

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

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 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

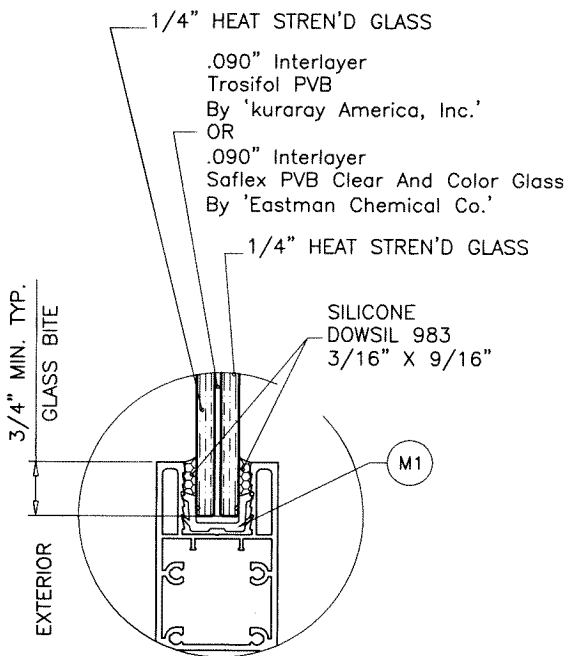
ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

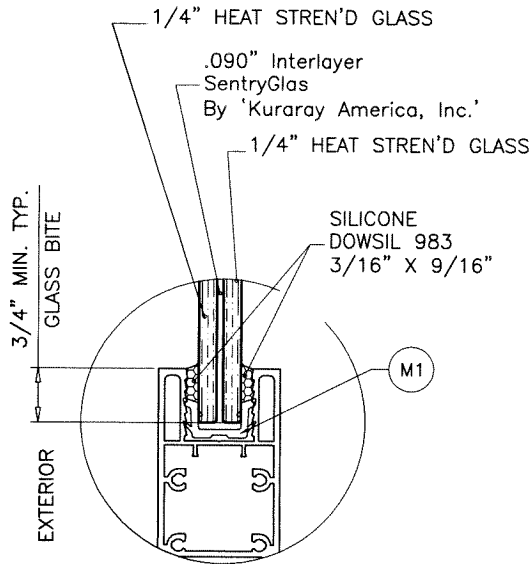
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,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

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

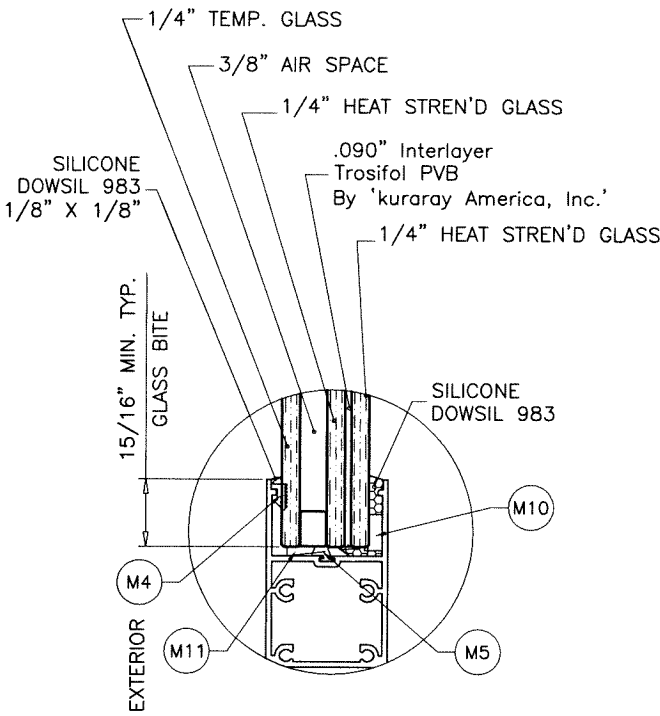
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.



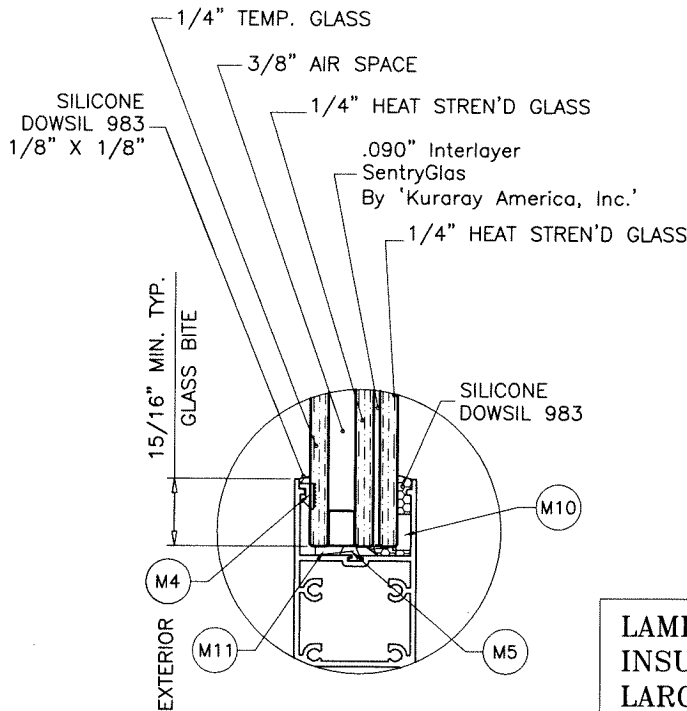
GLASS TYPE 'A'
9/16" OVERALL LAMINATED GLASS



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



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



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

GLAZING OPTIONS

Sealed: 9/22/2026

FL #22973

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

3/8" AIR SPACE CONSISTING OF:

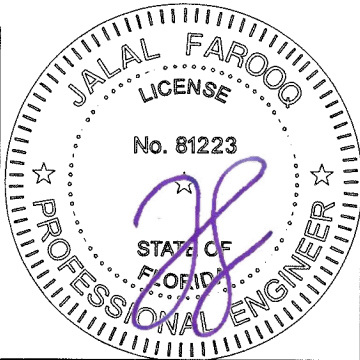
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

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.

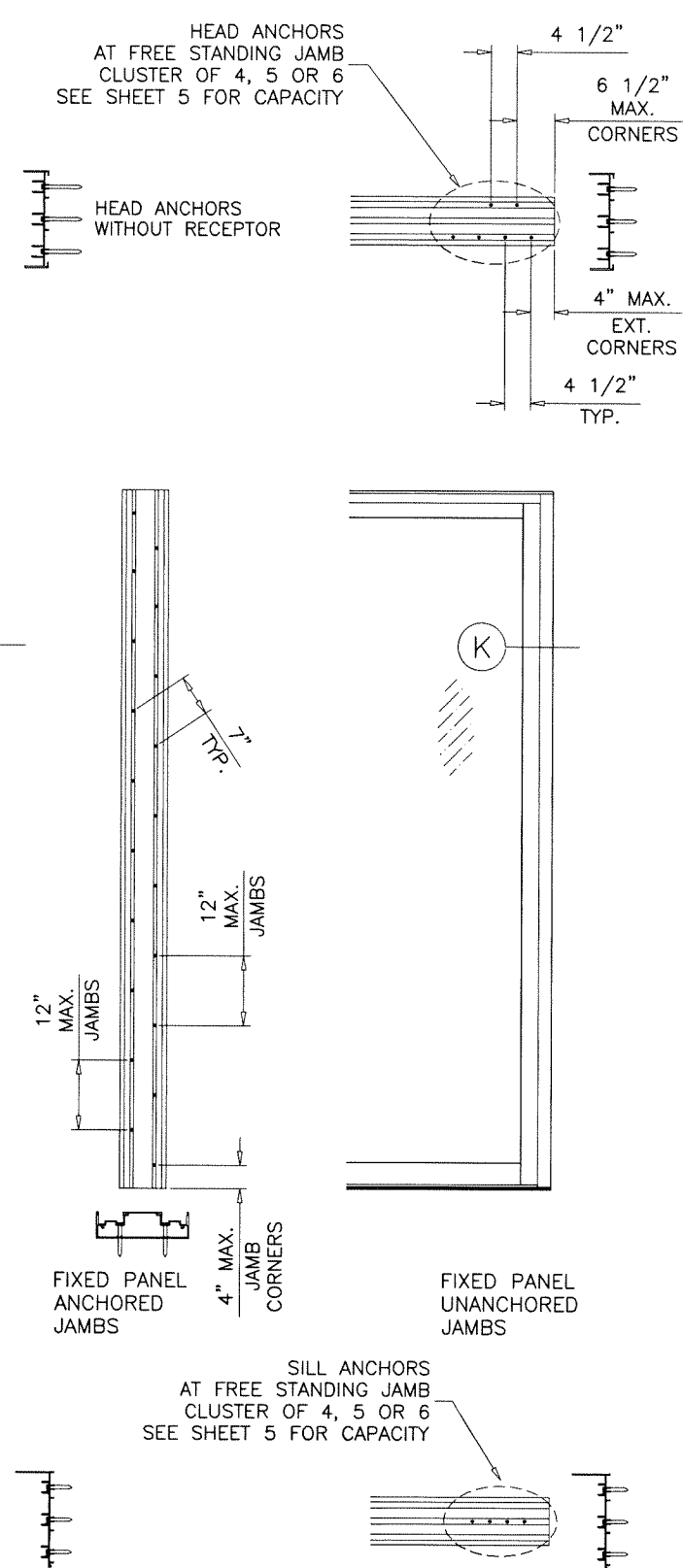
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W17-69ESW

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

revisions:		date		by		description	
no	date	no	date	no	date	no	date
A	11.06.20	A	11.06.20	A	11.06.20	A	11.06.20
B	09.12.23	B	09.12.23	B	09.12.23	B	09.12.23
C	09.18.26	C	09.18.26	C	09.18.26	C	09.18.26
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drawing no.		W17-69		sheet 1 of 16			



