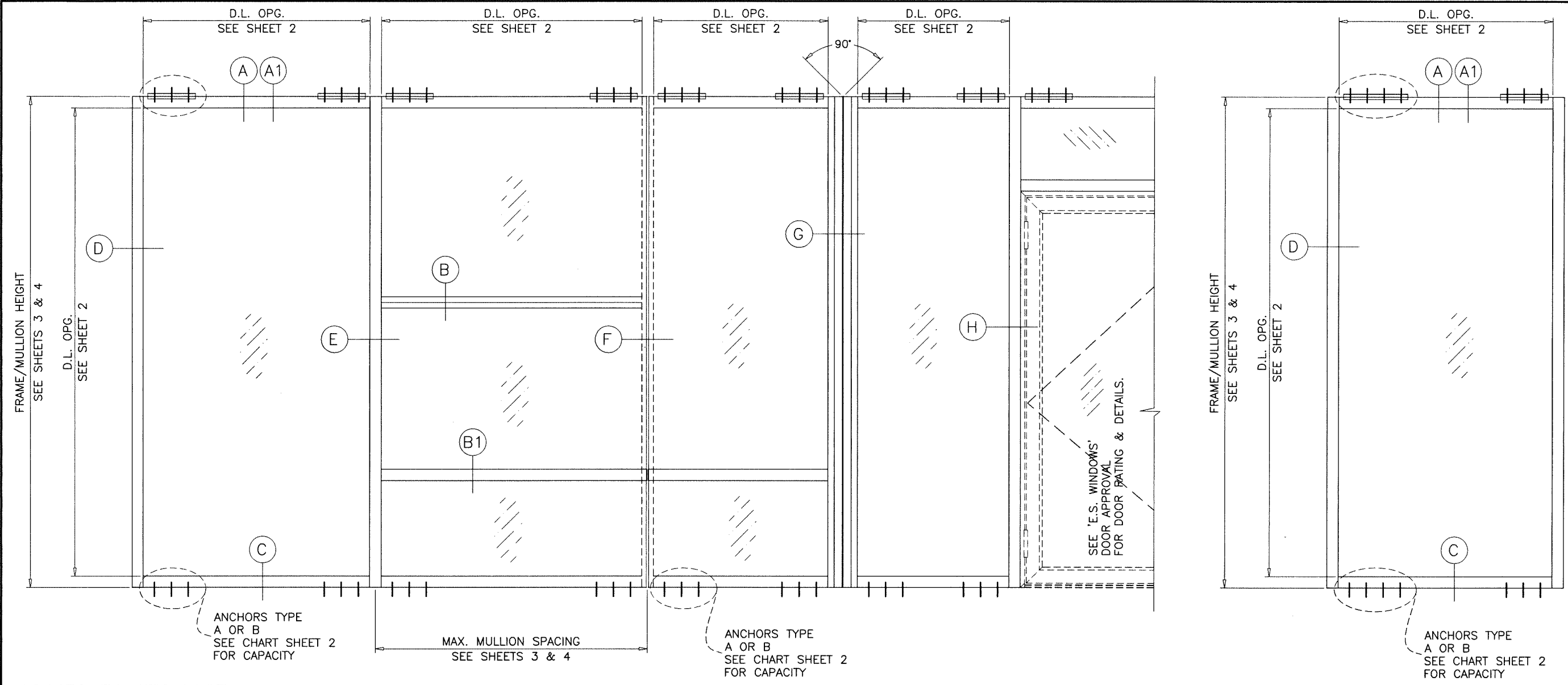




SERIES ES-WW1025T
THERMALLY BROKEN WINDOW WALL SYSTEM

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.

TYPICAL ELEVATIONS

- 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 2 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3 & 4 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEET 2 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 6** FOR SYSTEMS WITH UNANCHORED JAMBS, USING SHEET 7, 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.

