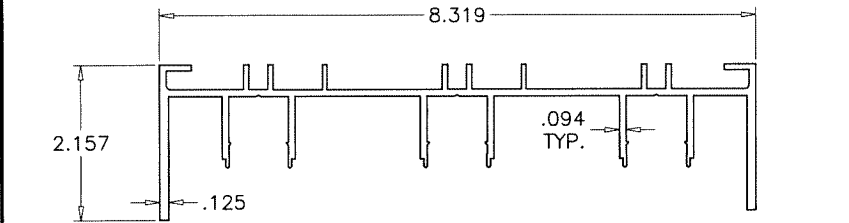
E17 HEAD RECEPTOR



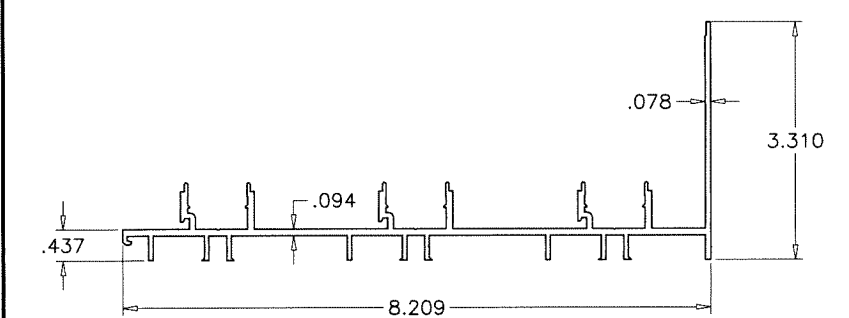
E18 RECEPTOR STIFFENER



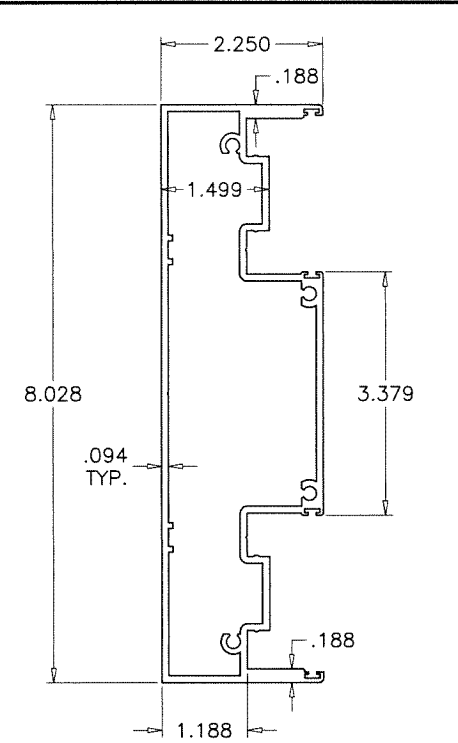
E14 FRAME HEAD AT RECEPTOR



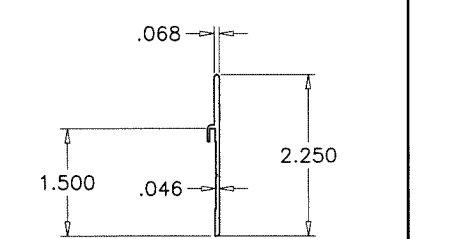
E19 FRAME HEAD
(WITHOUT HEAD RECEPTOR)



E15 FRAME SILL



E16 STD. FRAME JAMB



E20 SILL RISER

Sealed: 9/15/2023

FL #22973



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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af c