FL #22973

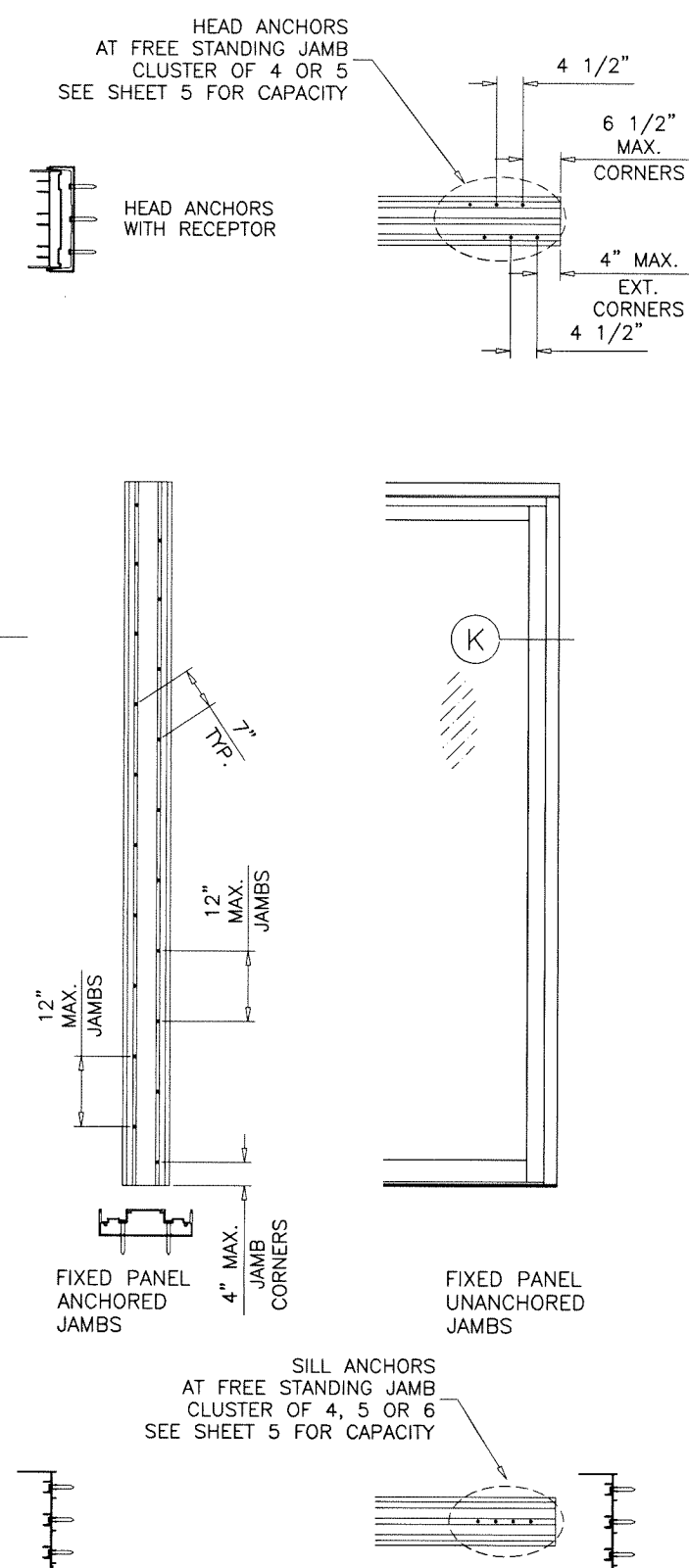


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FL #22973



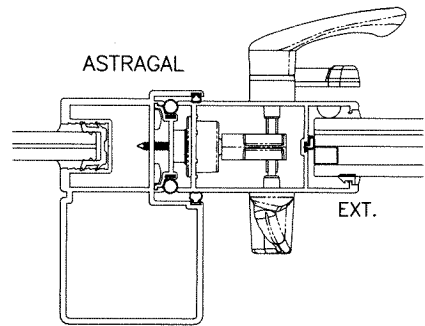
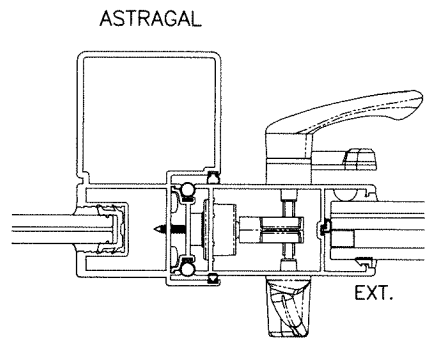
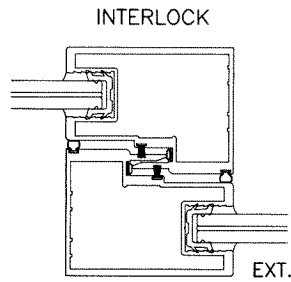
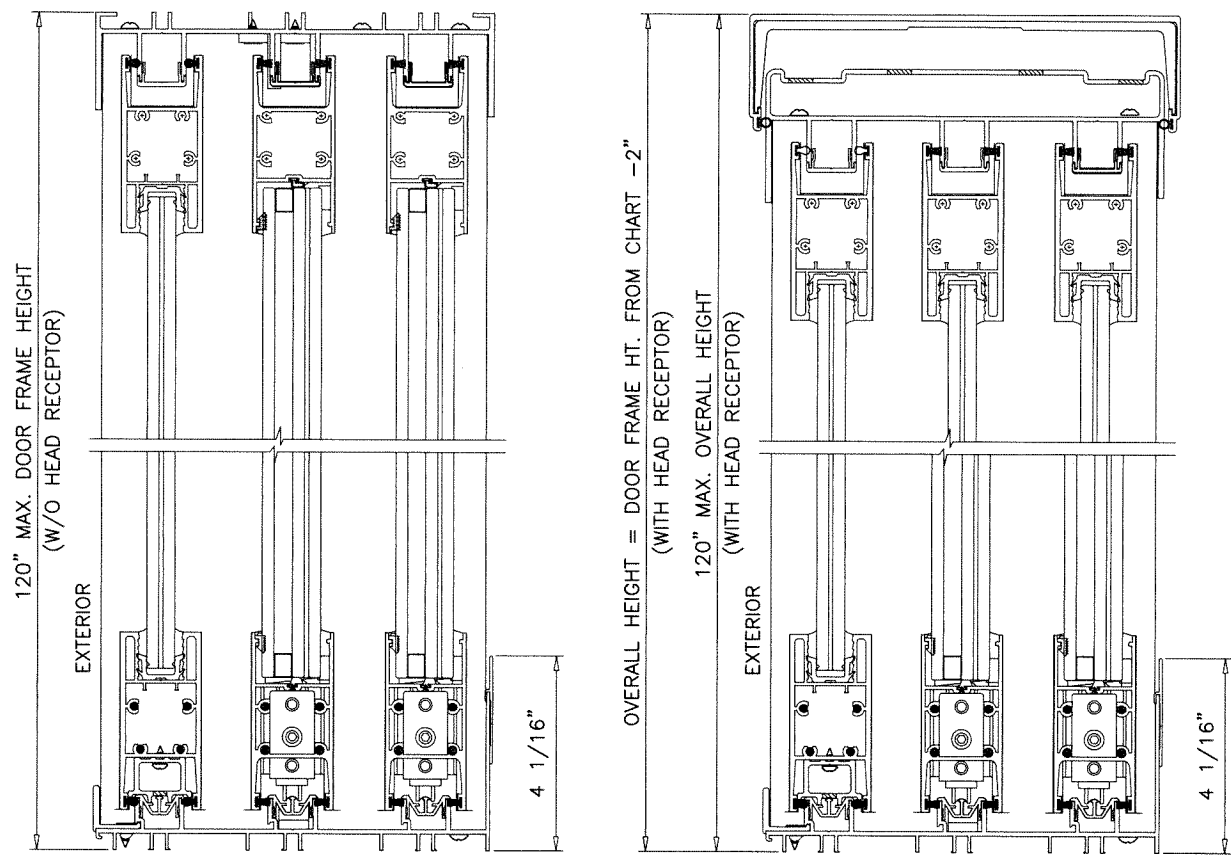
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drawing no.		no date	by description
W17-69			
scale: 3/8" = 1' - 0"			
dr. by: TARIQ			
chk. by:			
sheet 3 of 16			

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
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

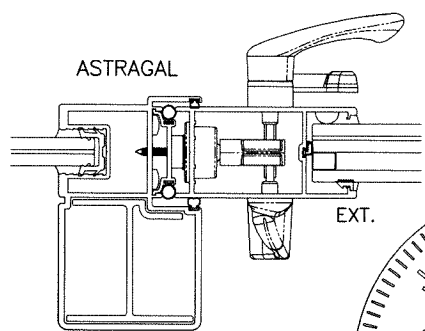
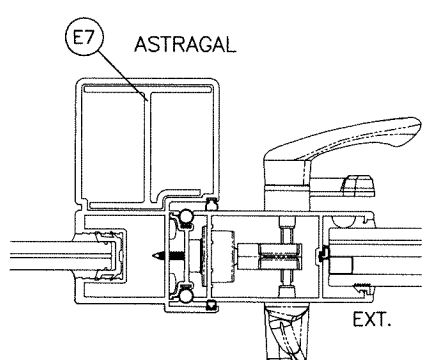
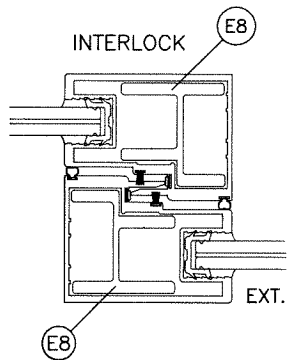
CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.
FOR DOORS WITH HEAD RECEPTORS OVERALL HEIGHT = DOOR FRAME HT. FROM CHART - 2".

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

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



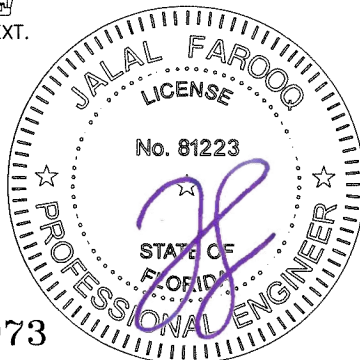
WITHOUT REINFORCING



WITH REINFORCING

Sealed: 9/22/2026

FL #22973



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COMP-ANL W17-69ESW

revisions:		date		by description	
no	date	no	date	no	date

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

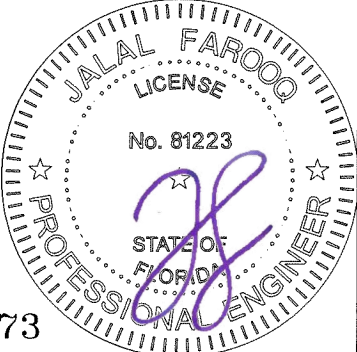
SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