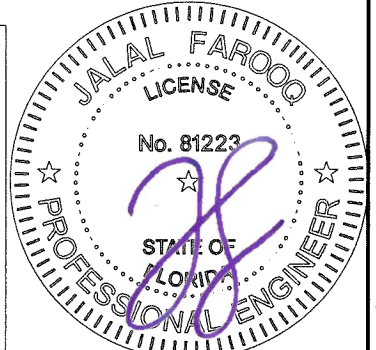
Sealed: 10/15/2026 FL #20702

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\W15-104ESW

ES-WW1025T THERMALLY BROKEN WINDOW WALL SYS. (N.I.)

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

no	date	by	description
A	02.01.18		UPDATED TO 2017 FBC
B	12.07.20		UPDATED TO 2020 FBC
C	09.29.23		UPDATED TO 2023 FBC
D	10.14.26		UPDATED TO 2026 FBC

date: 12-01-15

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

dr. by: TARIQ

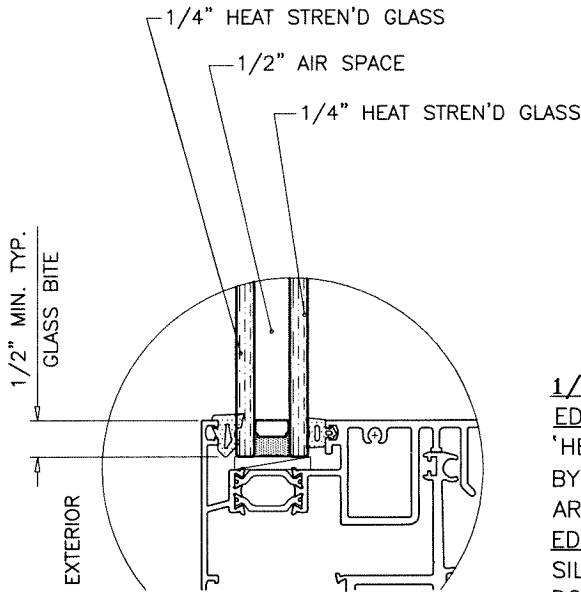
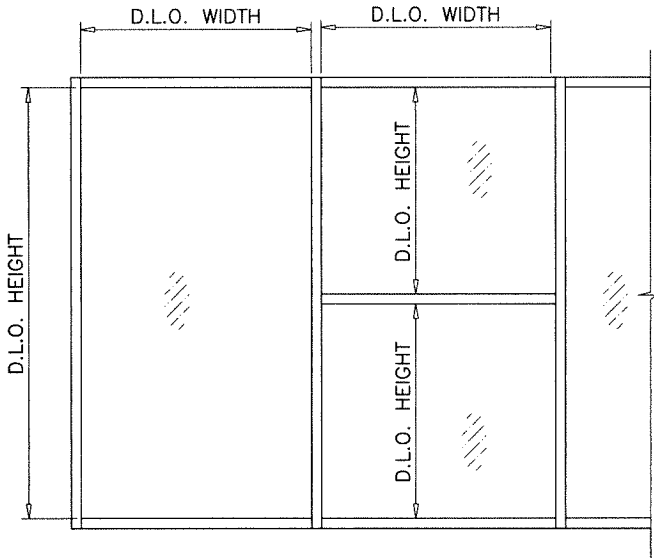
chk. by:

drawing no.