COMP-ANL W17-69ESW

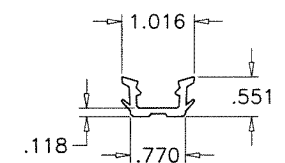
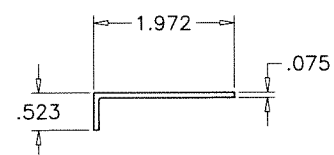
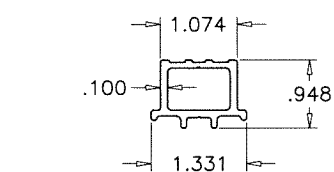
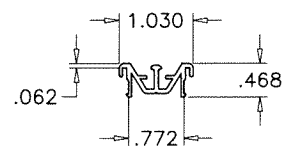
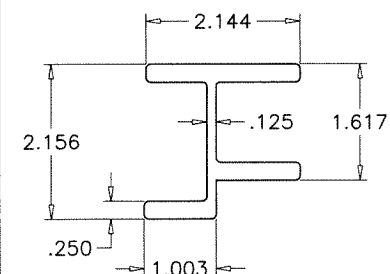
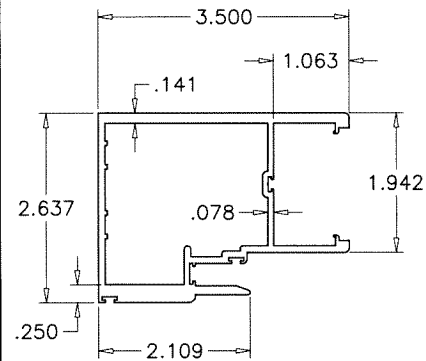
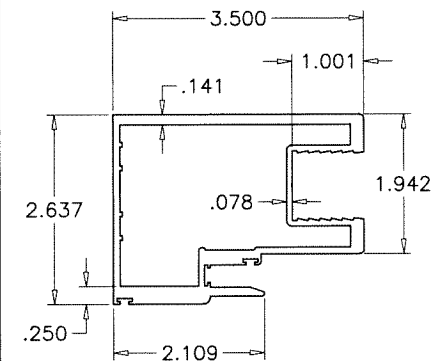
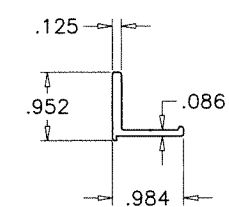
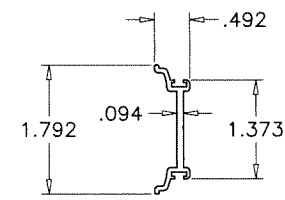
