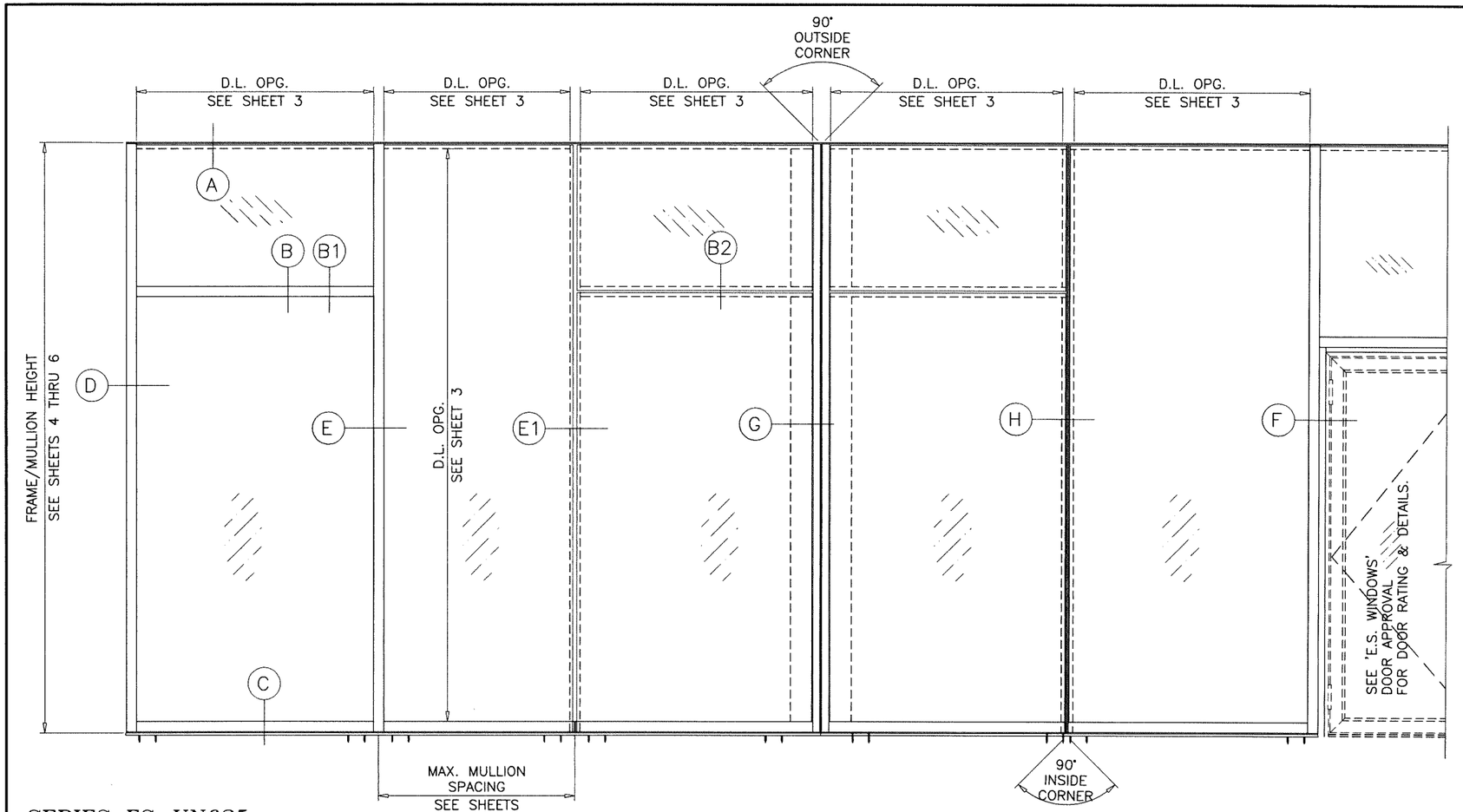
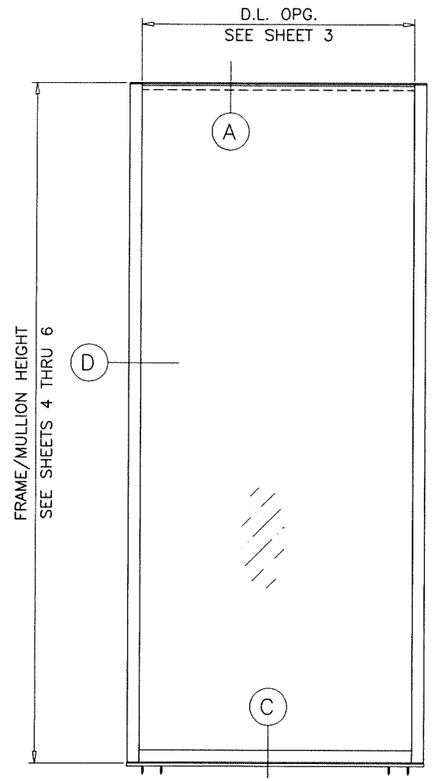




TYPICAL ELEVATIONS

SERIES ES-UN625
ALUMINUM CURTAIN WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPROVED NON IMPACT DOORS.
LOWER DESIGN PRESSURE FROM WINDOW WALL OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE FOR NON HIGH VELOCITY HURRICANE ZONE.

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.

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 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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1 DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2 SEE CHARTS ON SHEET 3 FOR GLASS DESIGN LOAD CAPACITY.

STEP 3 CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 4 THRU 6 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 4 CHECK ANCHOR CAPACITY FOR HEAD AND SILL ANCHORS USING CHARTS ON SHEET 7.
FOR INTERMEDIATE ANCHORS AT MULTIPLE SPANS SEE CHART ON SHEET 7 FOR CAPACITY AND SHEETS 11 THRU 13 FOR DETAILS.

STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

STEP 6 FOR SYSTEMS WITH UNANCHORED JAMBS, USING SHEET 9, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.

STEP 7 WHEN USING THIS SYSTEM WITH DOORS, THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

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.

THIS SYSTEM IS NOT RATED FOR IMPACT.
INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA SHALL MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

Sealed: 10/15/2026

FL #21066

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.

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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\W16-10ESW

SERIES ES-UN625 ALUM. CURTAIN WALL SYS. (N.I.)

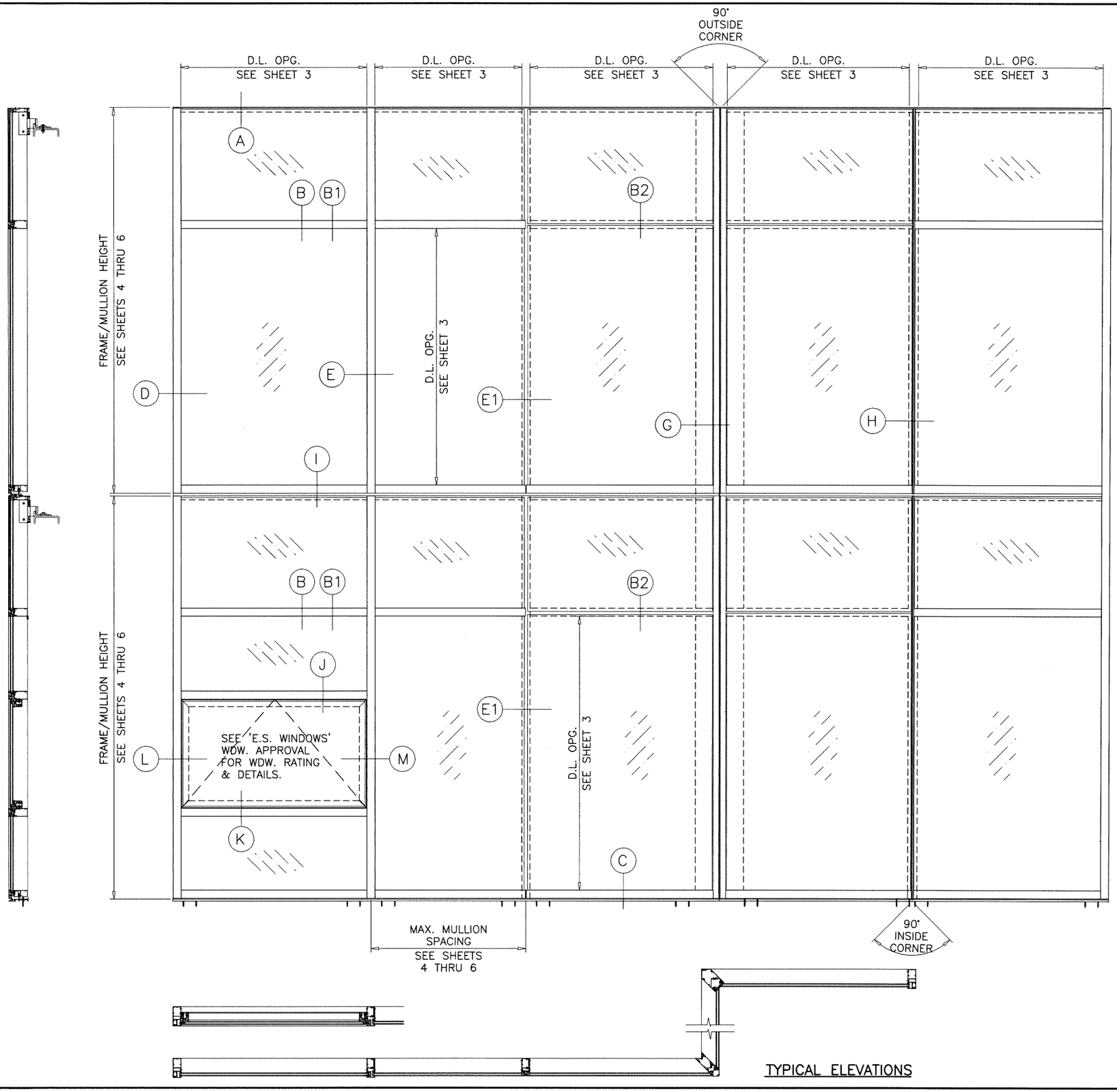
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:			
no	date	by	description
A	01.30.18		UPDATED TO 2017 FBC
B	12.04.20		UPDATED TO 2020 FBC
C	09.27.23		UPDATED TO 2023 FBC
D	10.14.26		UPDATED TO 2026 FBC

date: 02-10-16
scale: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. W16-10

sheet 1 of 17



TYPICAL ELEVATIONS

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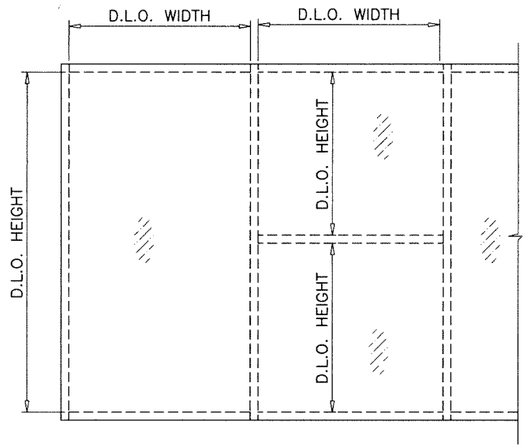
chk. by:

drawing no. W16-10

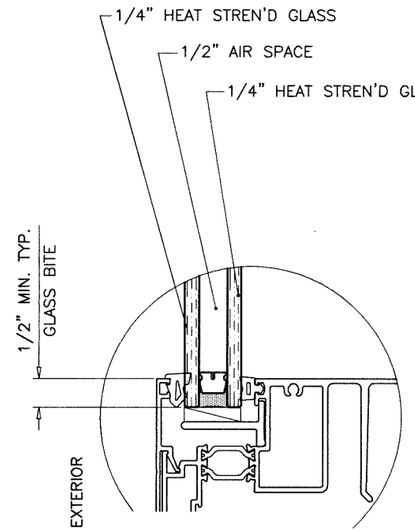
sheet 2 of 17

GLASS DESIGN LOAD CAPACITY – PSF		
NOMINAL DIMS.		1" OVERALL INSUL. GLASS
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (–)
25"	82–1/2"	55.0
31"		55.0
37"		55.0
43"		55.0
49"		55.0
55"		55.0
25"	94–1/2"	55.0
31"		55.0
37"		55.0
43"		55.0
49"		55.0
25"	106–1/2"	55.0
31"		55.0
37"		55.0
43"		55.0
25"	119–3/4"	55.0
31"		55.0
37"		55.0

INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.



NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300–16 (3 SEC. GUSTS).



GLAZING DETAIL

1" OVERALL INSUL. GLASS

1/2" AIR SPACE CONSISTING OF:

EDGE SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.

EDGE SEALANT FOR CAPTURED GLASS (W/ PRESS PLATE):
SILICONE
DOWSIL 791
GE 2000

EDGE SEALANT FOR SSG GLASS (W/O PRESS PLATE):
1/4" HIGH SILICONE MIN.
ULTIMATE TENSILE STRENGTH PER ASTM C1135=150 PSI MIN.
ALTERNATE CAN BE DESIGNED BY EOR.

Sealed: 10/15/2026

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revisions:

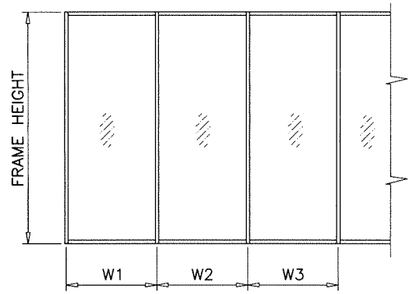
no	date	by	description

date: 02–10–16
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. W16–10

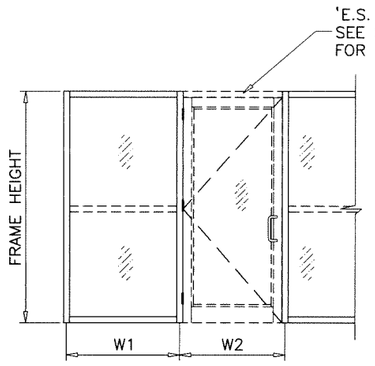
MULLION DESIGN LOAD CAPACITY – PSF SINGLE SPANS WITHOUT INTERMEDIATE HORIZONTALS							
NOMINAL DIMS.		JAMB 'J' MULL 'M1'		JAMB 'J' MULL 'M2'		JAMB 'J' MULL 'M3' & 'M4'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
30"	87–3/8"	55.0	55.0	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0	55.0	55.0
42"		55.0	55.0	55.0	55.0	55.0	55.0
48"		55.0	55.0	55.0	55.0	55.0	55.0
54"		55.0	55.0	55.0	55.0	55.0	55.0
60"		55.0	55.0	50.2	50.2	55.0	55.0

INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.

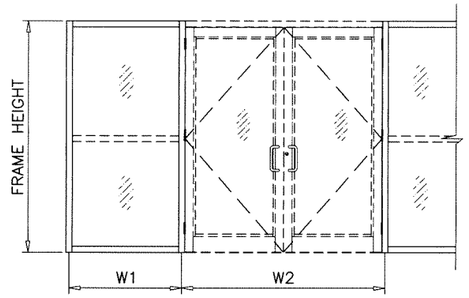


WIDTH (W) AT JAMB = W1

WIDTH (W) AT MULLION = $\frac{W2 + W3}{2}$

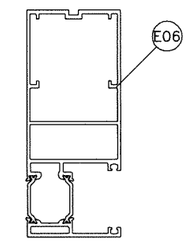


WIDTH (W) AT MULLION = $\frac{W1 + W2}{2}$



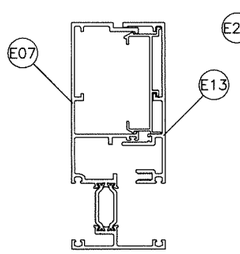
WIDTH (W) AT MULLION = $\frac{W1}{2} + \frac{W2}{4}$

MAX. DOOR HEIGHTS FOR WINDOW WALL WITH DOORS
TO BE LIMITED TO THE MAX. APPROVED DOOR HEIGHTS.



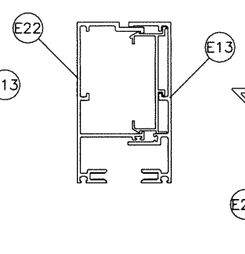
JAMB 'J'

Ix IN^4	Sx IN^3
5.977	1.933



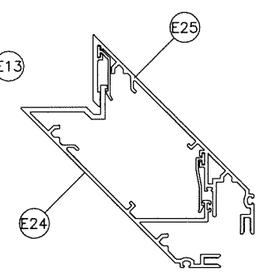
MULLION 'M1'

Ix IN^4	Sx IN^3
5.856	1.914



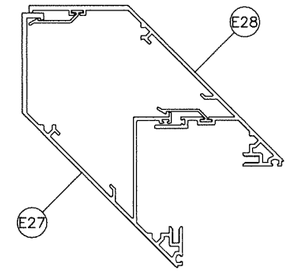
MULLION 'M2'

Ix IN^4	Sx IN^3
3.50	1.59



MULLION 'M3'

Ix IN^4	Sx IN^3
6.197	1.87



MULLION 'M4'

Ix IN^4	Sx IN^3
6.40	1.72

Sealed: 10/15/2026

FL #21066

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date: 02–10–16
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

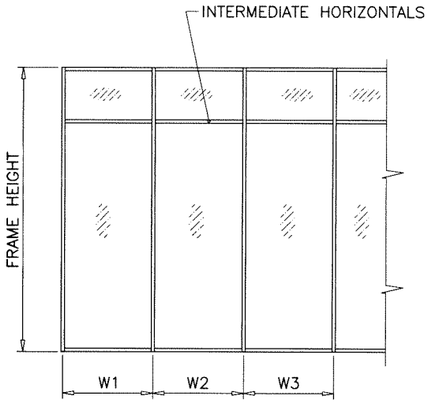
drawing no. W16–10

sheet 4 of 17

MULLION DESIGN LOAD CAPACITY – PSF
SINGLE SPANS WITH INTERMEDIATE HORIZONTALS

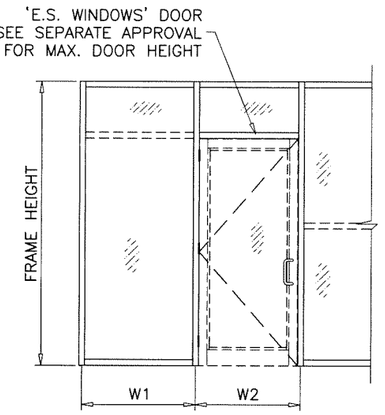
NOMINAL DIMS.		JAMB 'J' MULL 'M1'		JAMB 'J' MULL 'M2'		JAMB 'J' MULL 'M3' & 'M4'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
30"	87–3/8"	55.0	55.0	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0	55.0	55.0
42"		55.0	55.0	55.0	55.0	55.0	55.0
48"		55.0	55.0	55.0	55.0	55.0	55.0
54"		55.0	55.0	55.0	55.0	55.0	55.0
60"		55.0	55.0	50.8	50.8	55.0	55.0
30"	99–3/8"	55.0	55.0	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0	55.0	55.0
42"		55.0	55.0	52.7	52.7	55.0	55.0
48"		55.0	55.0	46.1	46.1	55.0	55.0
54"		52.7	52.7	41.0	41.0	55.0	55.0
60"		47.4	47.4	36.9	36.9	55.0	55.0
30"	111–3/8"	55.0	55.0	52.4	52.4	55.0	55.0
36"		55.0	55.0	43.7	43.7	55.0	55.0
42"		53.3	53.3	37.4	37.4	55.0	55.0
48"		46.7	46.7	32.8	32.8	55.0	55.0
54"		41.5	41.5	29.1	29.1	55.0	55.0
60"		37.3	37.3	26.2	26.2	55.0	55.0
30"	124–5/8"	55.0	55.0	37.4	37.4	55.0	55.0
36"		49.1	49.1	31.2	31.2	55.0	55.0
42"		42.1	42.1	26.7	26.7	55.0	55.0
48"		36.8	36.8	23.4	23.4	55.0	55.0
54"		32.7	32.7	20.8	20.8	55.0	55.0
60"		29.5	29.5	–	–	55.0	55.0

INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.



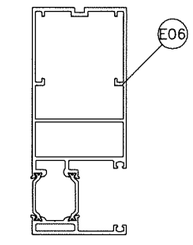
WIDTH (W) = W1
AT JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION



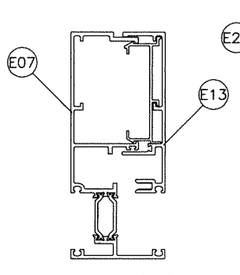
WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION

MAX. DOOR HEIGHTS FOR WINDOW WALL WITH DOORS TO BE LIMITED TO THE MAX. APPROVED DOOR HEIGHTS.