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



Sealed: 9/22/2026

FL #22973

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

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

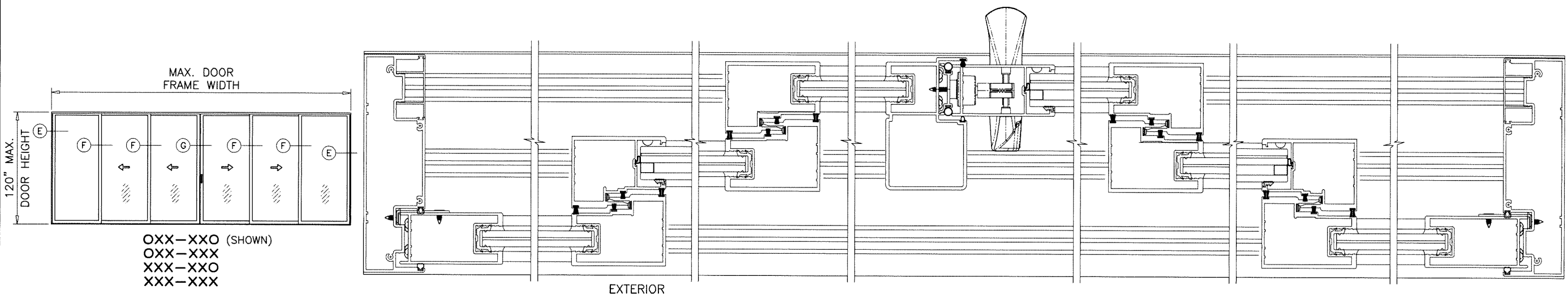
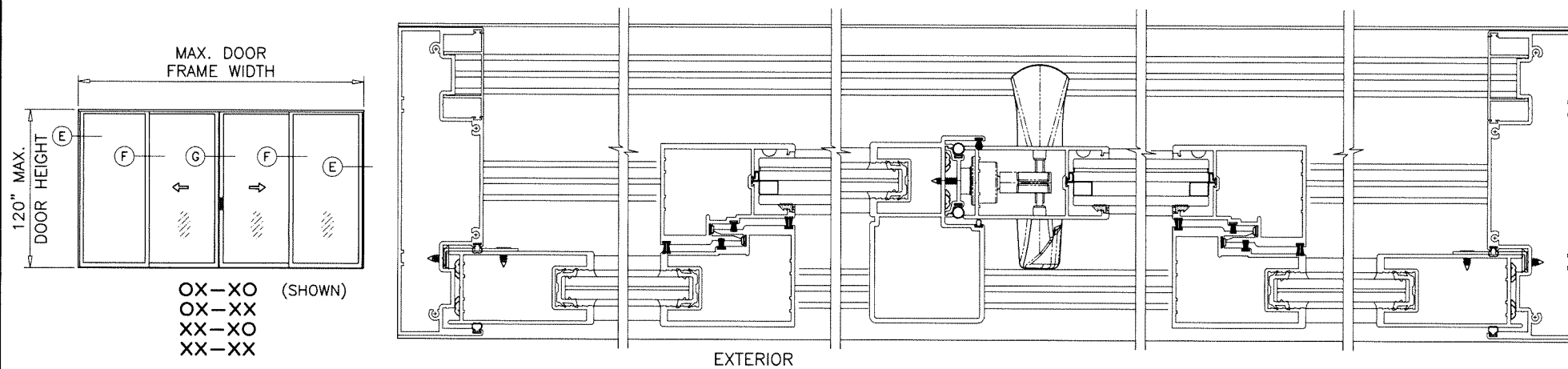
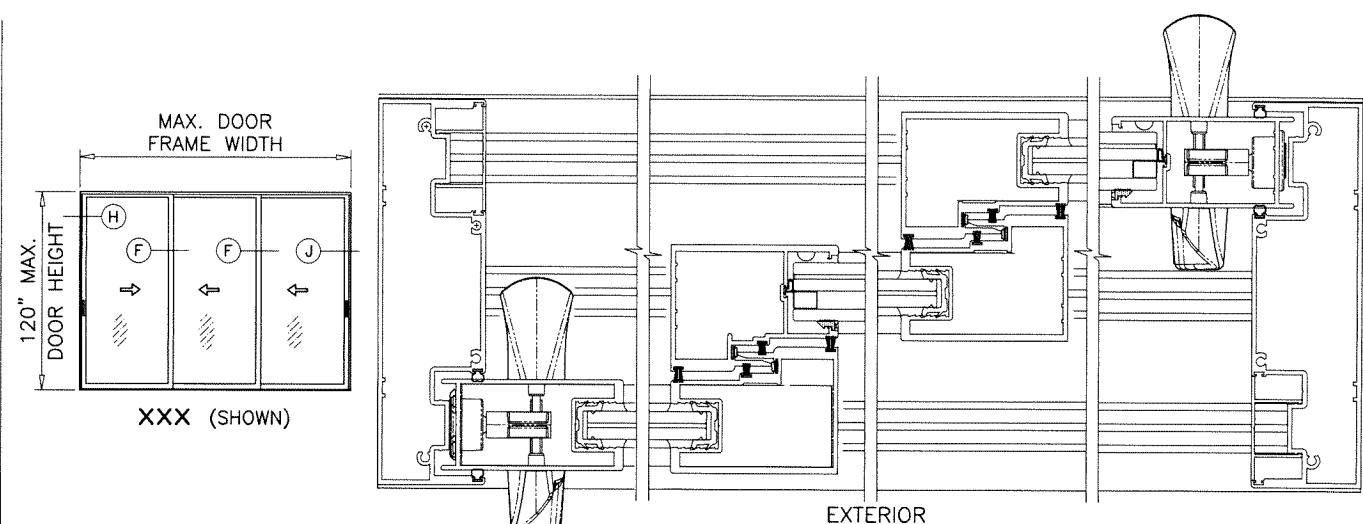
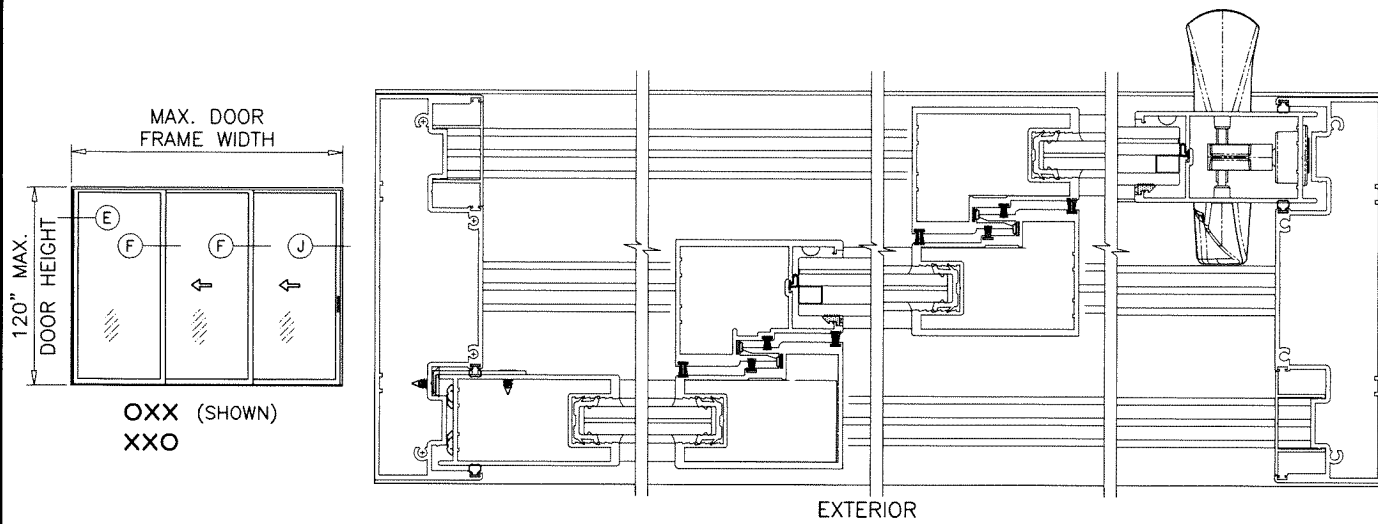
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:
no date by description

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

drawing no.
W17-69
sheet 5 of 16

COMP-ANL W17-69ESW



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)

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.

Sealed: 9/22/2026

FL #22973



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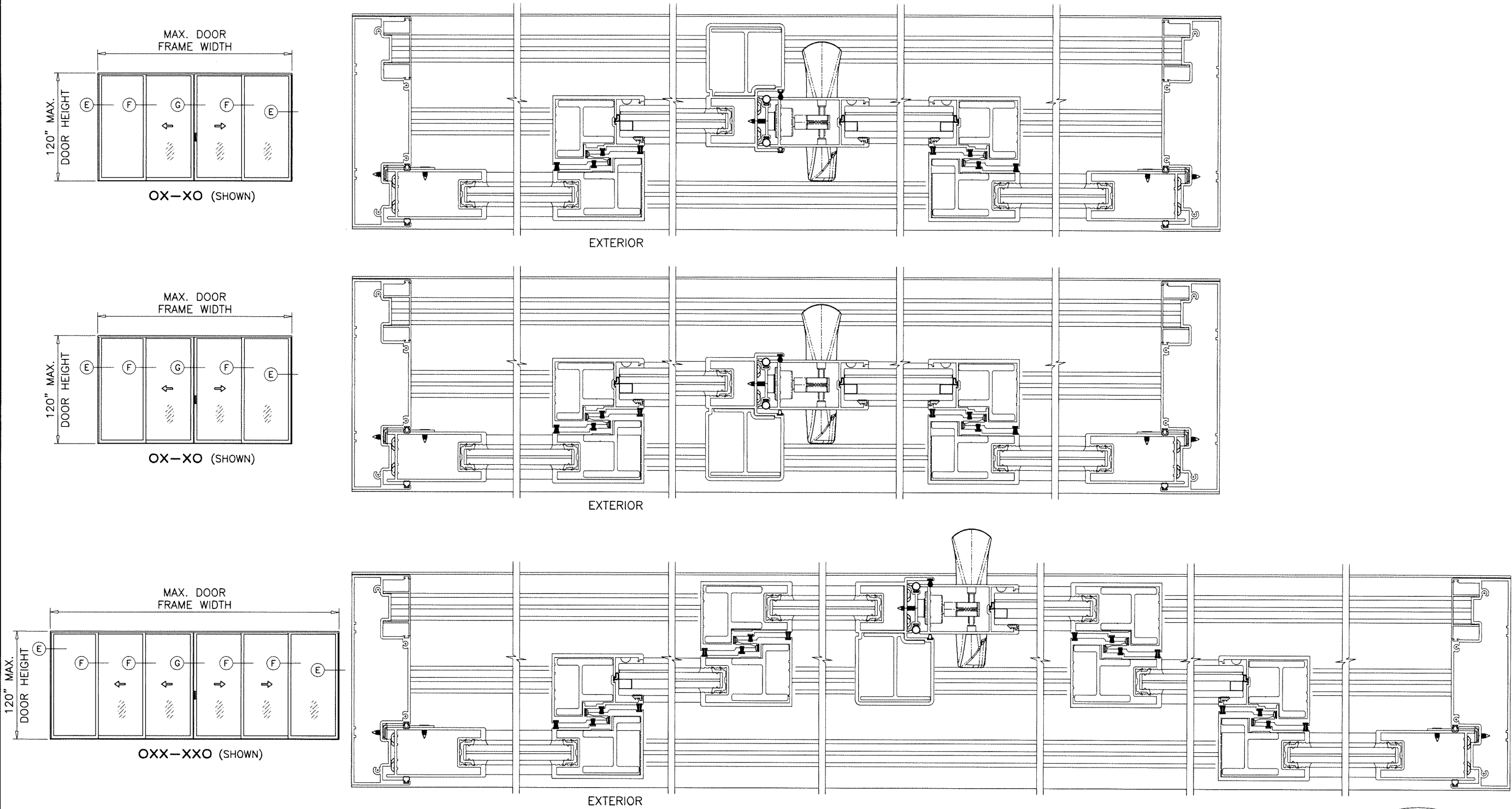
SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

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

revisions:	no	date	by	description
date:	07-24-17			
scale:	-			
dr. by:	TARIQ			
chk. by:				
drawing no.	W17-69			
sheet	6 of 16			

COMP-ANL W17-69ESW

- NOTE:
- 1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 - 2. FOR APPLICABLE DESIGN PRESSURES AND REINFORCEMENTS REQUIREMENTS SEE SHEET 4.
 - 3. FOR ANCHOR DETAILS SEE SHEETS 7 THRU 11.



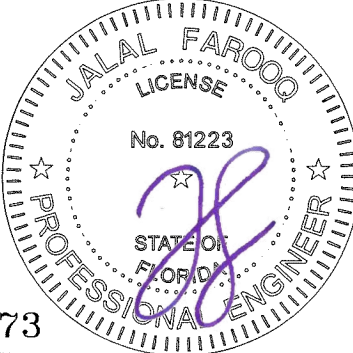
APPROVED CONFIGURATIONS

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)

3-TRACKS REINFORCED S.G.D.