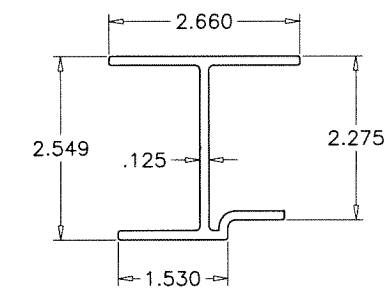
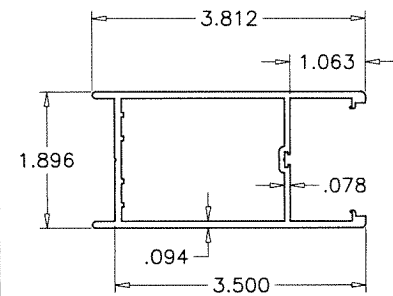
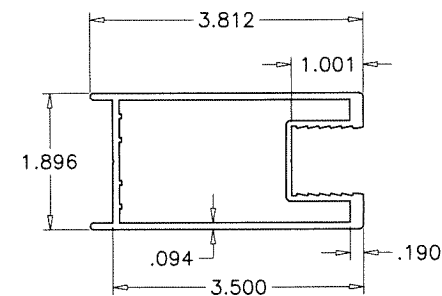
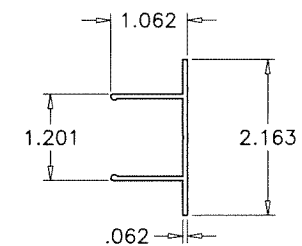
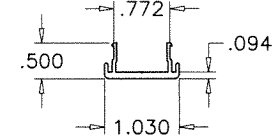
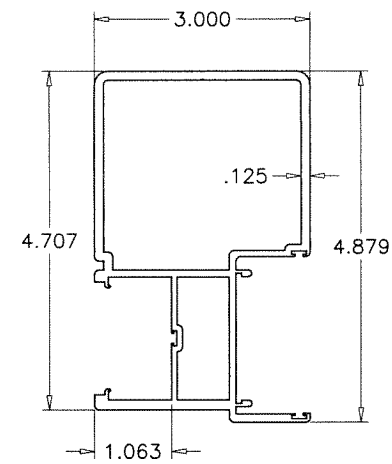
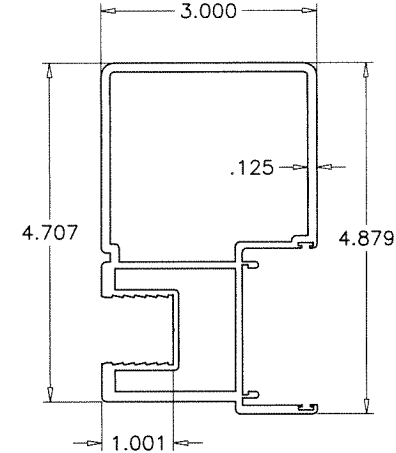
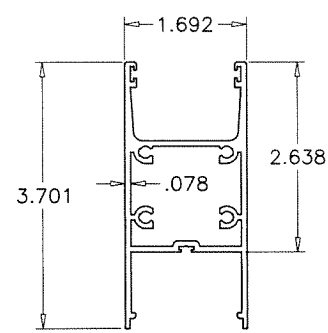
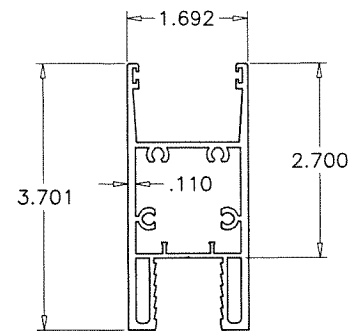
SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