W15-104

sheet 1 of 11

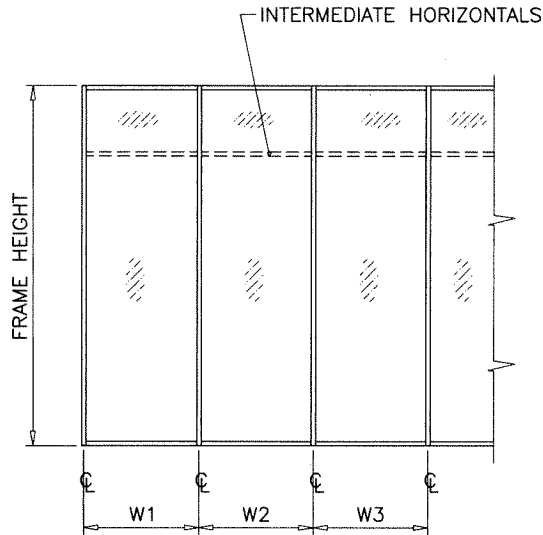
GLASS DESIGN LOAD CAPACITY - PSF		
NOMINAL DIMS.		1" OVERALL INSUL. GLASS
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
27-1/2"	93-1/2"	75.0
33-1/2"		75.0
39-1/2"		75.0
45-1/2"		75.0
51-1/2"		75.0
57-1/2"		75.0



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.

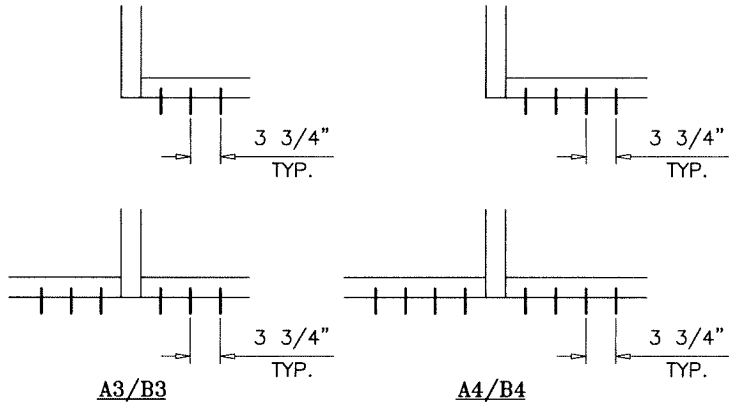
ANCHORS LOAD CAPACITY - PSF EXT.(+) & INT.(-)			
NOMINAL DIMS.		ANCHOR TYPES	
WIDTH (W)	FRAME HEIGHT	A3/B3	A4/B4
30"	96"	75.0	-
36"		75.0	-
42"		75.0	-
48"		75.0	-
54"		75.0	-
60"		75.0	-
30"	108"	75.0	-
36"		75.0	-
42"		75.0	-
48"		75.0	-
54"		75.0	-
60"		75.0	-
30"	120"	75.0	-
36"		75.0	-
42"		75.0	-
48"		75.0	-
54"		75.0	-
60"		75.0	-
30"	144"	75.0	-
36"		75.0	-
42"		75.0	-
48"		75.0	-
54"		50.0	75.0
60"		50.0	75.0
30"	162-1/4"	75.0	-
36"		75.0	-
42"		75.0	-
48"		50.0	75.0
54"		50.0	75.0
60"		50.0	75.0

NOTE:
 INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



WIDTH (W) = W1
 AT JAMB

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



ANCHORS TYPES: SEE SHEET 5 FOR DESCRIPTION
 A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
 A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
 B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
 B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION

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

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FL #20702



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revisions:	no	date	by	description