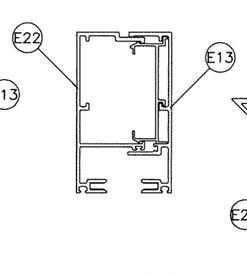
JAMB 'J'

Ix IN^4	Sx IN^3
5.977	1.933



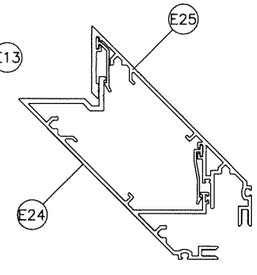
MULLION 'M1'

Ix IN^4	Sx IN^3
5.856	1.914



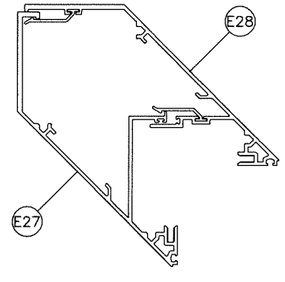
MULLION 'M2'

Ix IN^4	Sx IN^3
3.50	1.59



MULLION 'M3'

Ix IN^4	Sx IN^3
6.197	1.87



MULLION 'M4'

Ix IN^4	Sx IN^3
6.40	1.72

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date: 02–10–16
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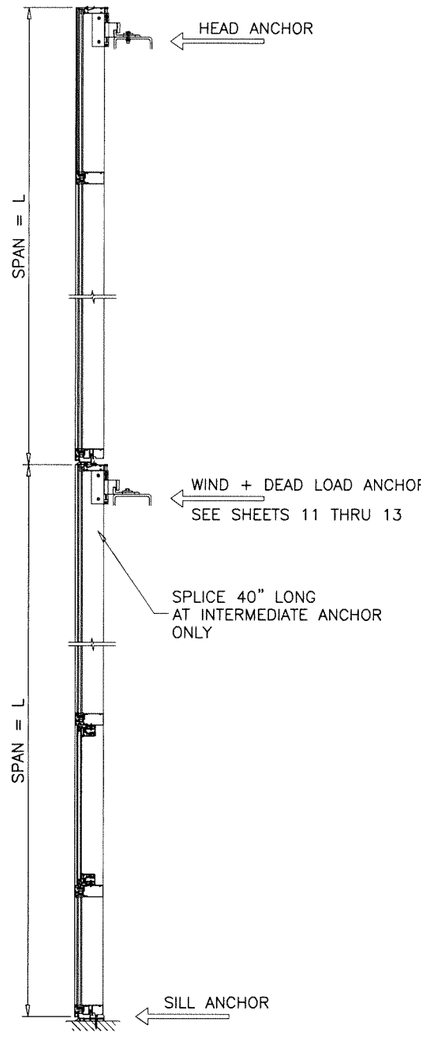
dr. by: TARIQ
chk. by:

drawing no. W16–10

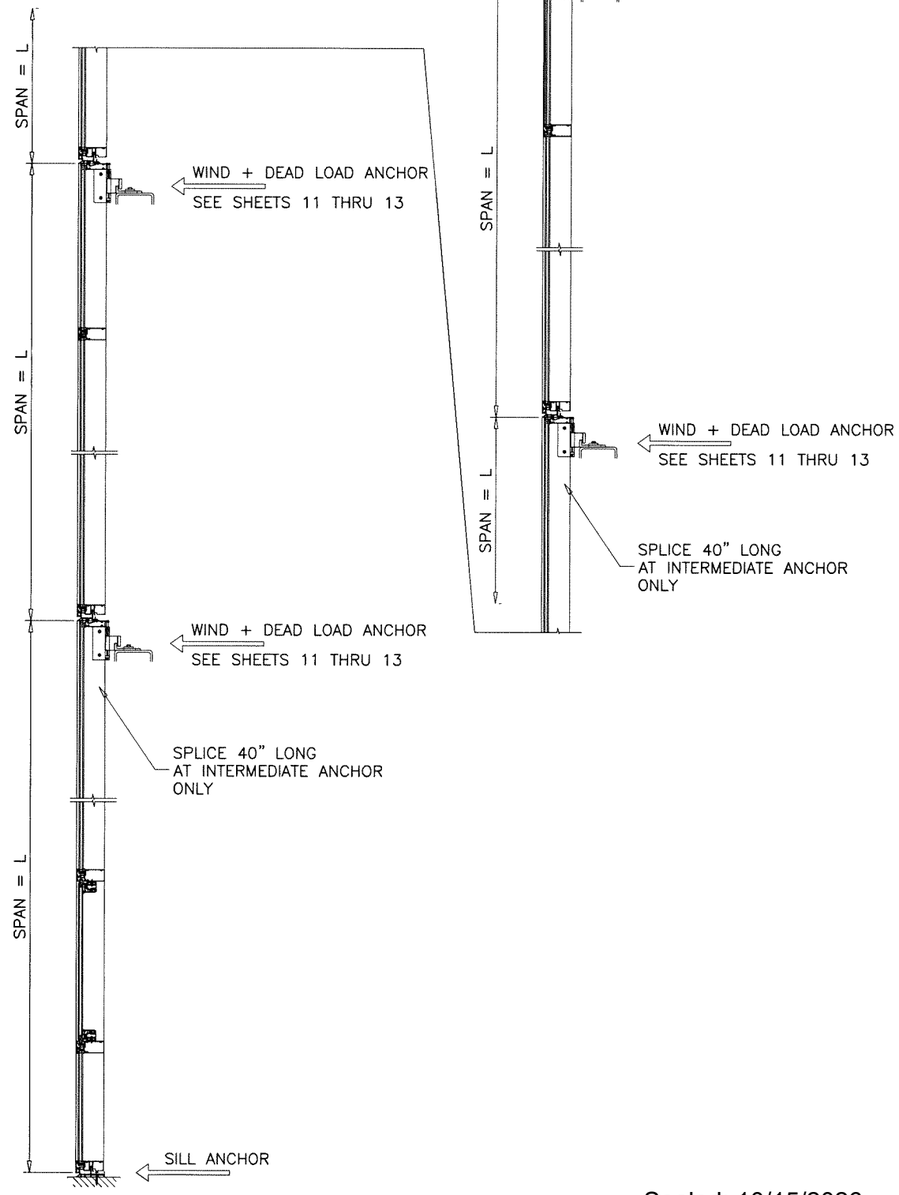
sheet 5 of 17

MULLION DESIGN LOAD CAPACITY – PSF EQUAL LENGTHS TWO SPANS & MULTIPLE SPANS							
NOMINAL DIMS.		JAMB 'J' MULL 'M1'		JAMB 'J' MULL 'M2'		JAMB 'J' MULL 'M3' & 'M4'	
WIDTH (W)	SPAN = L	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
30"	87–3/8"	55.0	55.0	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0	55.0	55.0
42"		55.0	55.0	55.0	55.0	55.0	55.0
48"		55.0	55.0	55.0	55.0	55.0	55.0
54"		55.0	55.0	55.0	55.0	55.0	55.0
60"		55.0	55.0	50.8	50.8	55.0	55.0
30"	99–3/8"	55.0	55.0	55.0	55.0	55.0	55.0
36"		55.0	55.0	55.0	55.0	55.0	55.0
42"		55.0	55.0	52.7	52.7	55.0	55.0
48"		55.0	55.0	46.1	46.1	55.0	55.0
54"		52.7	52.7	41.0	41.0	55.0	55.0
60"		47.4	47.4	36.9	36.9	55.0	55.0
30"	111–3/8"	55.0	55.0	52.4	52.4	55.0	55.0
36"		55.0	55.0	43.7	43.7	55.0	55.0
42"		53.3	53.3	37.4	37.4	55.0	55.0
48"		46.7	46.7	32.8	32.8	55.0	55.0
54"		41.5	41.5	29.1	29.1	55.0	55.0
60"		37.3	37.3	26.2	26.2	55.0	55.0
30"	124–5/8"	55.0	55.0	37.4	37.4	55.0	55.0
36"		49.1	49.1	31.2	31.2	55.0	55.0
42"		42.1	42.1	26.7	26.7	55.0	55.0
48"		36.8	36.8	23.4	23.4	55.0	55.0
54"		32.7	32.7	20.8	20.8	55.0	55.0
60"		29.5	29.5	–	–	55.0	55.0

INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.



TWO SPAN



MULTIPLE SPANS

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FL #21066

AL-FAROOQ CORPORATION
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TEL. (305) 264-8100 FAX. (305) 262-6978

COMP–ANL\W16–10ESW

SERIES ES–UN625 ALUM. CURTAIN WALL SYS. (N.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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HEAD ANCHOR LOAD CAPACITY – PSF (JAMB, MULLION & INSIDE CORNER MULLION) EXT.(+) & INT.(–)			
NOMINAL DIMS.		2 ANCHORS AT JAMB & MULLION 4 ANCHORS AT CORNER MULLION	
WIDTH (W)	SPAN = L	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'
30"	87–3/8"	55.0	55.0
36"		55.0	55.0
42"		55.0	55.0
48"		55.0	55.0
54"		55.0	55.0
60"		55.0	55.0
30"	99–3/8"	55.0	55.0
36"		55.0	55.0
42"		55.0	55.0
48"		55.0	55.0
54"		53.9	55.0
60"		48.5	55.0
30"	111–3/8"	55.0	55.0
36"		55.0	55.0
42"		55.0	55.0
48"		54.1	55.0
54"		48.1	55.0
60"		43.3	55.0
30"	124–5/8"	55.0	55.0
36"		55.0	55.0
42"		55.0	55.0
48"		48.4	55.0
54"		43.0	55.0
60"		38.7	55.0

HEAD ANCHOR LOAD CAPACITY – PSF (OUTSIDE CORNER MULLION ONLY) EXT.(+) & INT.(–)			
NOMINAL DIMS.		4 ANCHORS AT CORNER MULLION	
WIDTH (W)	SPAN = L	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'
30"	87–3/8"	55.0	55.0
36"		52.9	55.0
42"		45.3	55.0
48"		39.6	55.0
54"		35.2	55.0
60"		31.7	52.4
30"	99–3/8"	55.0	55.0
36"		46.5	55.0
42"		39.8	55.0
48"		34.9	55.0
54"		31.0	51.2
60"		27.9	46.1
30"	111–3/8"	49.8	55.0
36"		41.5	55.0
42"		35.5	55.0
48"		31.1	51.4
54"		27.6	45.7
60"		24.9	41.1
30"	124–5/8"	44.5	55.0
36"		37.1	55.0
42"		31.8	52.5
48"		27.8	45.9
54"		24.7	40.8
60"		22.2	36.7

SILL ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)				
NOMINAL DIMS.		NUMBER OF ANCHORS AT EACH JAMB AND EACH SIDE OF MULLION		
WIDTH (W)	SPAN = L	2 ANCHORS	3 ANCHORS	4 ANCHORS
30"	87–3/8"	55.0	55.0	55.0
36"		55.0	55.0	55.0
42"		53.1	55.0	55.0
48"		46.4	55.0	55.0
54"		41.3	55.0	55.0
60"		37.1	55.0	55.0
30"	99–3/8"	55.0	55.0	55.0
36"		54.4	55.0	55.0
42"		46.6	55.0	55.0
48"		40.8	55.0	55.0
54"		36.3	54.4	55.0
60"		32.7	49.0	55.0
30"	111–3/8"	55.0	55.0	55.0
36"		48.6	55.0	55.0
42"		41.6	55.0	55.0
48"		36.4	54.6	55.0
54"		32.4	48.6	55.0
60"		29.1	43.7	55.0
30"	124–5/8"	52.1	55.0	55.0
36"		43.4	55.0	55.0
42"		37.2	55.0	55.0
48"		32.5	48.8	55.0
54"		28.9	43.4	55.0
60"		26.0	39.1	52.1