Sealed: 9/22/2026

FL #22973



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

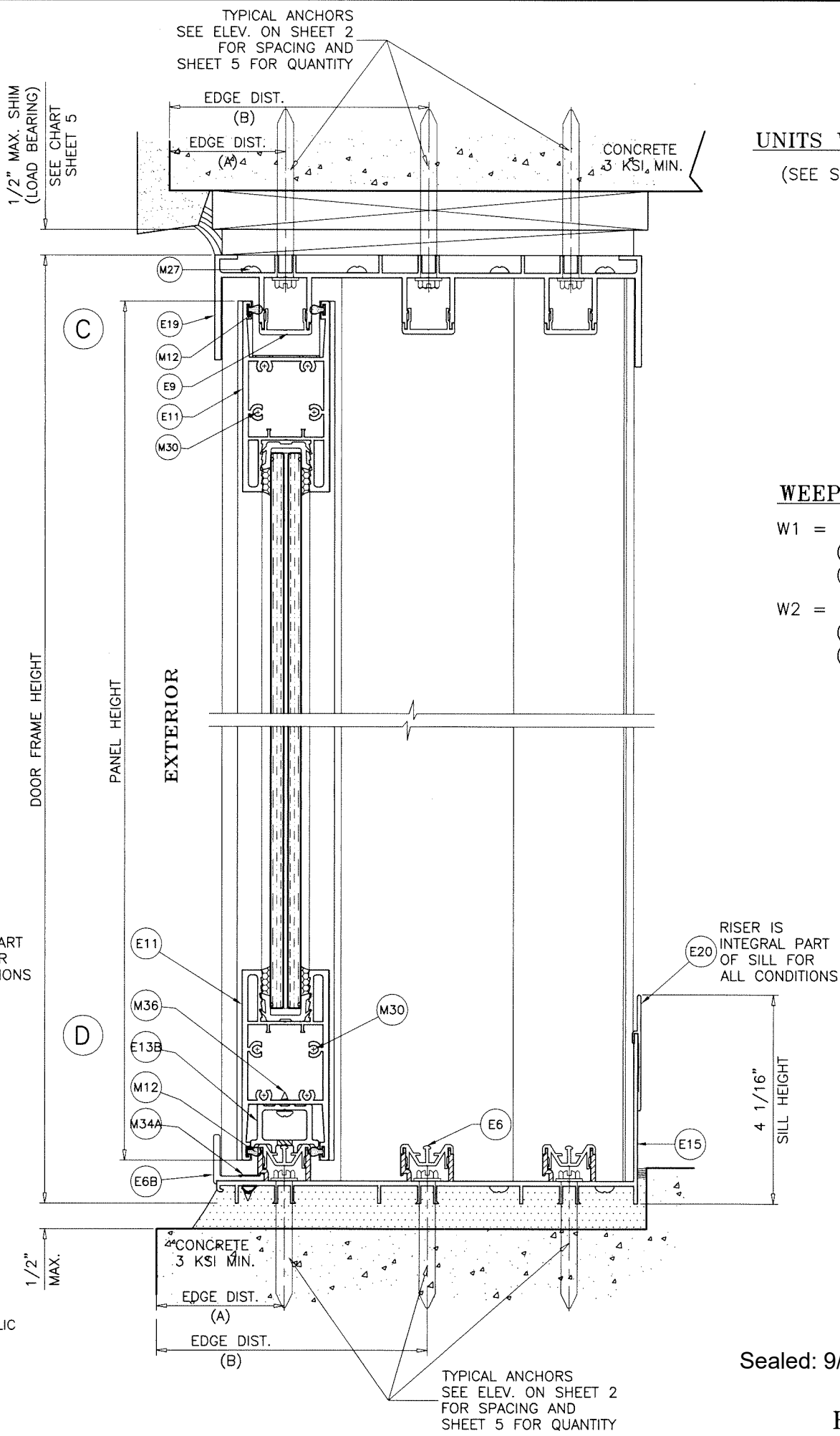
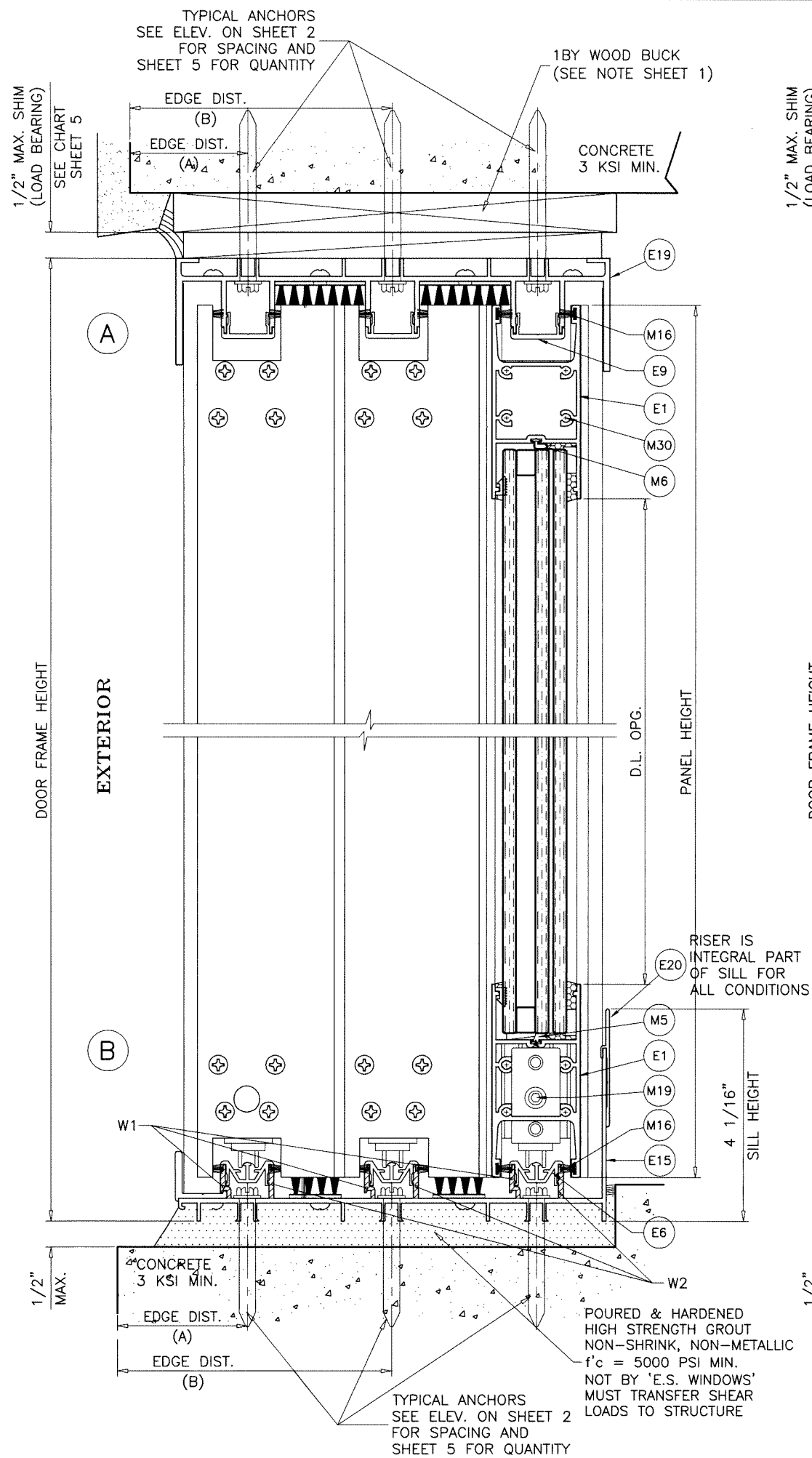
revisions:	no	date	by	description

date: 07-24-17	scale: -	dr. by: TARIQ	chk. by:
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drawing no.	W17-69
sheet	6.1 of 16

af c

COMP-ANL\W17-69ESW



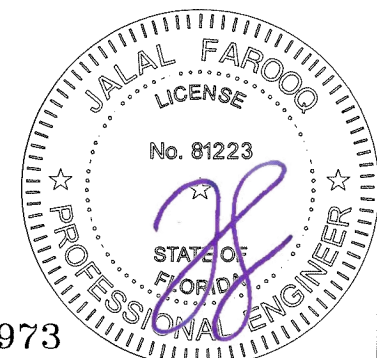
UNITS WITHOUT HEAD RECEPTORS (SEE SHEET 9 WITH HEAD RECEPTOR)

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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FL #22973



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revisions:		date: 07-24-17		scale: 3/8" = 1"		dr. by: TARIQ		chk. by:	
no	date	no	date	no	date	no	date	no	date

drawing no.
W17-69
sheet 7 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 'A'—** 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 WOOD BUCKS INTO CONCRETE
1-3/8" MIN. EMBED INTO CONCRETE
- TYPE 'B'—** 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=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. (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

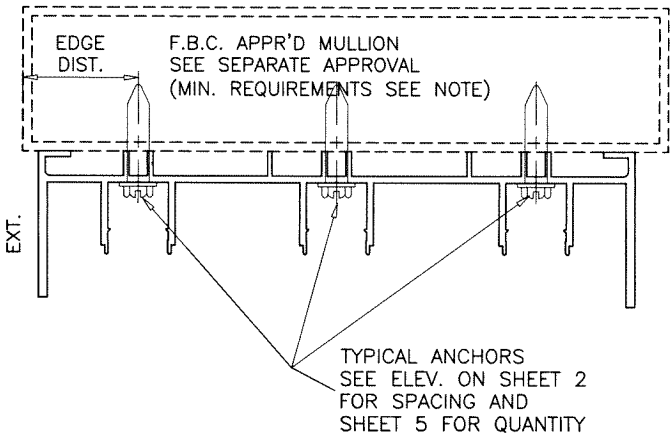
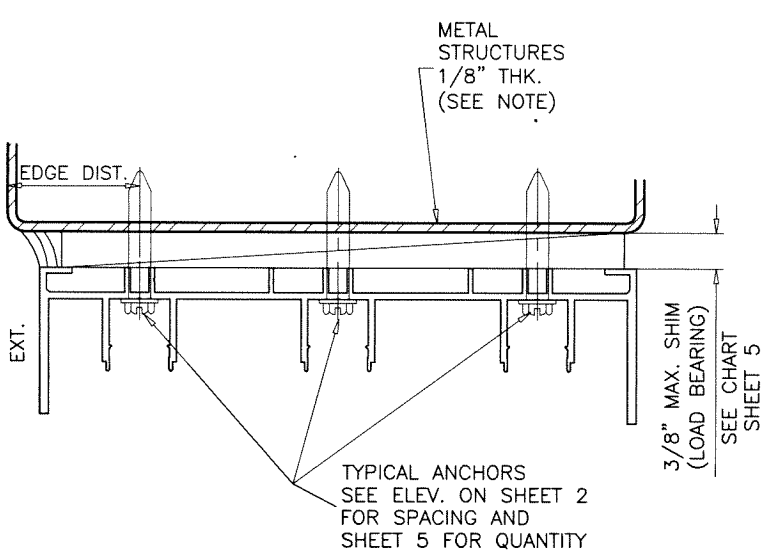
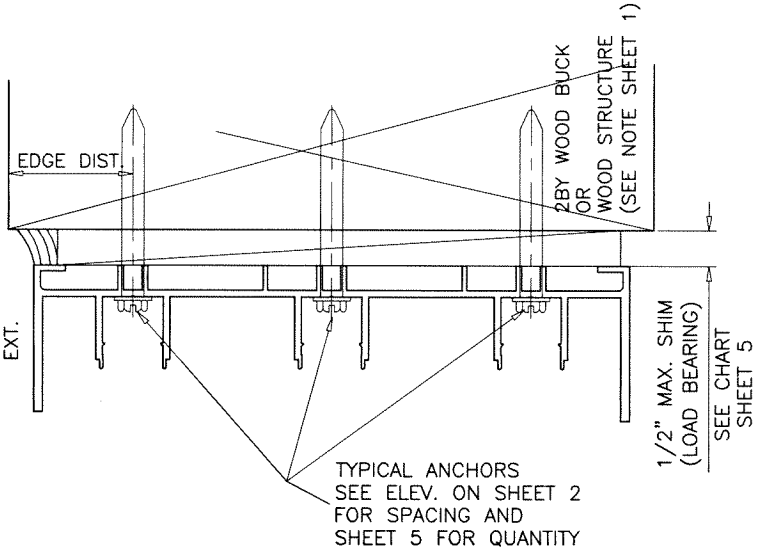
AT JAMBS (FOR DOORS WITH OR WITHOUT HEAD RECEPTOR)

- 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 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. (Fy = 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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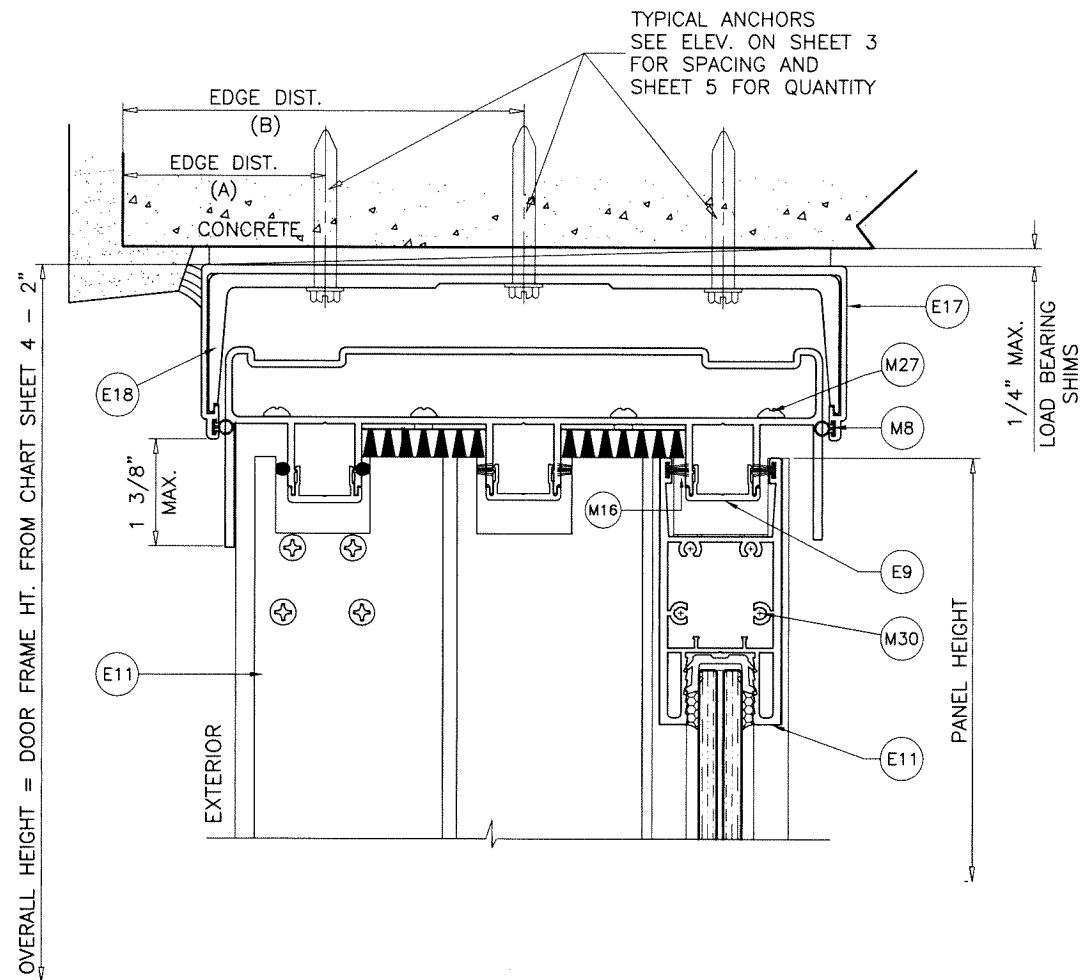
FL #22973