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revisions:		date		by description	
no	date	no	date	no	description

date: 07-24-17
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W17-69
sheet 14 of 16



MATERIAL = SILICONE
HARDNESS = 70±3
TENSILE STRENGTH = 1139 PSI
ELONGATION AT BREAK = 235%
TEAR STRENGTH = 107 Lb/IN
BRITTLINESS TEMPERATURE = -40° F
COMPRESSION SET = 12.5% (22h@212°F)

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(C.A.N. 3538)

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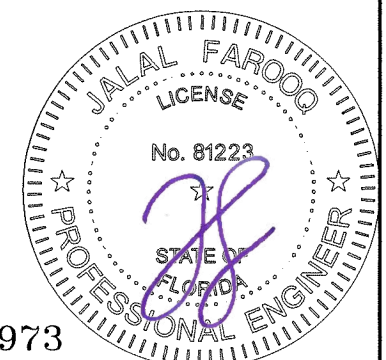
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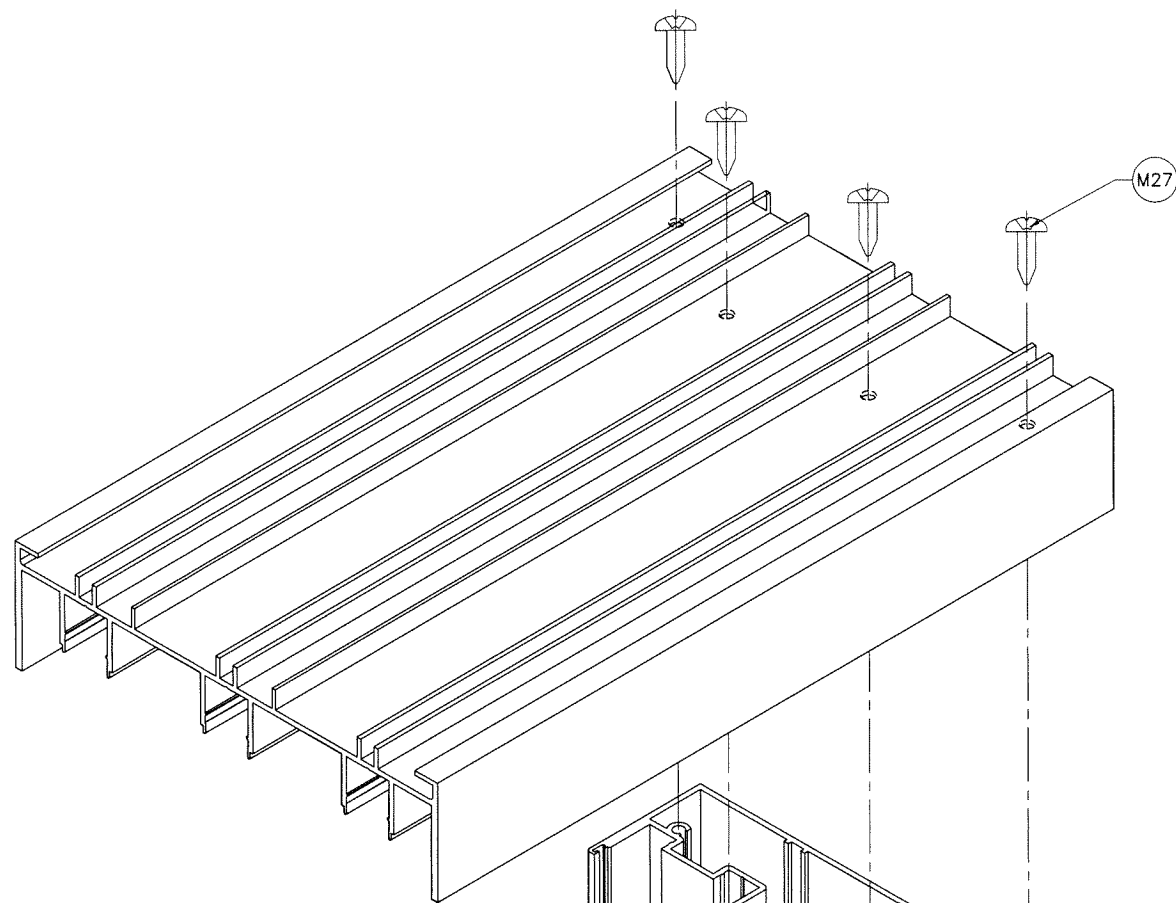
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W17-69