WIND + DEAD LOAD ANCHOR CAPACITY – PSF (JAMB, MULLION & INSIDE CORNER MULLION) EXT.(+) & INT.(–)			
NOMINAL DIMS.		2 ANCHORS AT JAMB & MULLION 4 ANCHORS AT CORNER MULLION	
WIDTH (W)	SPAN = L	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'
30"	87–3/8"	55.0	55.0
36"		46.0	55.0
42"		39.4	55.0
48"		34.5	55.0
54"		30.7	50.7
60"		27.6	45.6
30"	99–3/8"	48.5	55.0
36"		40.4	55.0
42"		34.7	55.0
48"		30.3	50.1
54"		27.0	44.5
60"		24.3	40.1
30"	111–3/8"	43.3	55.0
36"		36.1	55.0
42"		30.9	51.1
48"		27.1	44.7
54"		24.0	39.7
60"		21.6	35.8
30"	124–5/8"	38.7	55.0
36"		32.2	53.3
42"		27.6	45.7
48"		24.2	40.0
54"		21.5	35.5
60"		–	32.0

WIND + DEAD LOAD ANCHOR CAPACITY – PSF (OUTSIDE CORNER MULLION ONLY) EXT.(+) & INT.(–)			
NOMINAL DIMS.		4 ANCHORS AT CORNER MULLION	
WIDTH (W)	SPAN = L	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'
30"	87–3/8"	31.7	52.4
36"		26.4	43.7
42"		22.7	37.4
48"		19.8	32.7
54"		–	29.1
60"		–	26.2
30"	99–3/8"	27.9	46.1
36"		23.2	38.4
42"		19.9	32.9
48"		–	28.8
54"		–	25.6
60"		–	23.0
30"	111–3/8"	24.9	41.1
36"		20.7	34.3
42"		–	29.4
48"		–	25.7
54"		–	22.8
60"		–	20.6
30"	124–5/8"	22.2	36.7
36"		–	30.6
42"		–	26.2
48"		–	23.0
54"		–	20.4
60"		–	–

INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.

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COMP-ANL\W16-10ESW

SERIES ES-UN625 ALUM. CURTAIN WALL SYS. (N.I.)

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

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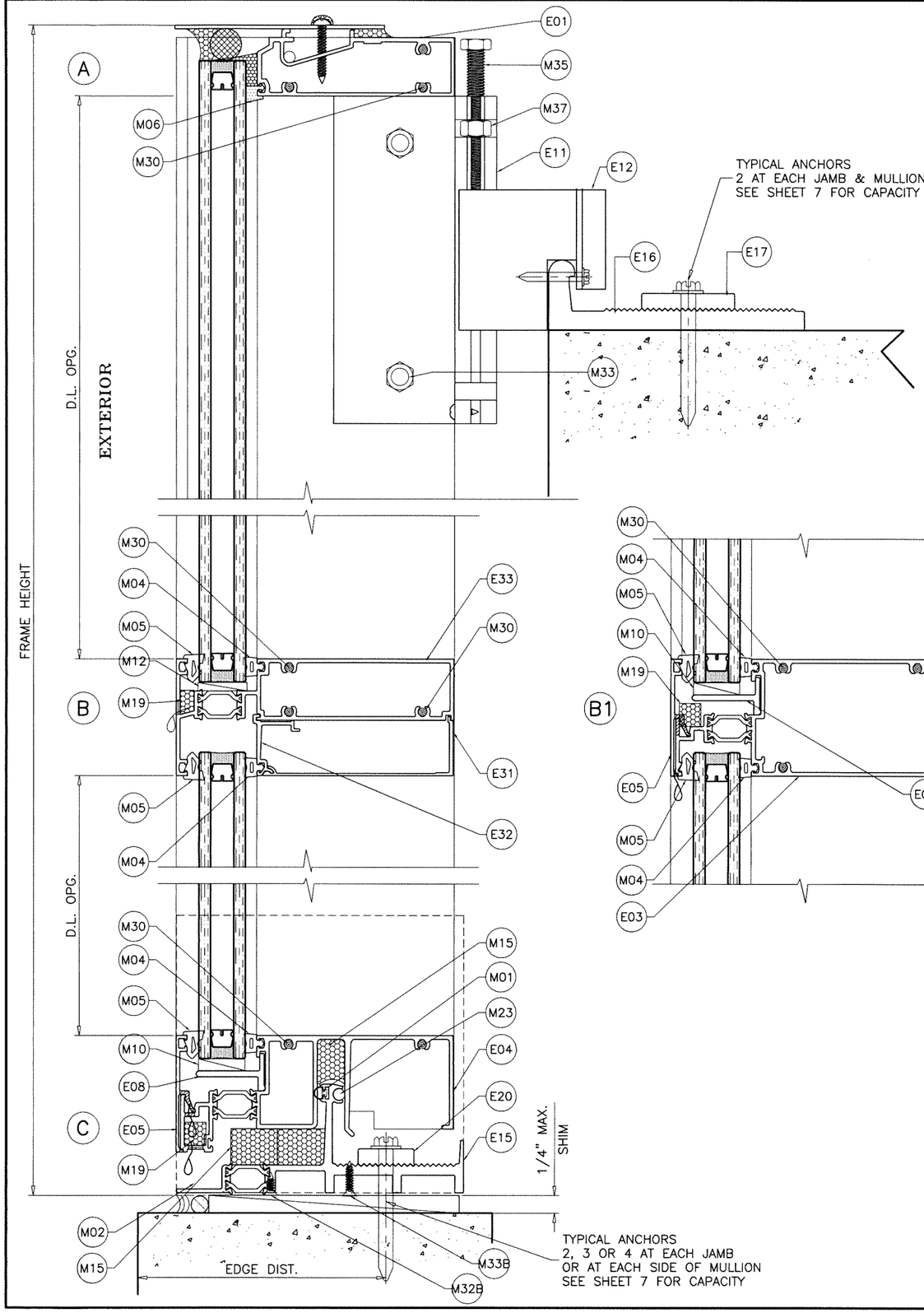

METAL STRUCTURES NOT BY 'E.S. WDW.'
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'

5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)

DIRECTLY INTO CONCRETE
WITH 2" MIN. EMBED INTO CONCRETE, 5" O.C. MIN.

ANCHOR EDGE DISTANCES

INTO CONCRETE = 3-1/8" MIN.

TYPE 'B'

5/16" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1" MIN.

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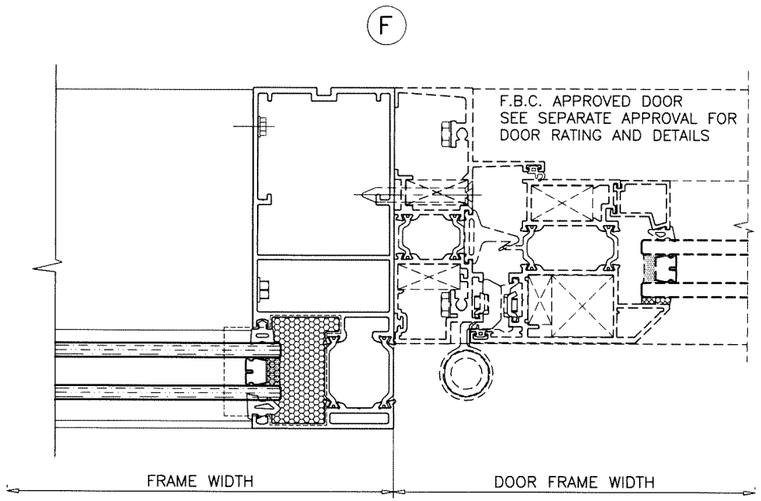

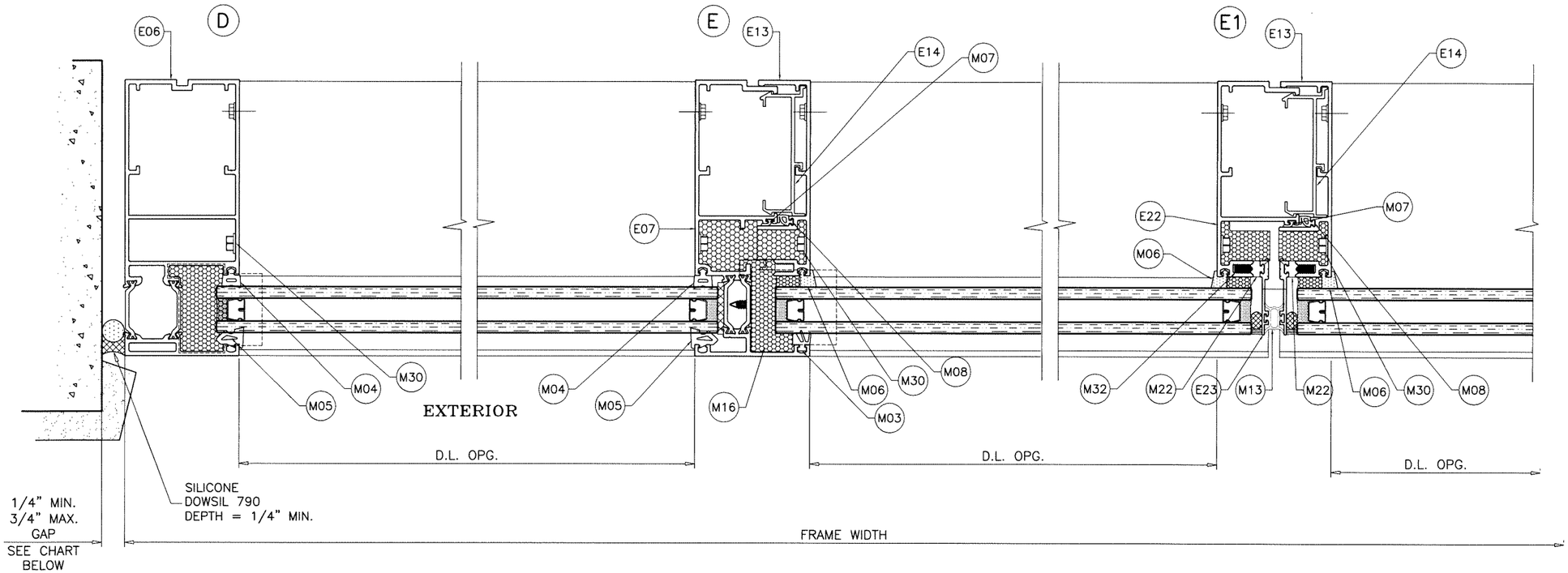

NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
87-3/8"	5/16"	3/4"
99-3/8"	3/8"	3/4"
111-3/8"	1/2"	3/4"
124-5/8"	1/2"	3/4"