date: 12-01-15

scale: -

dr. by: TARIQ

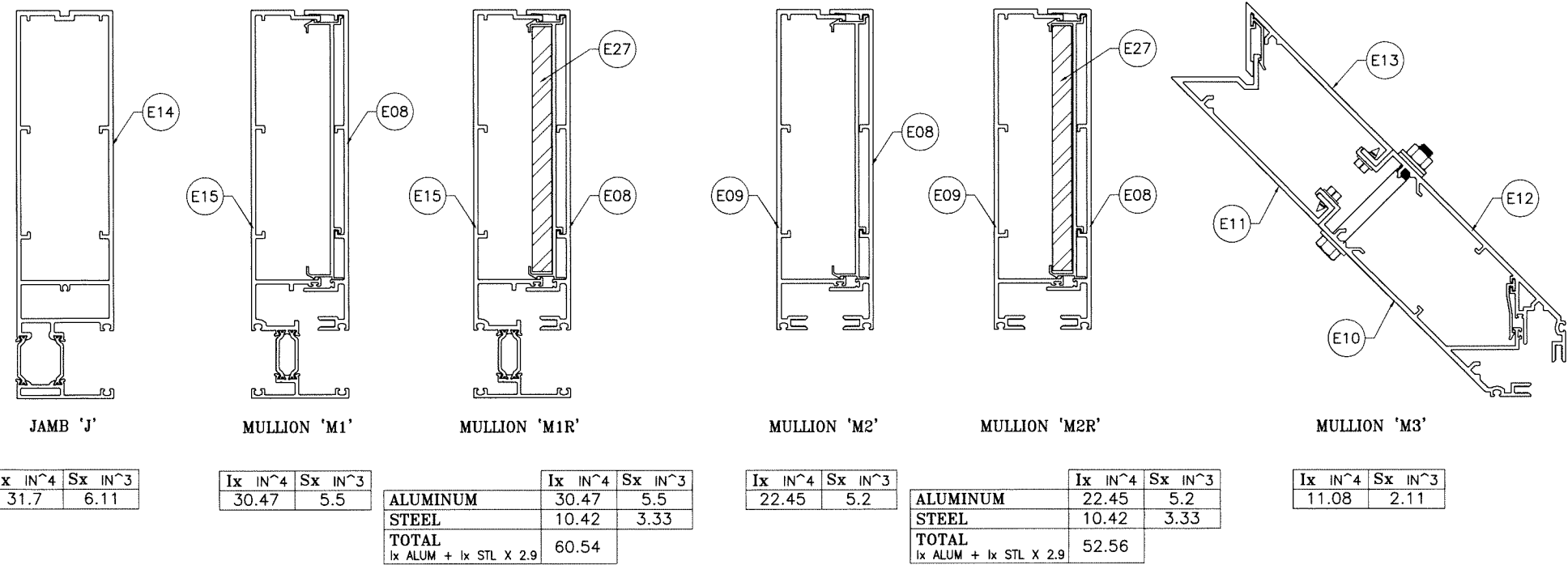
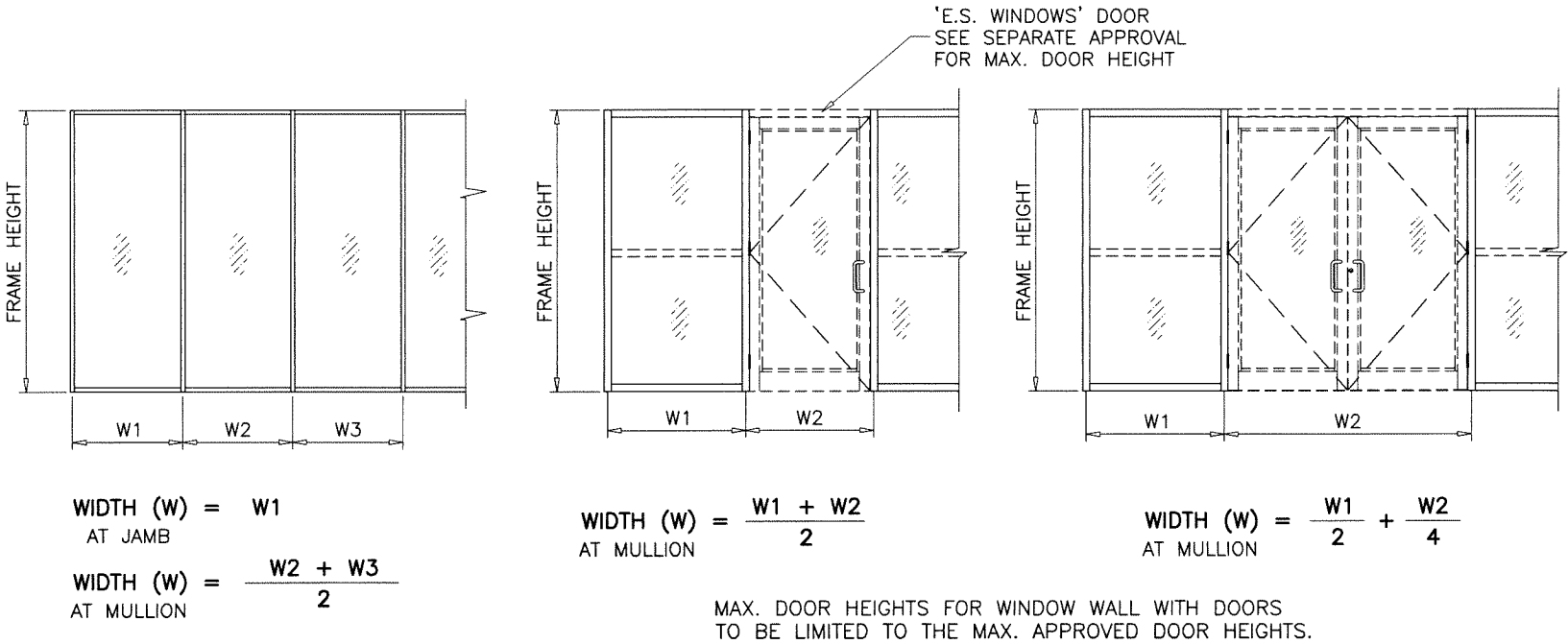
chk. by:

drawing no.
W15-104

sheet 2 of 11

MULLION DESIGN LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J' MULL 'M1'		JAMB 'J' MULL 'M1R'		JAMB 'J' MULL 'M2'		JAMB 'J' MULL 'M2R'		JAMB 'J' MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	72"	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
36"		50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
42"		50.0	50.0	75.0	75.0	71.3	71.3	71.3	71.3	50.0	50.0
48"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
54"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
60"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
30"	84"	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
36"		50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
42"		50.0	50.0	75.0	75.0	71.3	71.3	71.3	71.3	50.0	50.0
48"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
54"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
60"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
30"	96"	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
36"		50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
42"		50.0	50.0	75.0	75.0	71.3	71.3	71.3	71.3	50.0	50.0
48"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
54"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
60"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0

NOTE:
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



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revisions:

no	date	by	description

date: 12-01-15

scale: -

dr. by: TARIQ

chk. by:

drawing no.

W15-104

sheet 3 of 11

MULLION DESIGN LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS											
NOMINAL DIMS.		JAMB 'J' MULL 'M1'		JAMB 'J' MULL 'M1R'		JAMB 'J' MULL 'M2'		JAMB 'J' MULL 'M2R'		JAMB 'J' MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30"	96"	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
36"		50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
42"		50.0	50.0	75.0	75.0	71.3	71.3	71.3	71.3	50.0	50.0
48"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
54"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
60"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
30"	108"	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
36"		50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
42"		50.0	50.0	75.0	75.0	71.3	71.3	71.3	71.3	50.0	50.0
48"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
54"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
60"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
30"	120"	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
36"		50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
42"		50.0	50.0	75.0	75.0	71.3	71.3	71.3	71.3	50.0	50.0
48"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
54"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
60"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
30"	144"	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
36"		50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
42"		50.0	50.0	75.0	75.0	71.3	71.3	71.3	71.3	50.0	50.0
48"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
54"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
60"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
30"	162-1/4"	50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
36"		50.0	50.0	75.0	75.0	75.0	75.0	75.0	75.0	50.0	50.0
42"		50.0	50.0	75.0	75.0	67.2	67.2	71.3	71.3	50.0	50.0
48"		50.0	50.0	75.0	75.0	-	-	-	-	50.0	50.0
54"		50.0	50.0	75.0	75.0	-	-	-	-	49.6	49.6
60"		45.4	45.4	75.0	75.0	-	-	-	-	-	-