af c
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\W17-69ESW

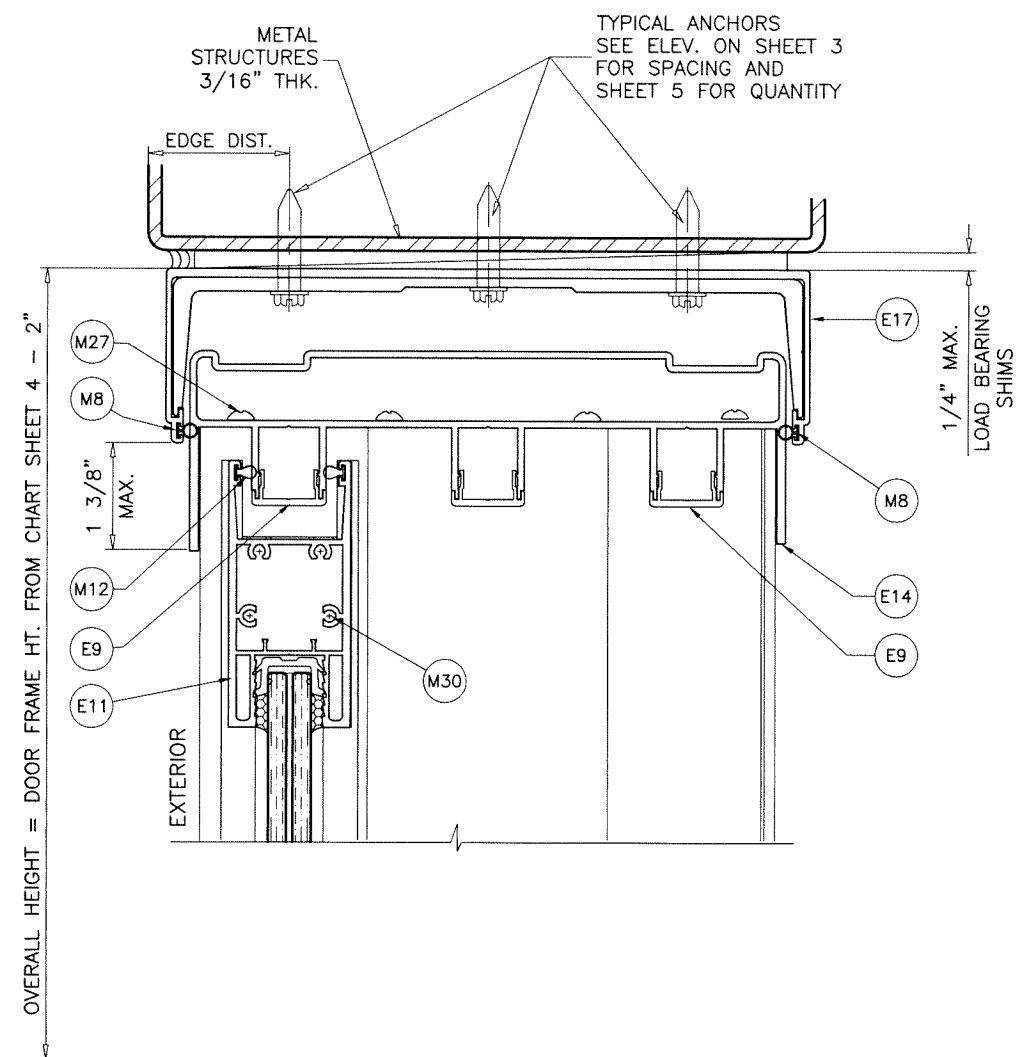
SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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revisions:		no		date		by		description	
07-24-17									
date:		scale:		dr. by:		chk. by:			
07-24-17		3/8" = 1"		TARIQ					
drawing no.		W17-69							
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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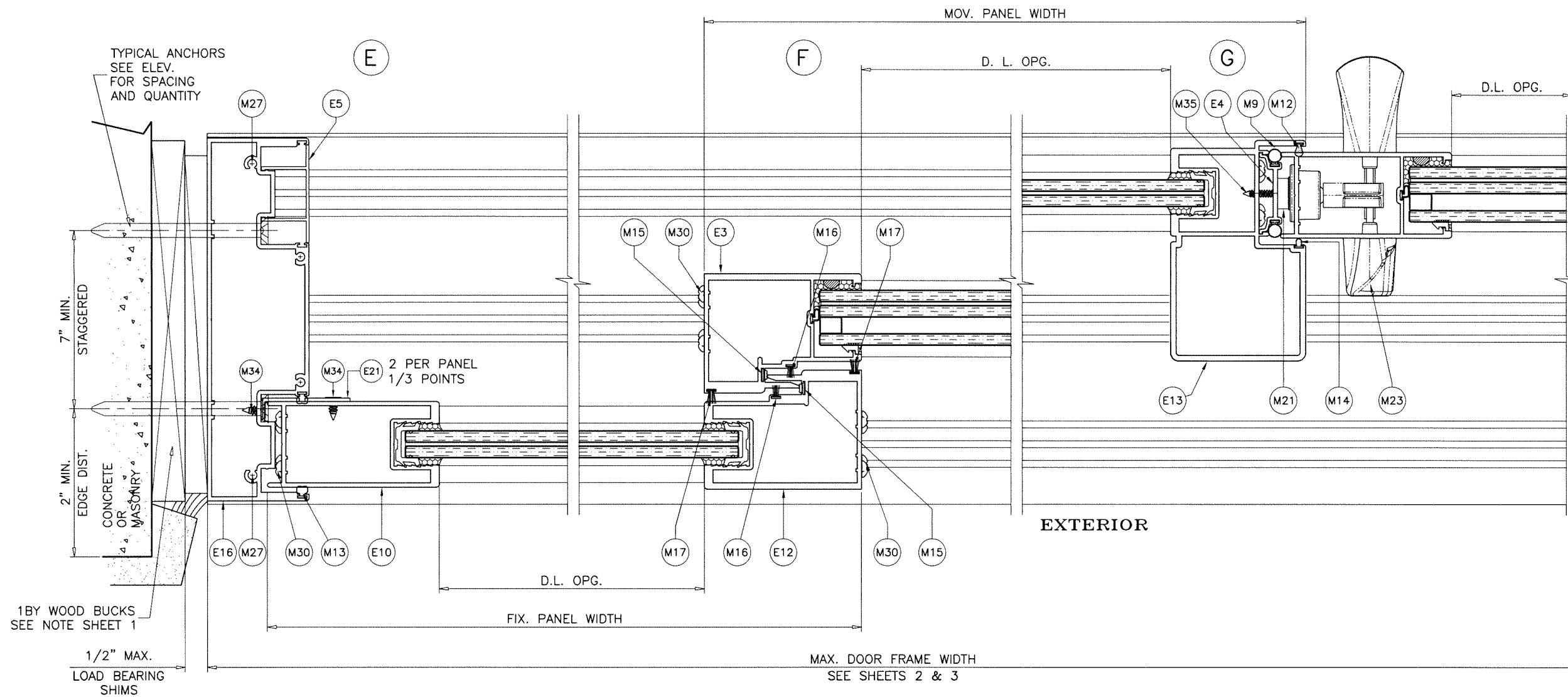
FL #22973

af c
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9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
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COMP-ANL \ W17-69ESW

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

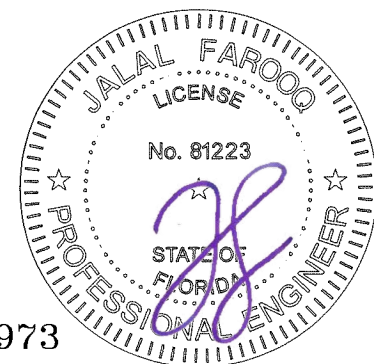
E.S. WINDOWS, LLC
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dr. by:	TARIQ			
chk. by:				
drawing no.	W17-69			
sheet	9 of 16			



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

Sealed: 9/22/2026



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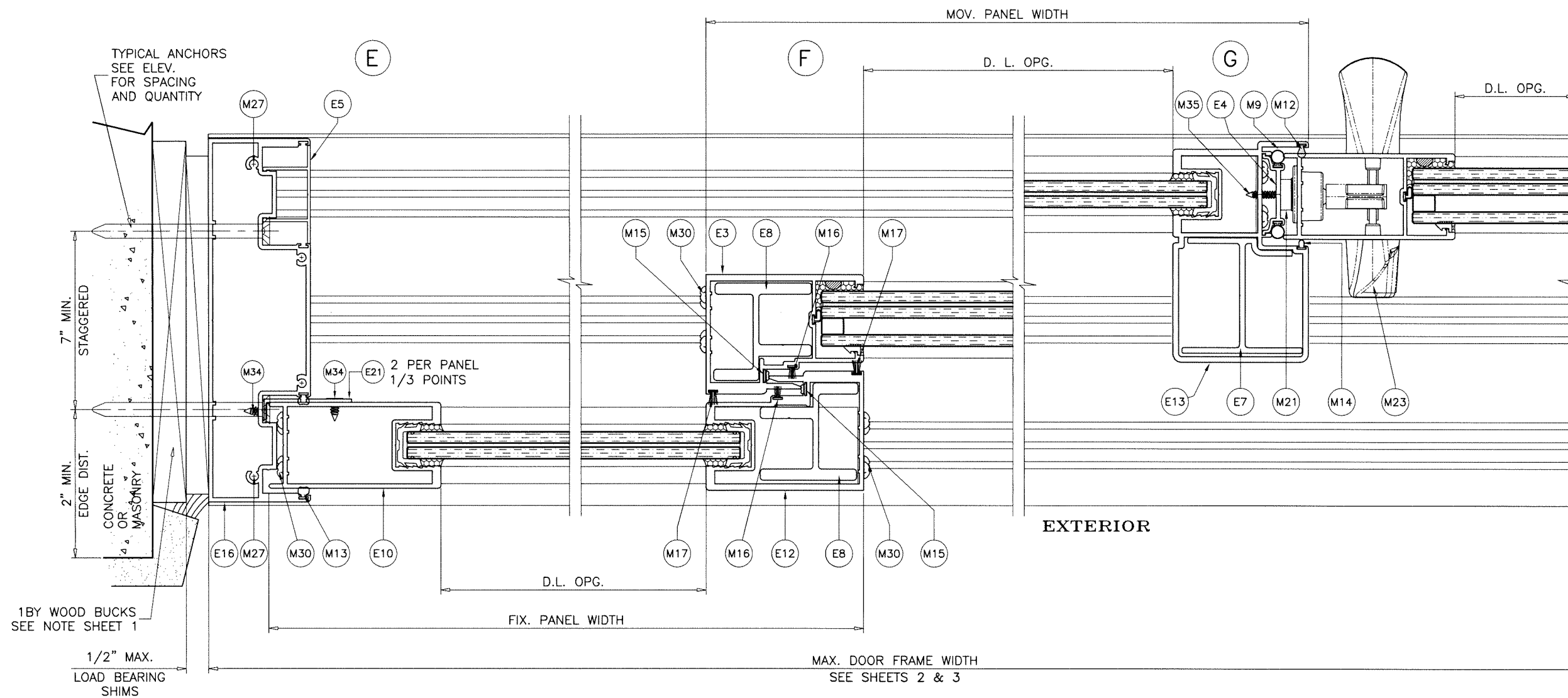
af c
(C.A.N. 3538)
COMP-ANL\W17-69ESW

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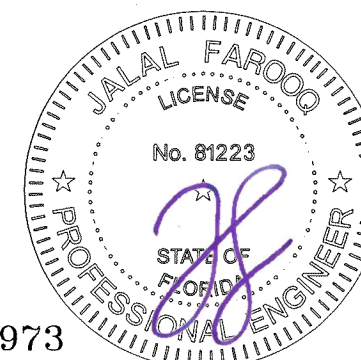
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drawing no.		W17-69		
sheet 10 of 16				



3-TRACKS REINFORCED S.G.D.