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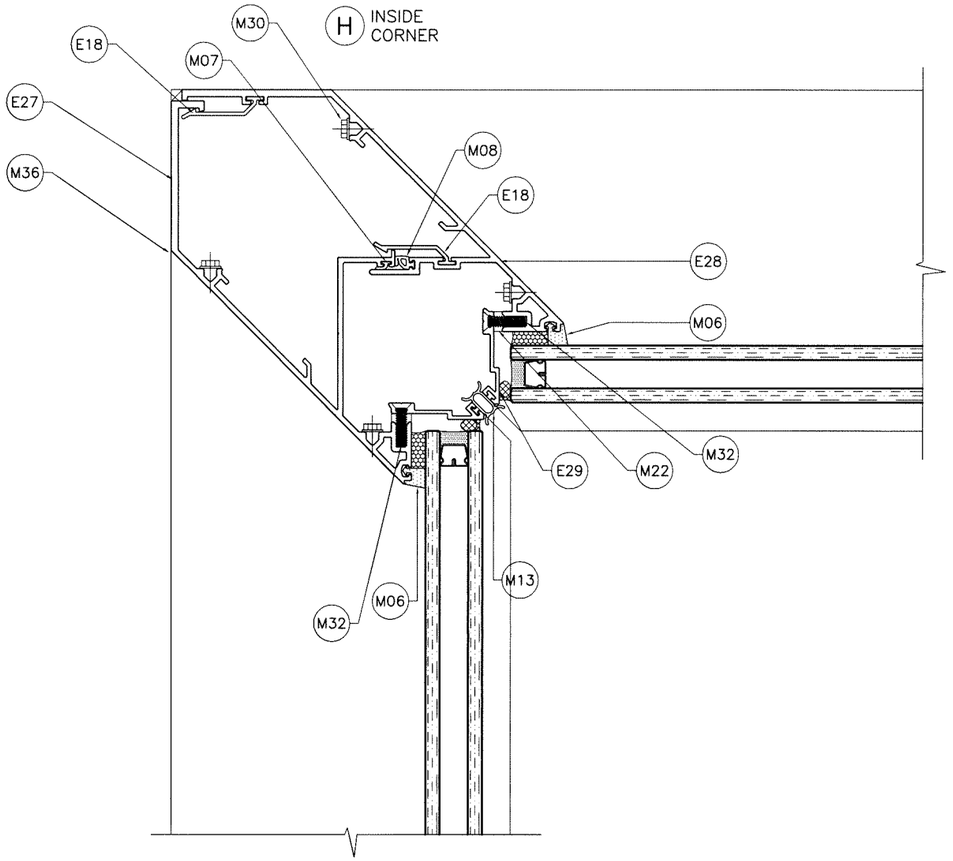
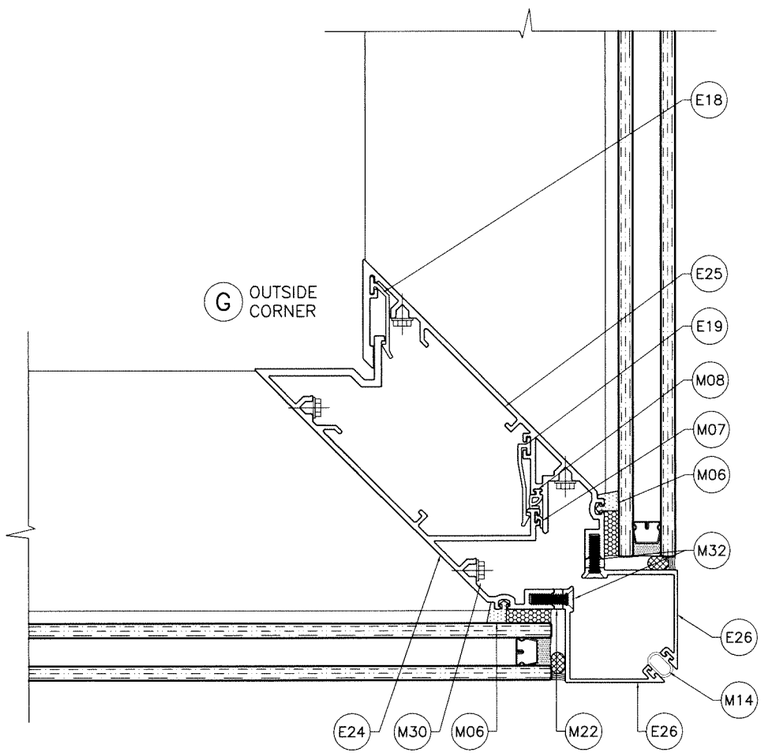
sheet 9 of 17





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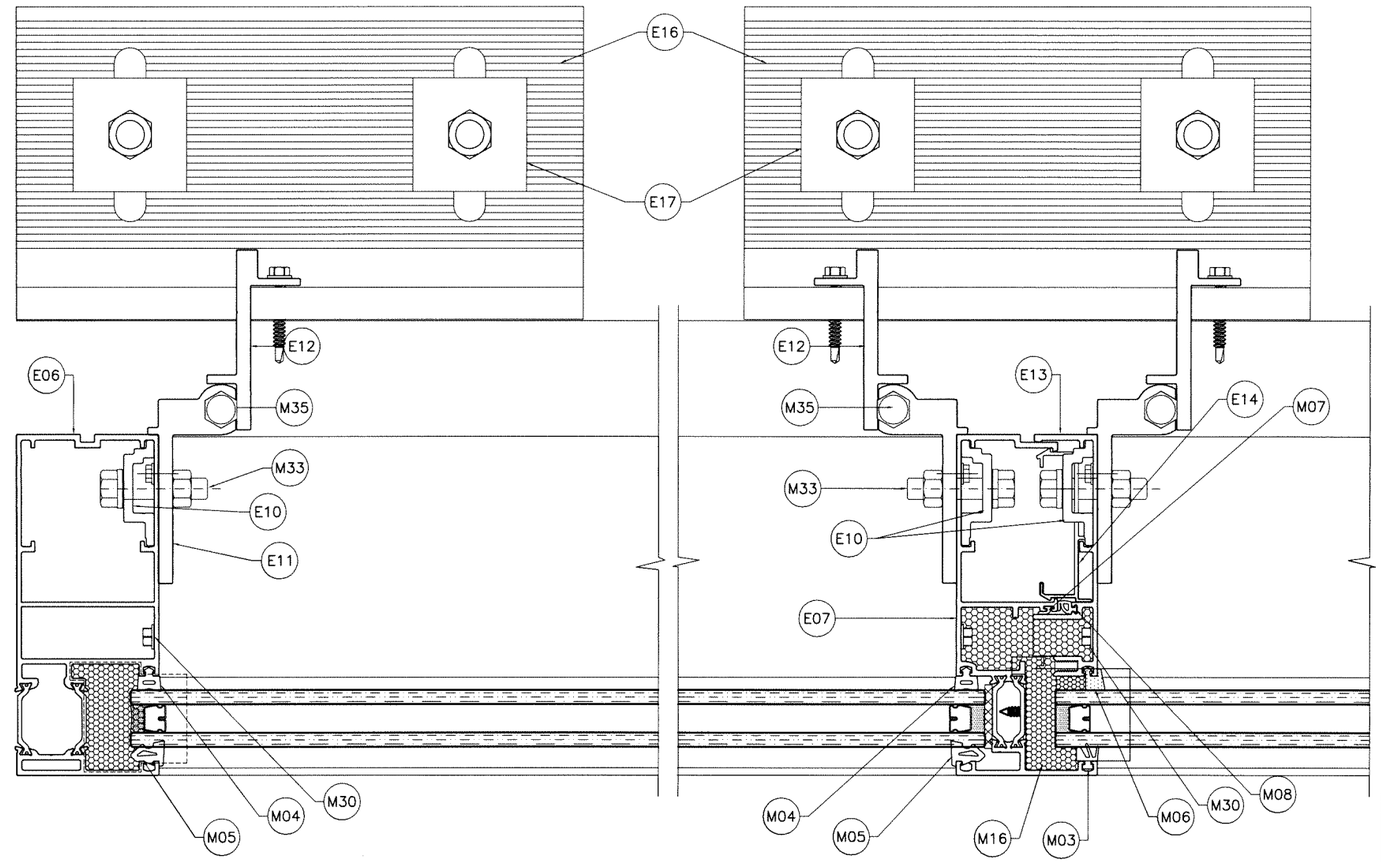
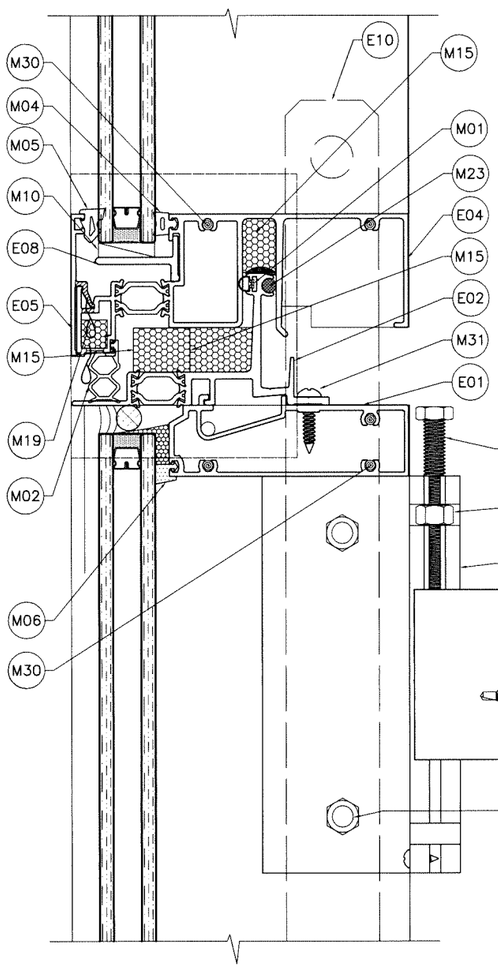
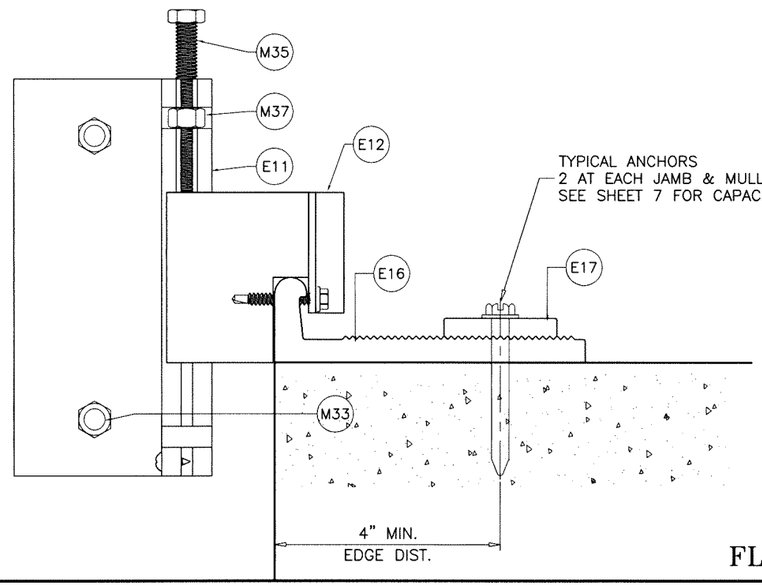
WIND + DEAD LOAD ANCHOR