NOTE:
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

Ix IN^4	Sx IN^3
31.7	6.11

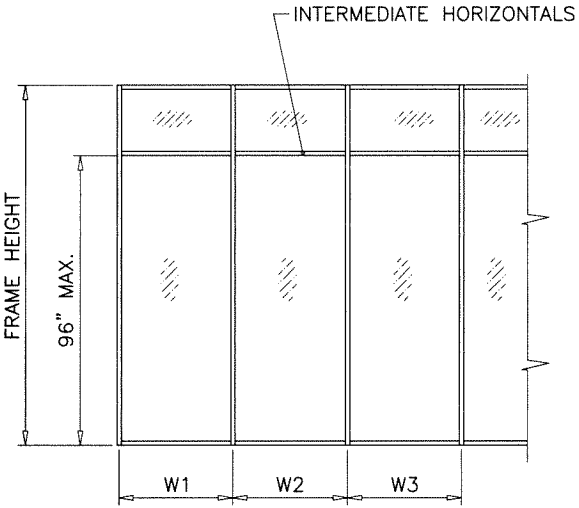
Ix IN^4	Sx IN^3
30.47	5.5

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	10.42	3.33
TOTAL	60.54	
Ix ALUM + Ix STL X 2.9		

Ix IN^4	Sx IN^3
22.45	5.2

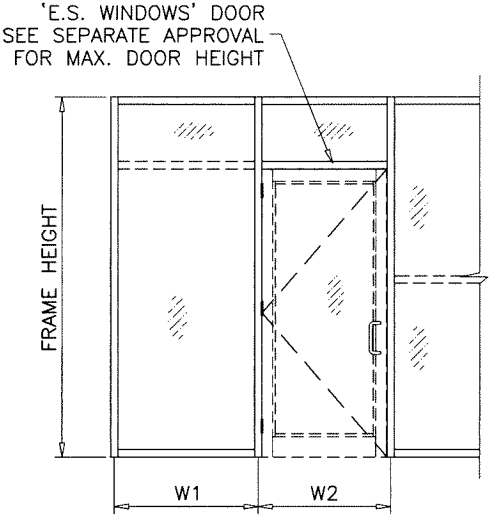
ALUMINUM	Ix IN^4	Sx IN^3
STEEL	10.42	3.33
TOTAL	52.56	
Ix ALUM + Ix STL X 2.9		

Ix IN^4	Sx IN^3
11.08	2.11



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.

Sealed: 10/15/2026

FL #20702



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ES-WW1025T THEMALLY BROKEN WINDOW WALL SYS. (N.I.)