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a f c
COMP-ANL W17-69ESW

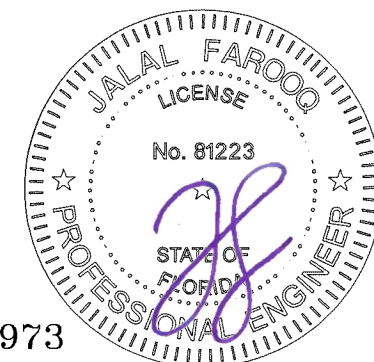
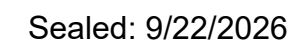
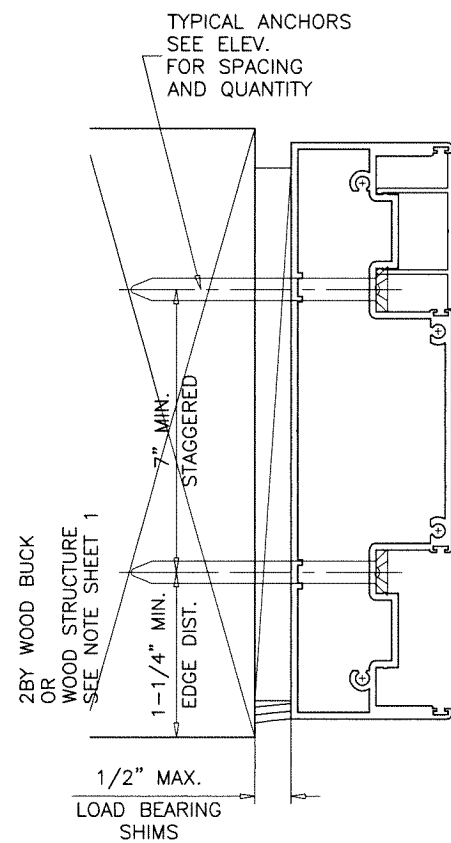
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drawing no.	no.
W17-69	
sheet 10.1 of 16	



FL #22973

date: 07-24-17		revisions:	
scale: 3/8" = 1"	no	date	by description
dr. by: TARIQ			
chk. by:			

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

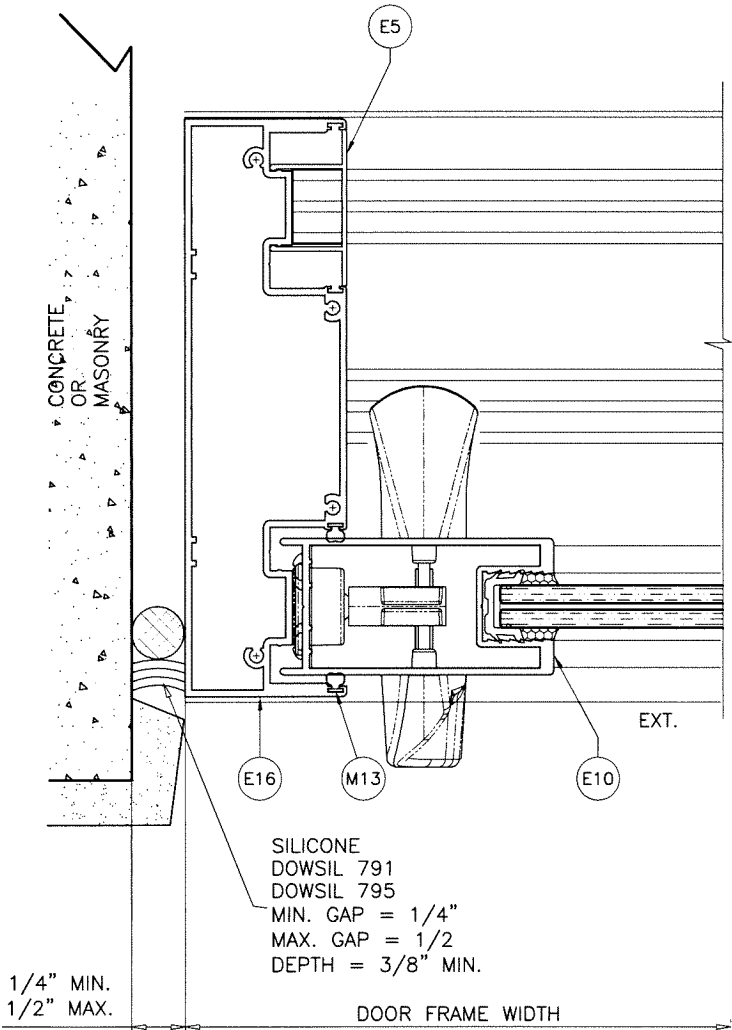
DOWSIL 791 = 50% STRETCH
DOWSIL 795 = 100% STRETCH

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)

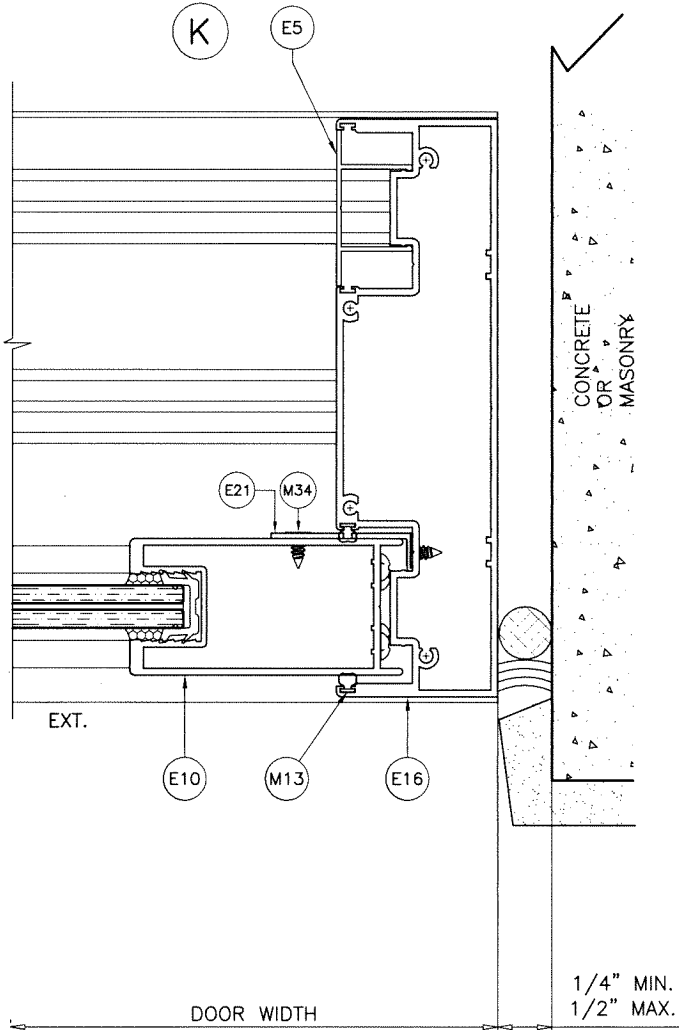
CONDITIONS OR OTHER SEALANTS NOT COVERED IN THIS
SHEET TO BE ENGINEERED SEPARATELY AND TO BE
REVIEWED BY AHJ.

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

Sealed: 9/22/2026

FL #22973



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

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-6500-005	2/ PANEL	TOP AND BOTTOM RAIL (INSUL. LAM. GLASS)	6063-T6	-
E2	ES-6500-006	1/ PANEL	LOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E3	ES-6500-007	1/ PANEL	INTERLOCK STILE (INSUL. LAM. GLASS)	6005-T6	-
E4	ES-6500-009	1	ASTRAGAL ADAPTER	6063-T6	-
E5	ES-6500-012	2	SNAP-IN JAMB COVER (OPTIONAL)	6063-T5	-
E6	ES-6500-013	1	TRACK INSERT	6063-T6	-
E6B	ES-6500-014A	AS REQD.	RETAINER ANGLE, 7" LONG	6063-T6	AT INTERLOCK LOCATIONS
E7	ES-6500-016	AS REQD.	ASTRAGAL REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E8	ES-6500-017	AS REQD.	INTERLOCK REINFORCEMENT, FULL PANEL LENGTH	6005-T5	-
E9	ES-6500-018	AS REQD.	HEAD COVER (OPTIONAL)	6063-T5	-
E10	ES-6500-023	1/ PANEL	LOCK STILE (LAM. GLASS)	6063-T6	-
E11	ES-6500-024A	2/ PANEL	TOP AND BOTTOM RAIL (LAM. GLASS)	6063-T6	-
E12	ES-6500-025	1/ PANEL	INTERLOCK STILE (LAM. GLASS)	6063-T6	-
E13	ES-6500-026	1	ASTRAGAL STILE (LAM. GLASS)	6063-T6	-
E13A	ES-6500-008	1	ASTRAGAL STILE (INSUL. LAM. GLASS)	6063-T6	-
E13B	ES-6500-033	2/ FIX. PANEL	FIXED PANEL BOTTOM GUIDE, 7" LONG	6063-T5	-
E14	ES-6500-050	1	FRAME HEAD AT RECEPTOR	6063-T6	-
E15	ES-6500-051	1	FRAME SILL	6063-T6	-
E16	ES-6500-052	2	FRAME JAMB	6063-T6	-
E17	ES-6500-053	1	HEAD RECEPTOR	6063-T6	-
E18	ES-6500-054	1	RECEPTOR REINFORCEMENT, FULL LENGTH	6063-T6	-
E19	ES-6500-055	1	FRAME HEAD	6063-T6	-
E20	ES-6500-028	1	SILL RISER	6063-T5	-
E21	ES-CF-001A	AS REQD.	FIX. PANEL CLIP, 4" LONG, AT 1/3 POINTS	6063-T5	-
M1	ES-6500-G01A	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONES S.A.
M4	4013A	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	SILICONE	DUROMETER 65±5 SHORE A, EXTRUSIONES S.A.
M5	4014A	AS REQD.	BOTTOM RAIL GLAZING GASKET	EPDM	DUROMETER 68±5 SHORE A
M6	ES-4018A	AS REQD.	GLAZING GASKET	EPDM	DUROMETER 75±5 SHORE A
M7	ES-8011A	AS REQD.	SPACER GASKET	EPDM	DUROMETER 85±5 SHORE A
M8	ES-5008A	AS REQD.	BULB W'STRIPPING	SILICONE	DUROMETER 65±5 SHORE A
M9	E-214	AS REQD.	ASTRAGAL ADAPTER W'STRIPPING	VINYL	THERMOPLASTIC ELASTOMER, DUROMETER 65±5 SHORE A
M10	1/4" X 1/2"	AS REQD.	GLAZING TAPE (INSUL. LAM. GLASS)	FOAM	-
M11	ES-7530-B01A	2/ LITE	SETTING BLOCK	SILICONE	DUROMETER 80±5 SHORE A
M12	Q300T190	AS REQD.	FABRIC COATED FOAM WEATHERSEAL	POLYETHYLENE	Q-LONG
M13	Q250T190	AS REQD.	JAMB W'STRIPPING	POLYETHYLENE	Q-LONG
M14	Q200T190	AS REQD.	ASTRAGAL W'STRIPPING	POLYETHYLENE	Q-LONG
M15	Q150T270	AS REQD.	INTERLOCK W'STRIPPING	POLYETHYLENE	Q-LONG
M16	W223012K	AS REQD.	PILE W'STRIPPING	POLYPROPYLENE	-
M17	W22322NK	AS REQD.	PILE W'STRIPPING AT INTERLOCK	POLYPROPYLENE	-
M18	P6304 AFK	-	ADHESIVE PILE PAD (4" X 1" X 1/2")	-	ULTRAFAB
M19	GTT-234/460-02-A	2/ PANEL	ROLLER	-	PABOSE
M20	66900-001	-	ROLLER SCREW CAP	PVC	-
M21	PS01-1005-00B	1	MORTISE LOCK KEEPER	-	INTERLOCK
M22	PS01-0035-00B	1	TWO POINT 3-PLY HOOK LOCK	-	INTERLOCK
M23	PS01-0100-117	1/ MOV. PANEL	HANDLE SET	-	INTERLOCK
M27	#12 X 1 1/2"	4/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M28	#12 X 1 3/4"	AS REQD.	RECEPTOR FASTENERS	ST. STEEL	P.H. SMS
M29	#12 X 1"	AS REQD.	BUMPER FASTENERS	ST. STEEL	P.H. SMS
M30	#10 X 1 1/4"	4/ CORNER	PANEL ASSEMBLY SCREWS	ST. STEEL	P.H. SMS
M31	#8 X 3/4"	2/ ROLLER	ROLLER FASTENERS	ST. STEEL	F.H. SMS
M32	#10 X 1/2"	2/ CLIP	FIX. CLIP FASTENERS	ST. STEEL	HWH SMS
M33	#8 X 1/2"	2/ HANDLE	HANDLE SET FASTENERS	ST. STEEL	F.H. SMS
M34	#10 X 1/2"	2/ CLIP	FIX. PANEL CLIP FASTENERS	ST. STEEL	F.H. SMS
M34A	#10 X 1/2"	4/ ANGLE	RETAINER ANGLE FASTENERS	ST. STEEL	F.H. SMS
M35	#8 X 1"	AS REQD.	ASTRAGAL ADAPTER FASTENERS, AT 4" FROM EACH END	ST. STEEL	P.H. SMS
M36	#8 X 3/8"	2/ GUIDE	BOTTOM GUIDE FASTENERS	ST. STEEL	P.H. SMS