TYPICAL ANCHORS
2 AT EACH JAMB & MULLION
SEE SHEET 7 FOR CAPACITY



TYPICAL ANCHORS
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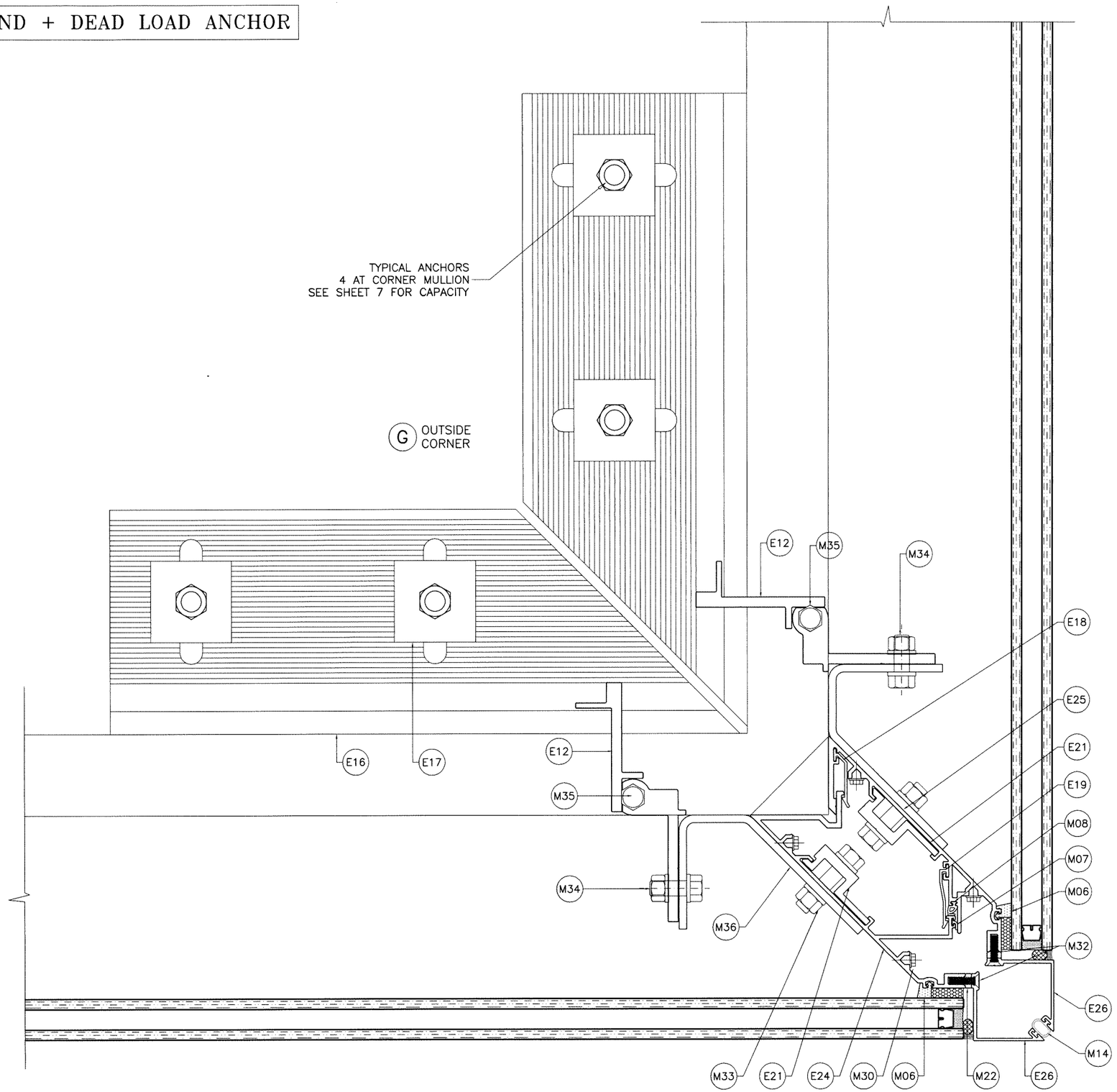
WIND + DEAD LOAD ANCHOR



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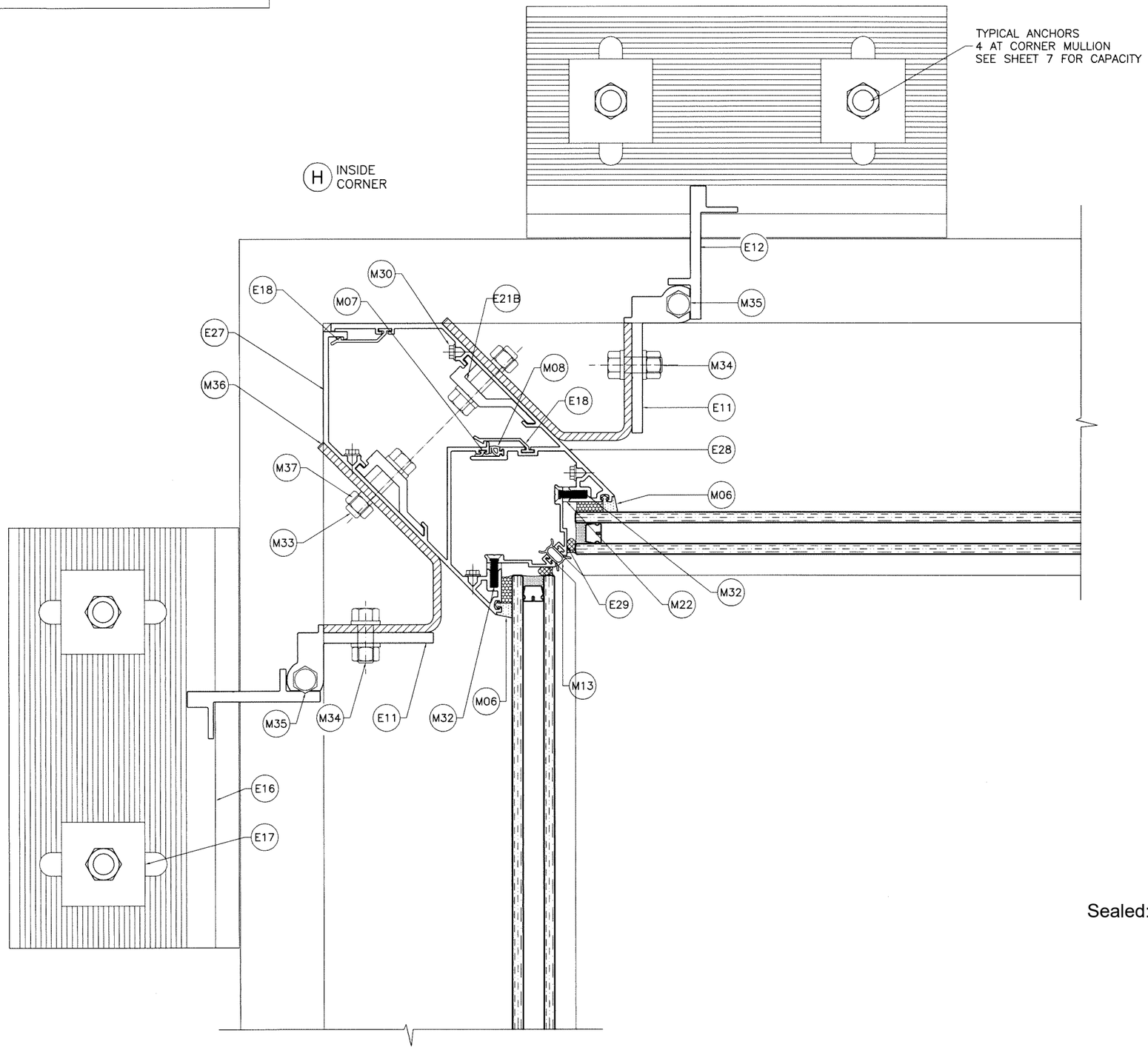

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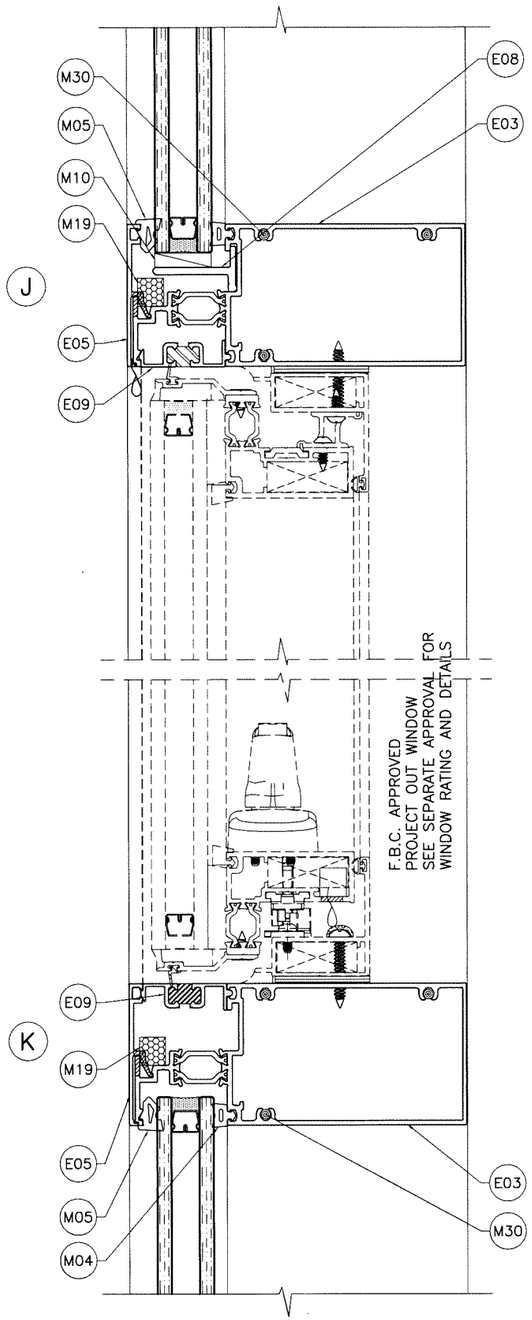