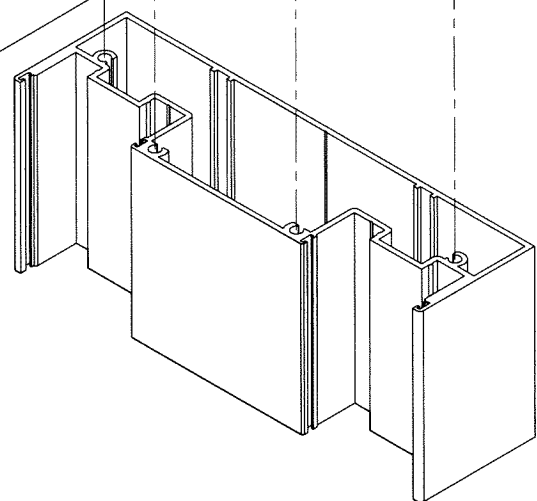
sheet 15 of 16

Sealed: 9/15/2023

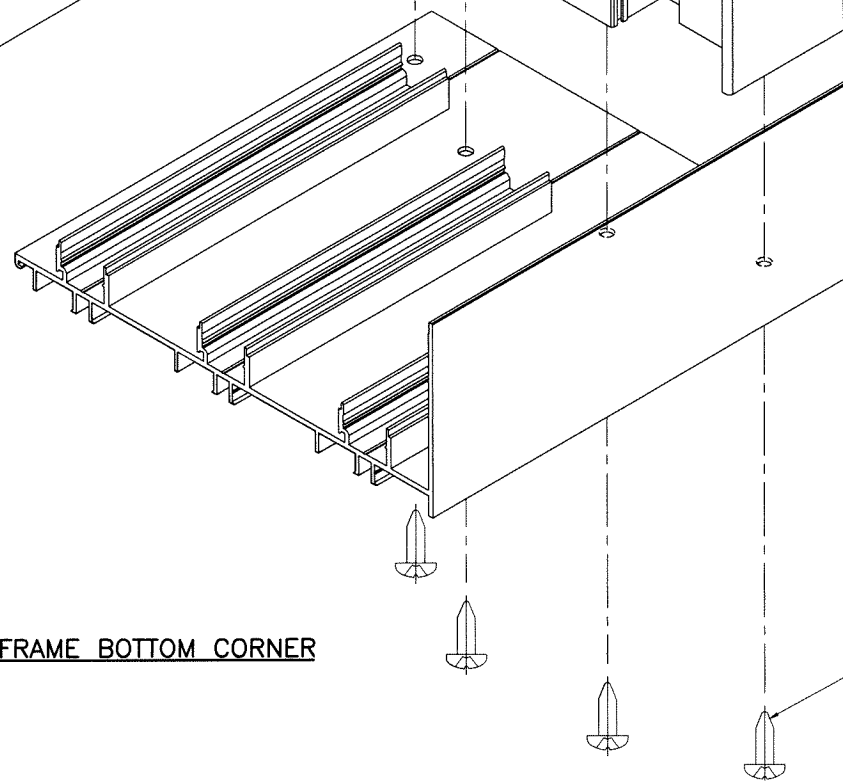




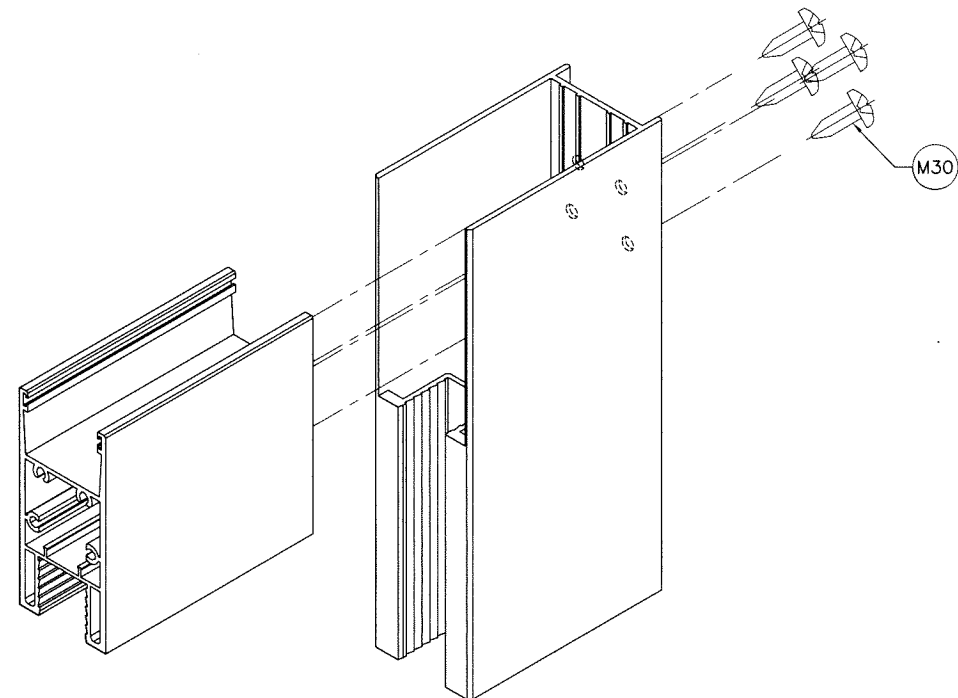
FRAME TOP CORNER



FRAME BOTTOM CORNER



PANEL TOP/BOTTOM CORNER
LAM. GLASS RAIL & STILE (SHOWN)
INSUL. LAM. GLASS RAIL & STILE (SIMILAR)



Sealed: 9/15/2023

FL #22973

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