SEALANT:

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

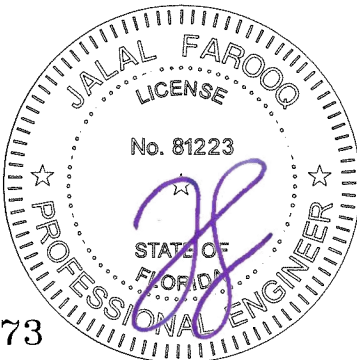
LOCK:

SURFACE MOUNT METALLIC HANDLE AT 43-1/4" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #10-32 X 2-1/2" OH MS

SURFACE MOUNT METALLIC 3 PLY DUAL HOOK LOCK
43-1/4" FROM BOTTOM
FASTENED TO LOCK STILE WITH
(2) #8 X 3/4" PH SMS

SURFACE MOUNT METALLIC KEEPER AT 43-1/4" FROM BOTTOM
FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH
(3) #8 X 3/4" PH SMS

Sealed: 9/22/2026



FL #22973



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

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

revisions:

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date: 07-24-17

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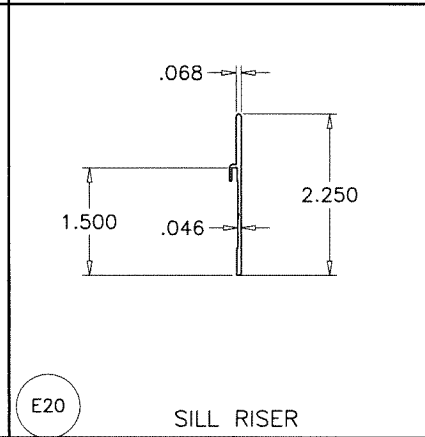
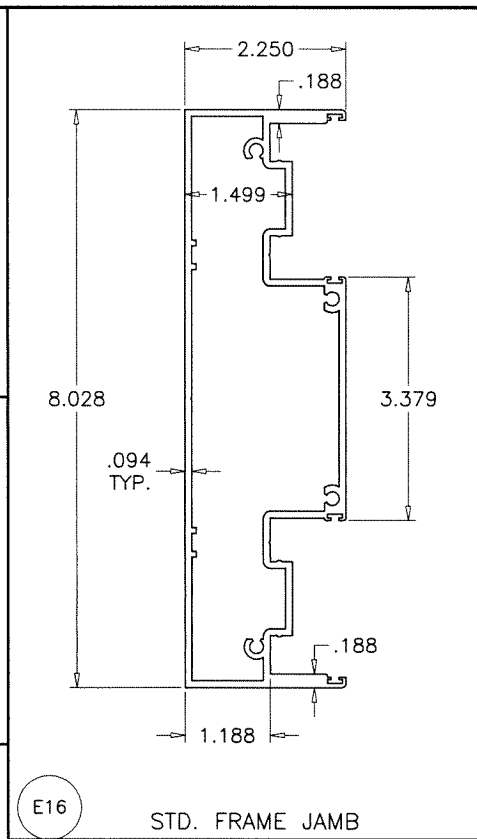
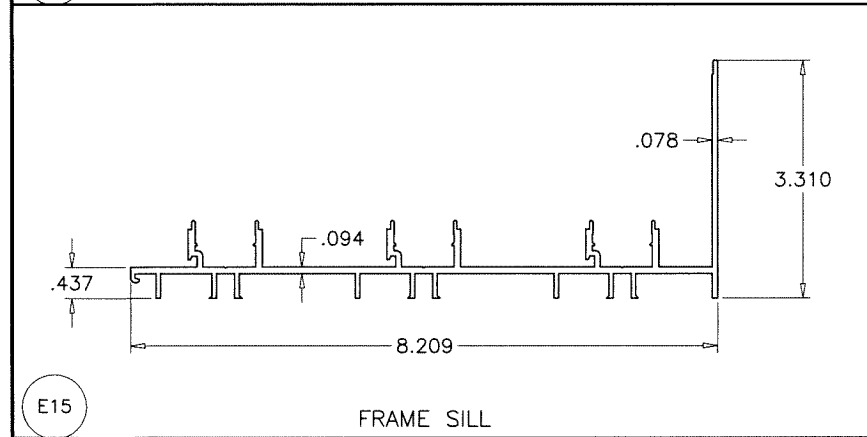
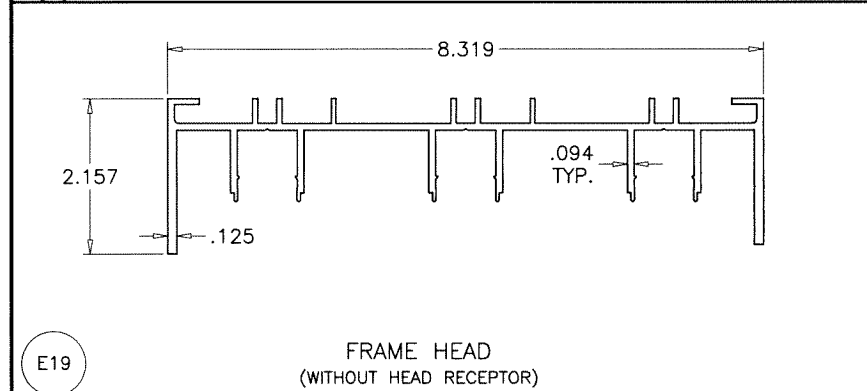
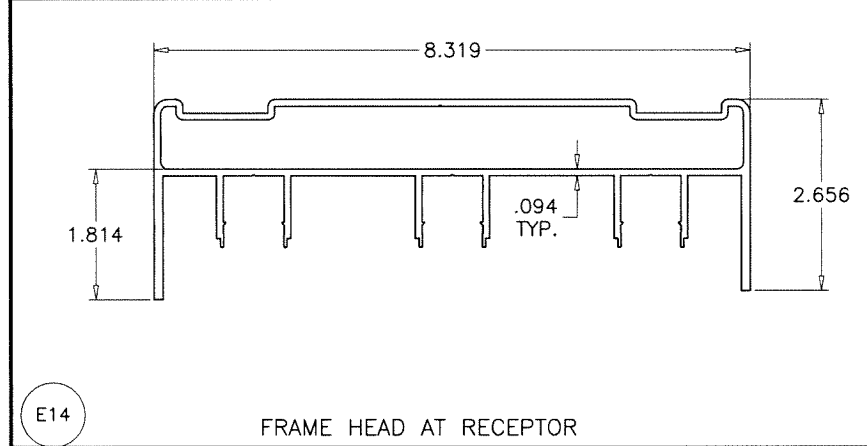
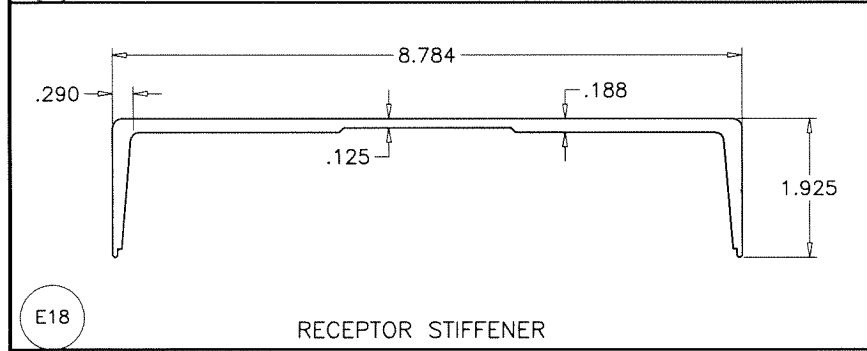
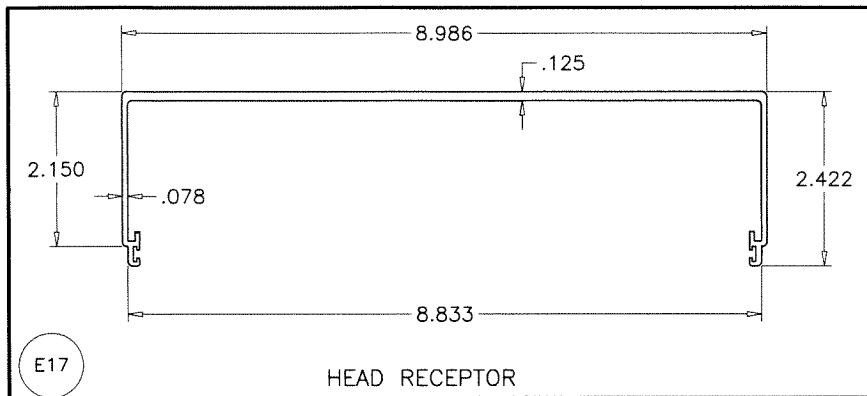
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chk. by:

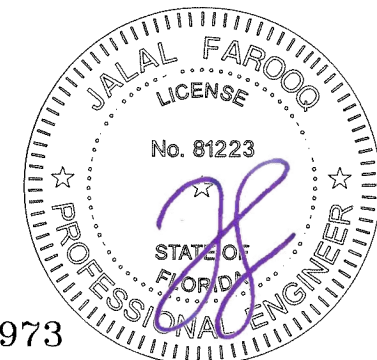
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sheet 13 of 16