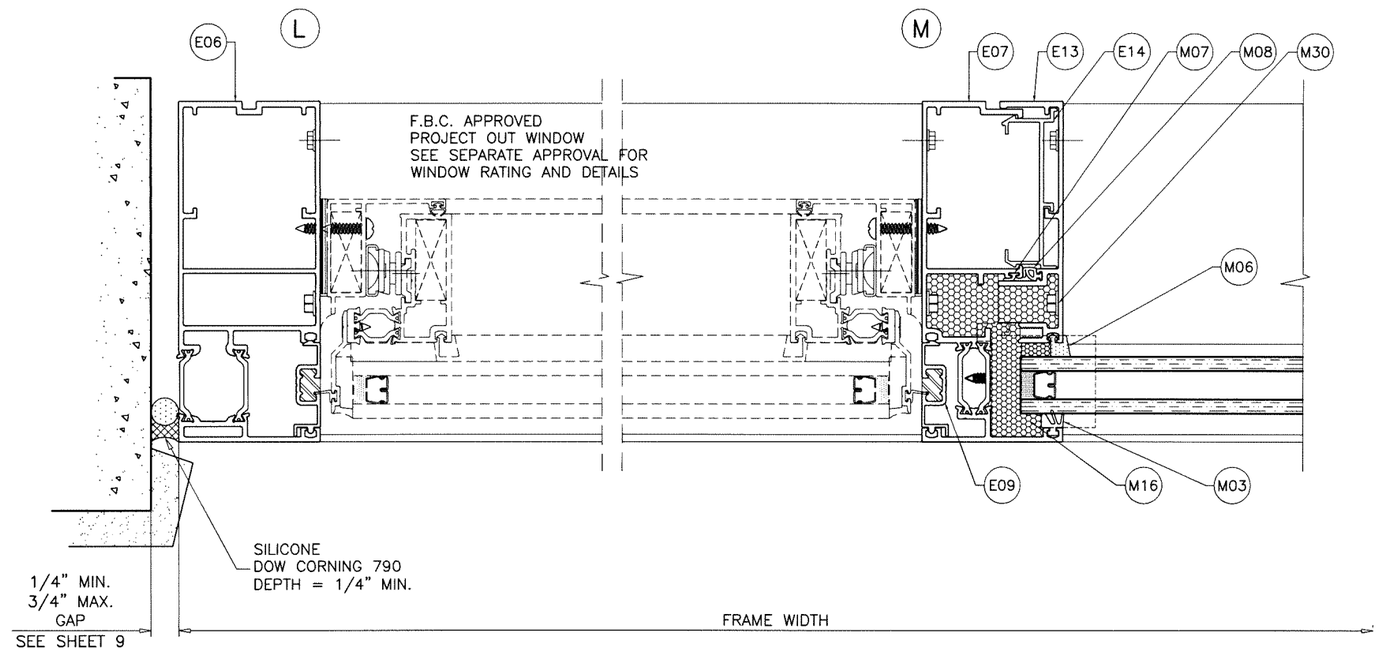

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ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E01	ES-UN625-003	AS REQD.	HEAD CLOSED	6063-T6	-
E02	ES-UN625-501	AS REQD.	CHICKEN HEAD	6063-T6	-
E03	ES-W625-007	AS REQD.	HORIZONTAL	6063-T6	-
E04	ES-UN625-502	AS REQD.	SILL	6063-T6	-
E05	ES-WC25-003	AS REQD.	EXTERIOR GLASS STOP	6063-T6	-
E06	ES-UN625-504	AS REQD.	JAMB	6063-T6	-
E07	ES-UN625-503	AS REQD.	MALE MULLION	6063-T6	-
E08	ES-WC25-011	AS REQD.	SETTING CHAIR 4" LONG, AT GLASS ENDS	6063-T6	-
E09	ES-WC25-017A	AS REQD.	POCKET FILLER	6063-T5	-
E10	ES-UN625-010	AS REQD.	LIFT LUG	6005-T5	-
E11	ES-7530-203	AS REQD.	MULLION ANCHOR 7" LONG	6063-T6	-
E12	ES-7530-204	AS REQD.	ANCHOR HOOK 3" LONG	6063-T6	-
E13	ES-UN625-006	AS REQD.	FEMALE MULLION	6063-T6	-
E14	ES-UN625-009	AS REQD.	HOOK CLIP	6063-T5	-
E15	ES-UN625-505	AS REQD.	STARTER	6063-T6	-
E16	ES-7530-205	AS REQD.	FLOOR ANCHOR	6063-T6	-
E17	ES-7530-206	AS REQD.	FLOOR ANCHOR WASHER	6063-T6	-
E18	ES-7530-208	AS REQD.	CORNER HOOK BACK	6063-T5	-
E19	ES-7530-209	AS REQD.	CORNER HOOK FRONT	6063-T5	-
E20	ES-U3525-216	AS REQD.	SLAB ANCHOR WASHER	6005-T5	-
E21	ES-UN625-019	AS REQD.	OUTSIDE CORNER SPLICE	6005-T5	-
E21B	ES-UN625-020	AS REQD.	INSIDE CORNER SPLICE	6005-T5	-
E22	ES-UN625-007	AS REQD.	SSG MALE MUILLION	6063-T6	-
E23	ES-UN625-011	AS REQD.	SSG FRONT TRIM	6063-T5	-
E24	ES-UN625-013	AS REQD.	MALE OUTSIDE CORNER	6063-T6	-
E25	ES-UN625-014	AS REQD.	FEMALE OUTSIDE CORNER	6063-T6	-
E26	ES-UN625-015	AS REQD.	OUTSIDE CORNER TRIM	6063-T5	-
E27	ES-UN625-016	AS REQD.	MALE INSIDE CORNER	6063-T6	-
E28	ES-UN625-017	AS REQD.	FEMALE INSIDE CORNER	6063-T6	-
E29	ES-UN625-018	AS REQD.	INSIDE CORNER TRIM	6063-T5	-
E30	ES-W625-011	AS REQD.	SSG MULLION BACK	6063-T6	-
E31	ES-W625-014	AS REQD.	HEAD COVER	6063-T5	-
E32	ES-WC25-009	AS REQD.	INTERIOR GLASS STOP	6063-T6	-
E33	ES-W625-015	AS REQD.	HORIZONTAL FRONT/BACK	6063-T6	-
E34	ES-WC25-012	AS REQD.	SETTING CHAIR	6063-T6	-
M01	ES-3020	AS REQD.	BULB W'STRIPPING	EPDM	DUROMETER 75±5 SHORE A
M02	ES-UN625-G01	AS REQD.	EXPANSION JOINT GASKET	SILICONE	DUROMETER 70±5 SHORE A
M03	ES-W625-G03A	AS REQD.	EXTERIOR GASKET FOR CAPTURED VERT. MULLION	SILICONE	DUROMETER 65±5 SHORE A
M04	NS-25-G01	AS REQD.	INTERIOR GASKET	EPDM	DUROMETER 70±5 SHORE A
M05	ES-3525-G02A	AS REQD.	EXTERIOR WEDGE CAPTURED	SILICONE	DUROMETER 70±5 SHORE A
M06	ES-U3525-G08A	AS REQD.	INTERIOR SPACER SSG	SILICONE	DUROMETER 70±5 SHORE A
M07	ES-7530-G06	AS REQD.	TONGUE CAPTURED SSG	EPDM	DUROMETER 60±5 SHORE A
M08	ES-7530-G07	AS REQD.	COMPRESSION JOINT CAPTURED/SSG	EPDM	DUROMETER 60±5 SHORE A
M09	ES-WW1025T-B01	AS REQD.	SIDE BLOCK AT JAMB	SILICONE	DUROMETER 60±5 SHORE A
M10	ES-21-B04A	AS REQD.	SETTING BLOCK	SILICONE	DUROMETER 80±5 SHORE A
M11	ES-7530-B01A	AS REQD.	SETTING BLOCK AS SIDE BLOCK @ VERT. MULLION	SILICONE	DUROMETER 80±5 SHORE A
M12	NP-200-B02	AS REQD.	SETTING BLOCK	SILICONE	DUROMETER 80±5 SHORE A
M13	ES-7530-G11	AS REQD.	WATER DEFLECTOR	EPDM	DUROMETER 60±5 SHORE A
M14	ES-7530-G05	AS REQD.	WATER DEFLECTOR AT VERT. JOINT CAPTURED	EPDM	-
M15	ES-7530-F01	AS REQD.	CLOSED CELL FOAM AT STACK	FOAM	1" X 1" X 5"
M16	ES-W625-F03	AS REQD.	END DAM FOAM AT VERTICAL	FOAM	-
M17	ES-WW1025T-F03	AS REQD.	CLOSED CELL FOAM BLOCK AT TOP JAMB	FOAM	1/2" X 1/2" X 2"
M18	ES-W625-F02	AS REQD.	CLOSED CELL FOAM BLOCK AT VERT. END CAP	FOAM	-
M19	ES-WW1025T-F03	AS REQD.	RETICULATED FOAM 30PPI	FOAM	1/2" X 1/2" X 2"
M20	ES-7530-F04	AS REQD.	CLOSED CELL FOAM SILL STACK BLOCK	FOAM	3/4" X 1" X 3"
M21	123 SEAL	AS REQD.	SILICONE SPLICE	SILICONE	-
M22	ES-WW1025T-301	AS REQD.	THERMAL ISOLATOR	RIGID PVC	-
M23	ES-W625-N01	AS REQD.	1/4" DIA. NYLON ROD, 1" LONG @ 12"	NYLON 6	-
M24	2206	AS REQD.	INSULBAR 24MM OFFSET	POLYAMIDE	ENSINGER
M25	2523	AS REQD.	INSULBAR 31.9MM OFFSET	POLYAMIDE	ENSINGER
M26	-	AS REQD.	3/8" DIA. BACKER ROD @ VERT. MULLION SSG	FOAM	CLOSED CELL POLYETHYLENE
M27	-	AS REQD.	5/8" DIA. BACKER ROD @ VERT. MULLION SSG	FOAM	CLOSED CELL POLYETHYLENE

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
M28	ES-UN625-PLI	AS REQD.	END PLATE	ALUMINUM	4" X 4" X 1/8"
M30	#12 X 1-1/2"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	HWH SMS
M31	#12 X 1"	AS REQD.	CHICKEN HEAD FASTENERS AT OUTSIDE CORNERS	ST. STEEL	PH SMS
M32	#10-24 X 3/4"	AS REQD.	SIDE TRIM SCREWS	ST. STEEL	FH SMS
M32B	#8 X 1/2"	AS REQD.	END DAM TO SILL ATTACHMENT	ST. STEEL	FH SMS
M33	3/8-16 X 1-1/2"	AS REQD.	AT MULLION ANCHOR	ST. STEEL	HH MS
M33B	#8 X 3/4"	AS REQD.	END DAM TO SILL ATTACHMENT	ST. STEEL	FH SMS
M34	3/8-16 X 1"	AS REQD.	AT MULLION ANCHOR	ST. STEEL	HH MS
M35	3/8-16 X 3"	AS REQD.	ANCHOR LEVELING SCREW	ST. STEEL	HH MS
M36	ES-U3725-ST1	AS REQD.	FORMED STEEL AT CORNER	GALV. STEEL	-
M37	-	AS REQD.	3/8-16 HEX NUT	ST. STEEL	-

Sealed: 10/15/2026

FL #21066

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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\W16-10ESW

SERIES ES-UN625 ALUM. CURTAIN WALL SYS. (N.I.)