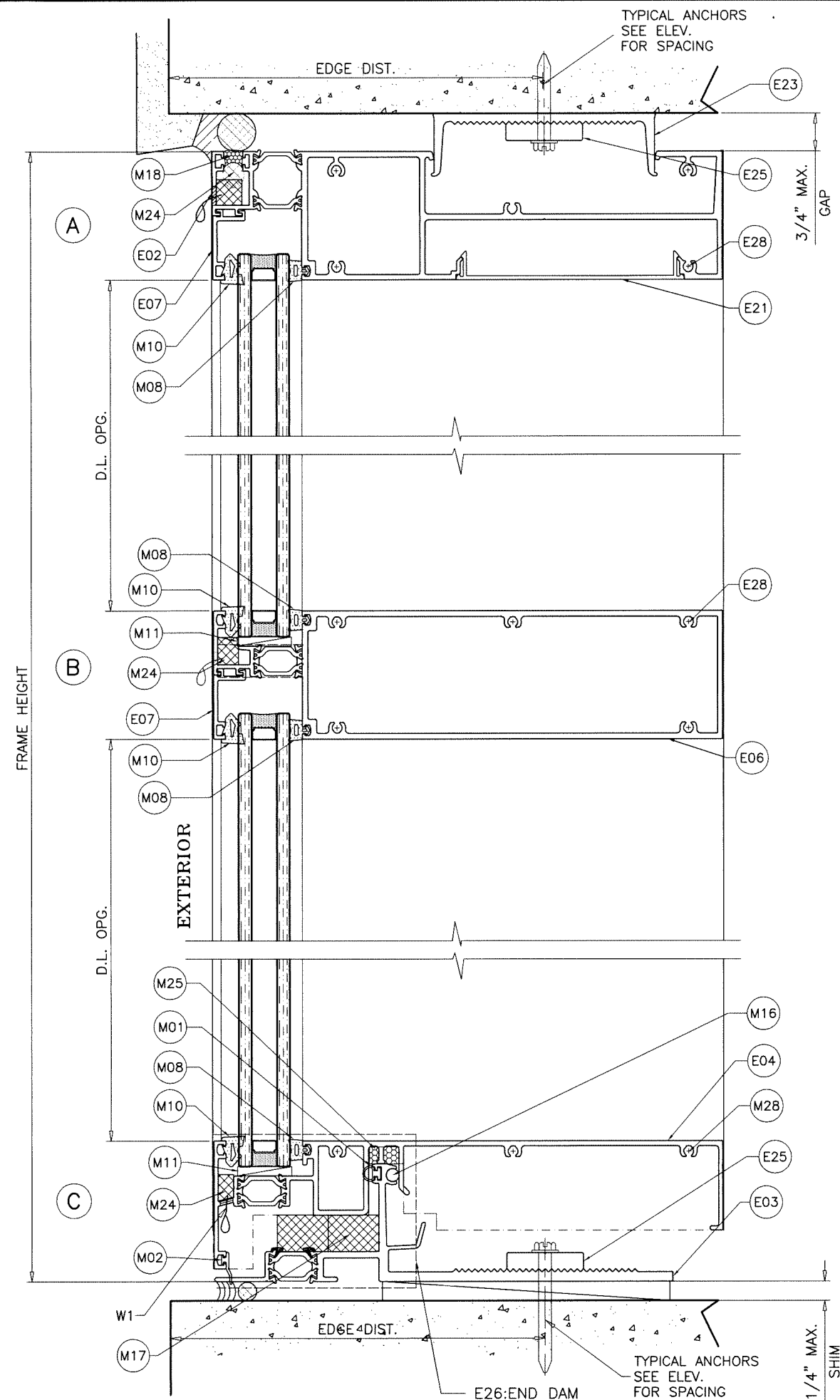
E.S. WINDOWS, LLC
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revisions:	no	date	by	description

date:	12-01-15
scale:	-
dr. by:	TARIQ
chk. by:	

drawing no.	W15-104
sheet	4 of 11

COMP-ANL\W15-104ESW



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' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE
3-3/4" O.C. MIN.

ANCHOR EDGE DISTANCES
INTO CONCRETE = 3-1/8" MIN.

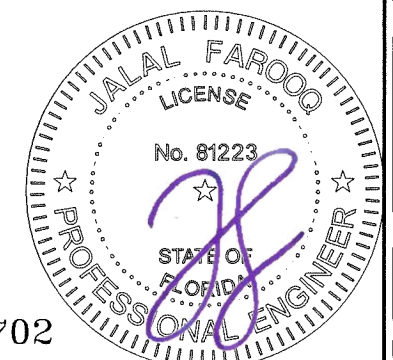
TYPE 'B'
5/16" DIA. DRIL-FLEX SELF DRILLING SCREWS BY 'DEWALT' (GRADE 5 CRS)
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
INTO METAL STRUCTURE = 1" MIN.