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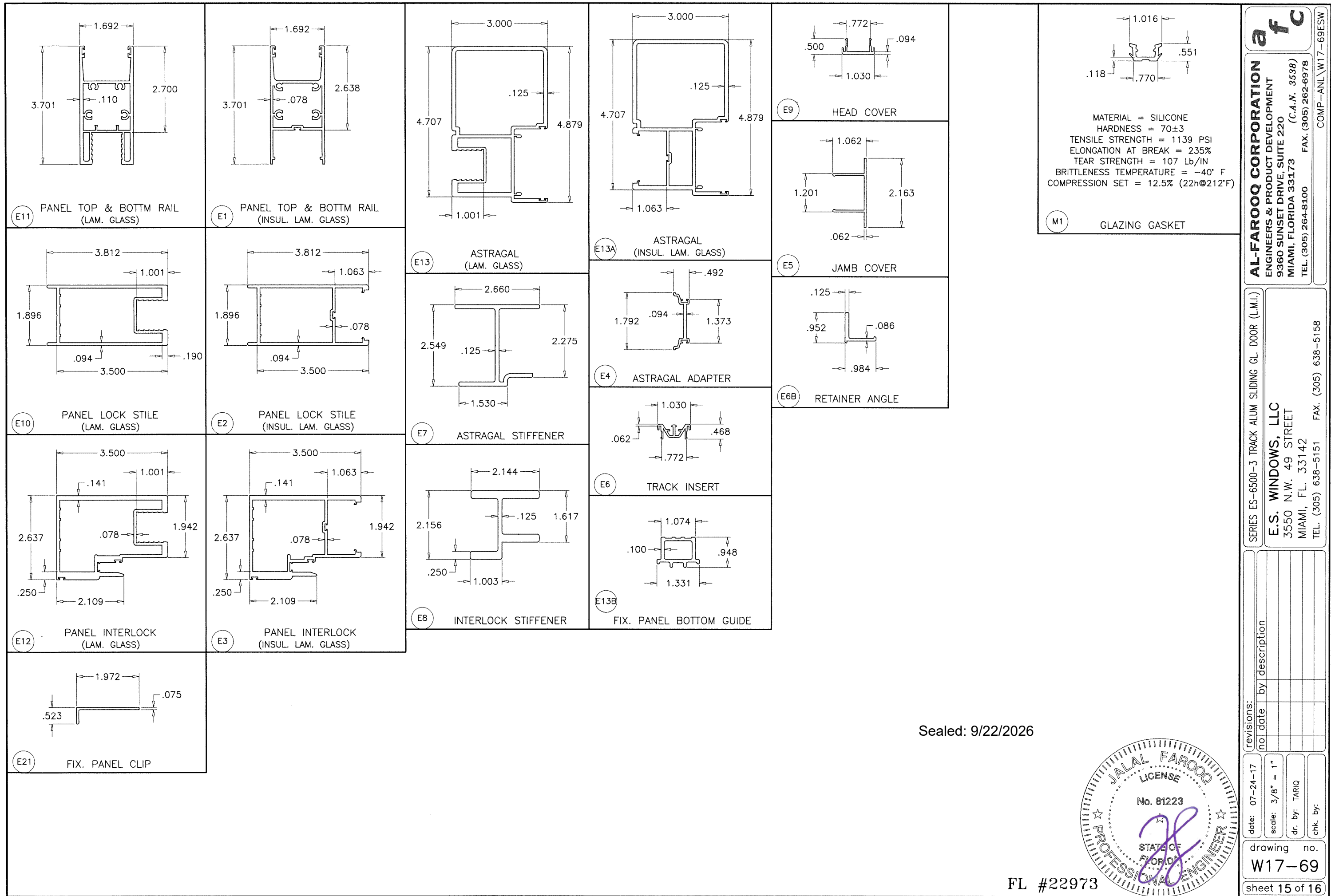
SERIES ES-6500-3 TRACK ALUM SLIDING GL. DOOR (L.M.I.)

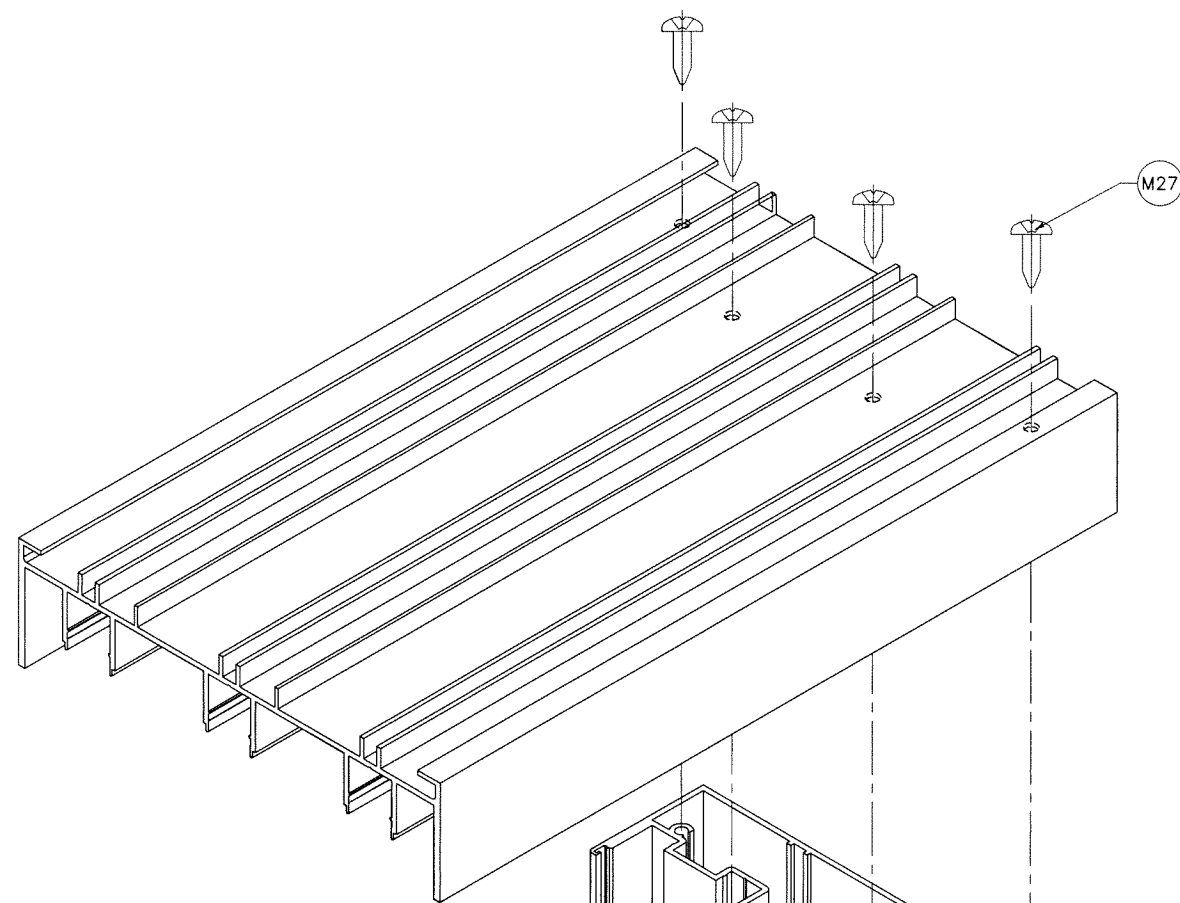
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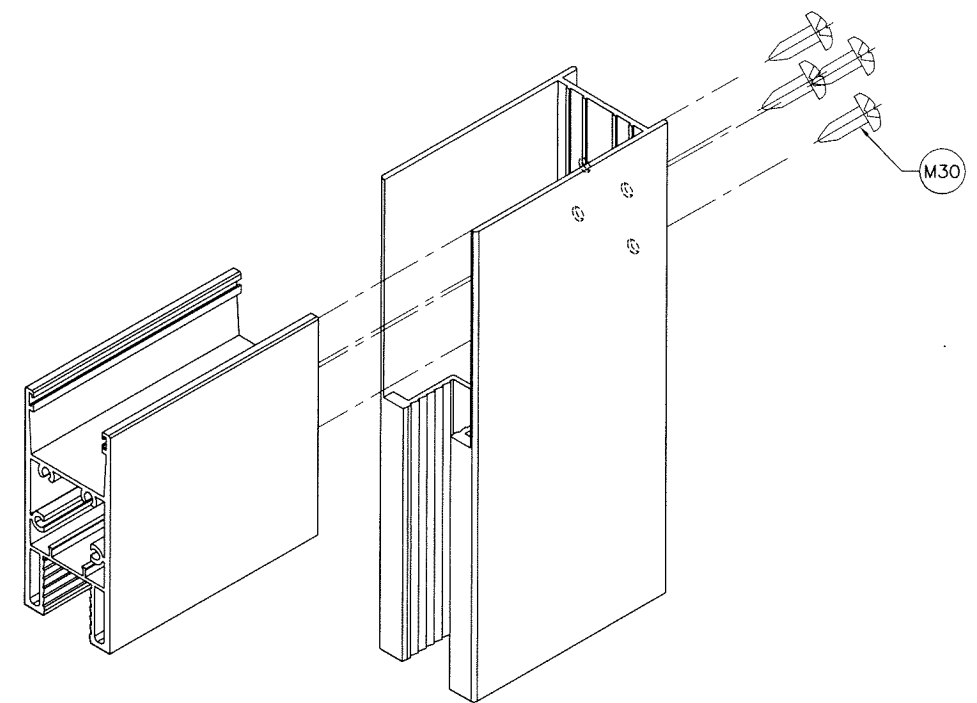
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chk. by:

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W17-69
sheet 14 of 16

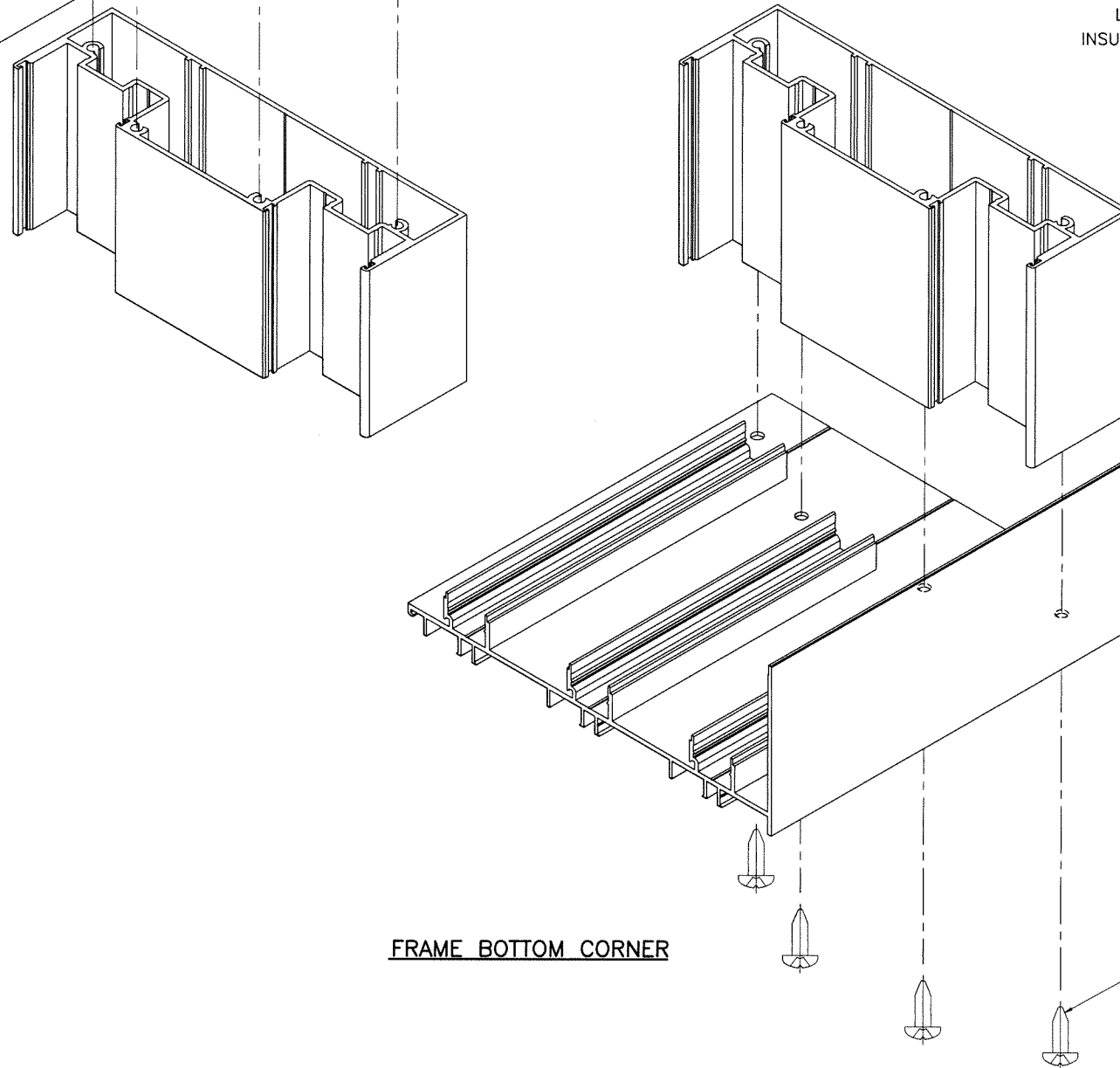




FRAME TOP CORNER



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



FRAME BOTTOM CORNER

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FL #22973

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no date	by description			

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scale: $3/8" = 1"$

dr. by: TARIQ

chk. by:

drawing no.

W17-69

sheet 16 of 16