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

revisions:

no	date	by	description

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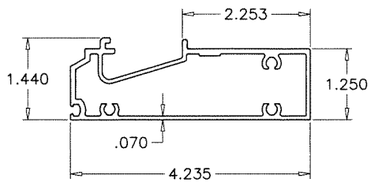
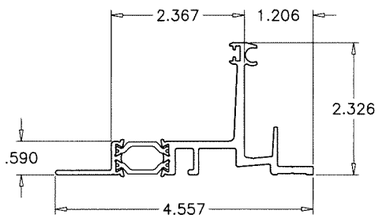
dr. by: TARIQ
chk. by:

drawing no. W16-10



E01 HEAD CLOSED



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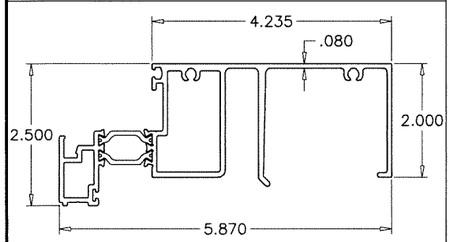

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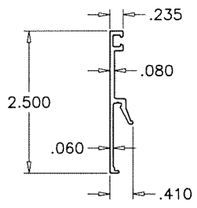

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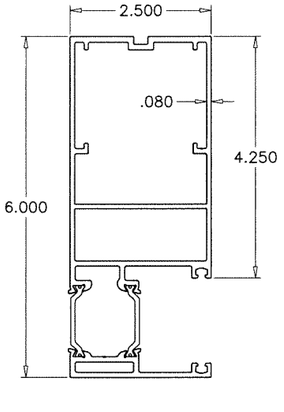
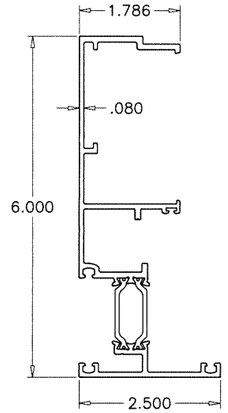
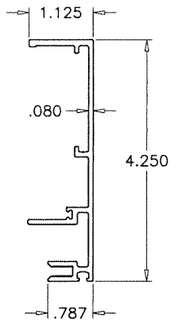


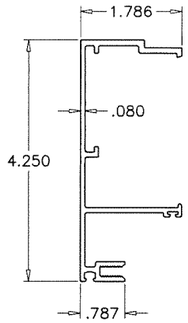
E06 FRAME JAMB



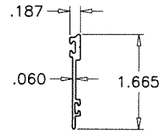
E07 MALE MULLION



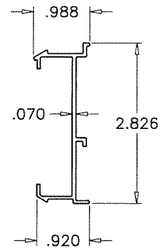
E13 FEMALE MULLION



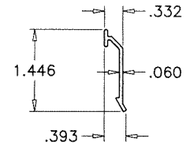
E22 SSG MALE MULLION



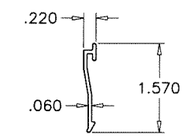
E23 SSG FRONT TRIM



E14 HOOK CLIP



E18 CORNER HOOK BACK



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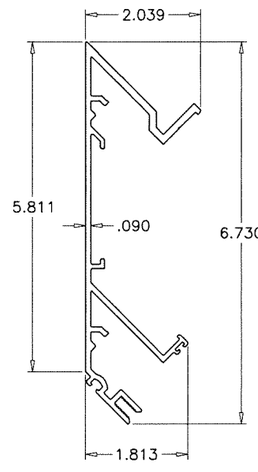
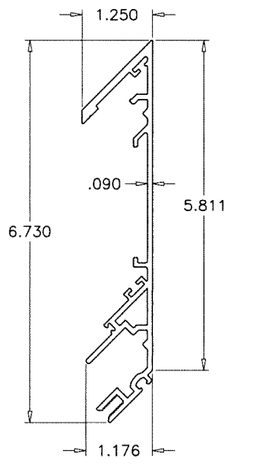


E24 MALE OUTSIDE CORNER



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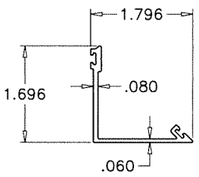

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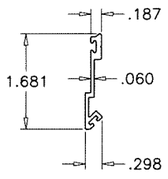
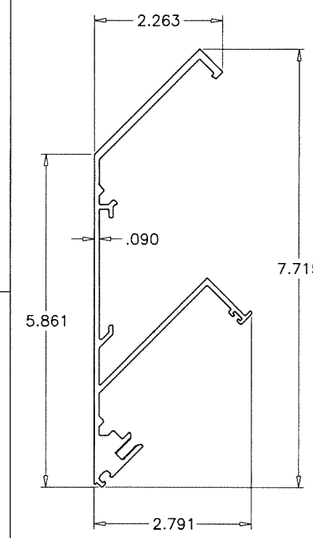
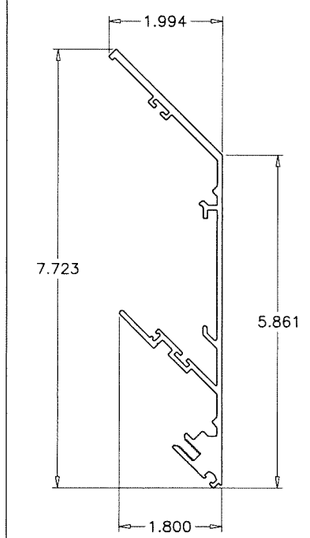


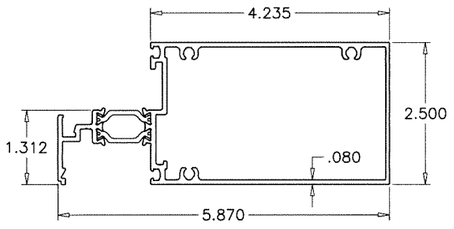
E29 INSIDE CORNER TRIM



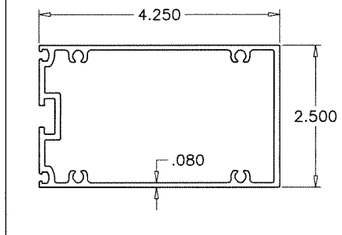
E27 MALE INSIDE CORNER



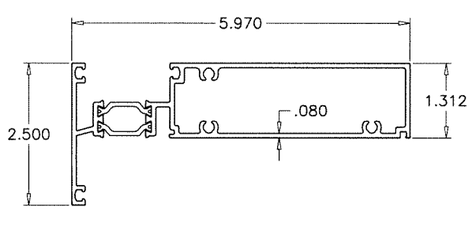
E28 FEMALE INSIDE CORNER



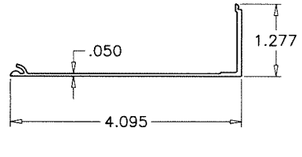
E03 HORIZONTAL



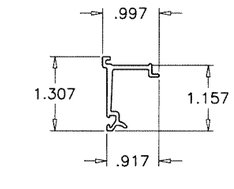
E30 SSG HORIZONTAL



E33 HORIZONTAL

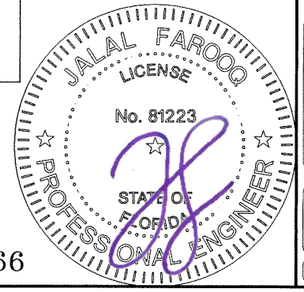


E31 HEAD COVER



E32 INTERIOR GLASS STOP

Sealed: 10/15/2026



FL #21066

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\W16-10ESW

SERIES ES-UN625 ALUM. CURTAIN WALL SYS. (N.I.)

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

revisions:

no	date	by	description

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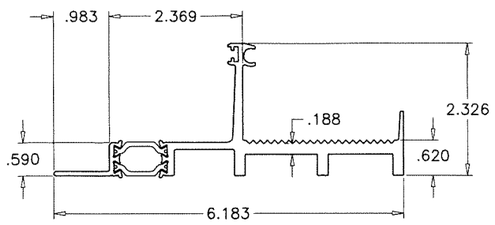
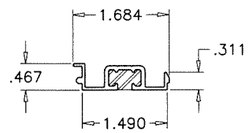
chk. by:

drawing no. W16-10

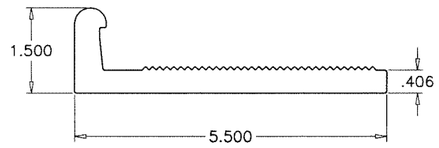
sheet 16 of 17



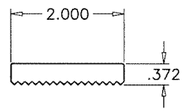
E15 STARTER



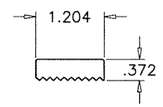
E09 POCKET FILLER



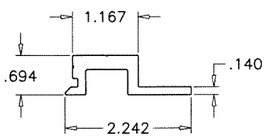
E16 FLOOR ANCHOR



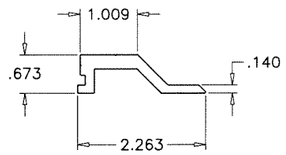
E17 FLOOR ANCHOR WASHER



E20 SLAB ANCHOR WASHER



E21 OUTSIDE CORNER SPLICE



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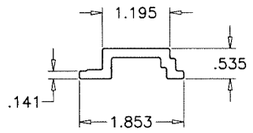

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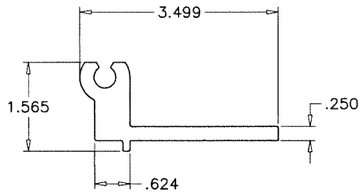

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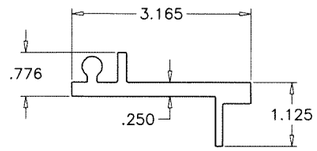

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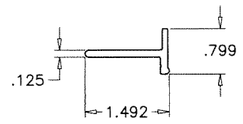
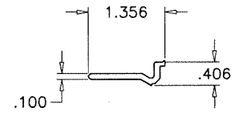


E08 SETTING CHAIR



E34 SETTING CHAIR

Sealed: 10/15/2026

FL #21066

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SERIES ES-UN625 ALUM. CURTAIN WALL SYS. (N.I.)

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revisions:

no	date	by	description

date: 02-10-16
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. W16-10

sheet 17 of 17