WEEPHOLES:

W1 = (2) 5/16" DIA. WEEP HOLES AT 1/3 POINTS

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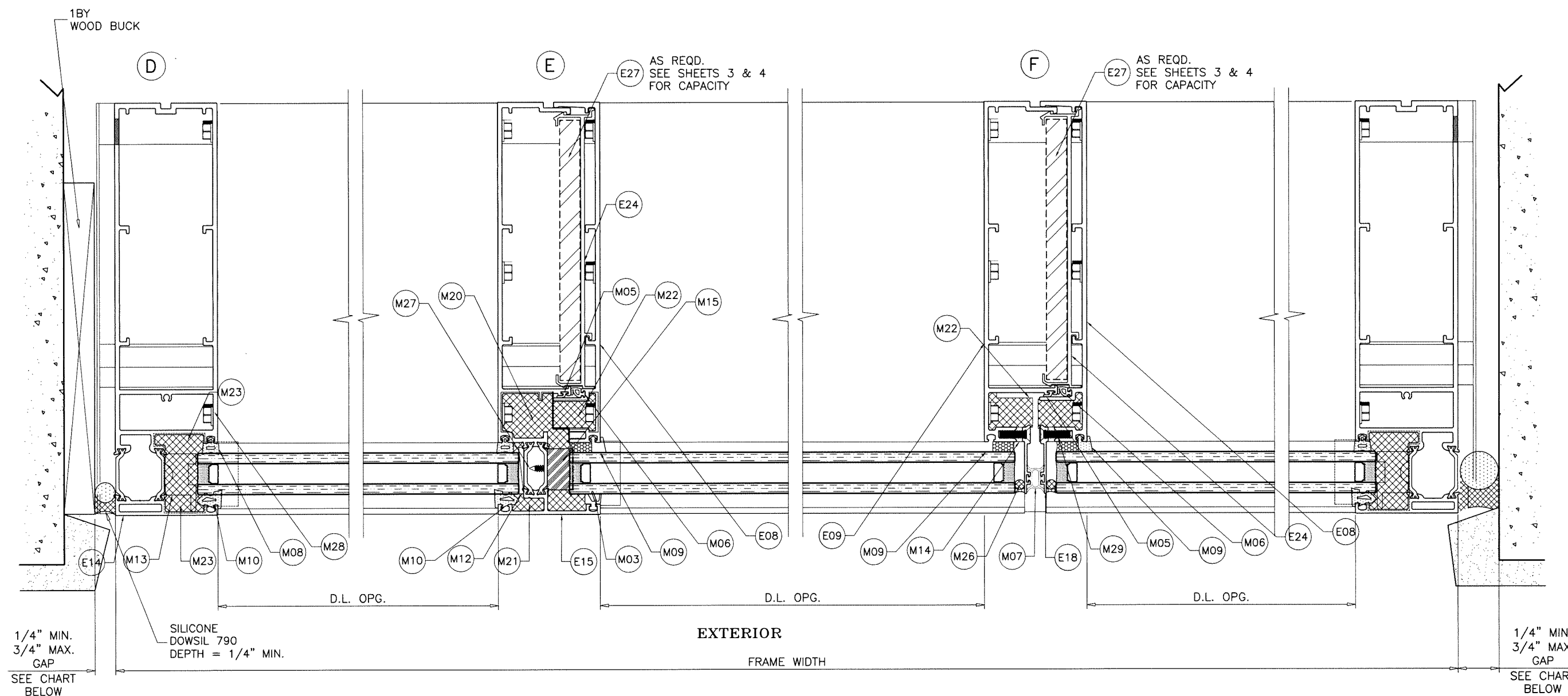
Revisions:	
no	date by description

date: 12-01-15	scale: 3/8" = 1"	dr. by: TARIQ	chk. by:
drawing no. W15-104			
sheet 5 of 11			

COMP-ANL\W15-104ESW

revisions:	no	date	by	description

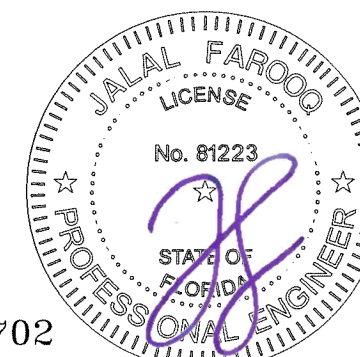
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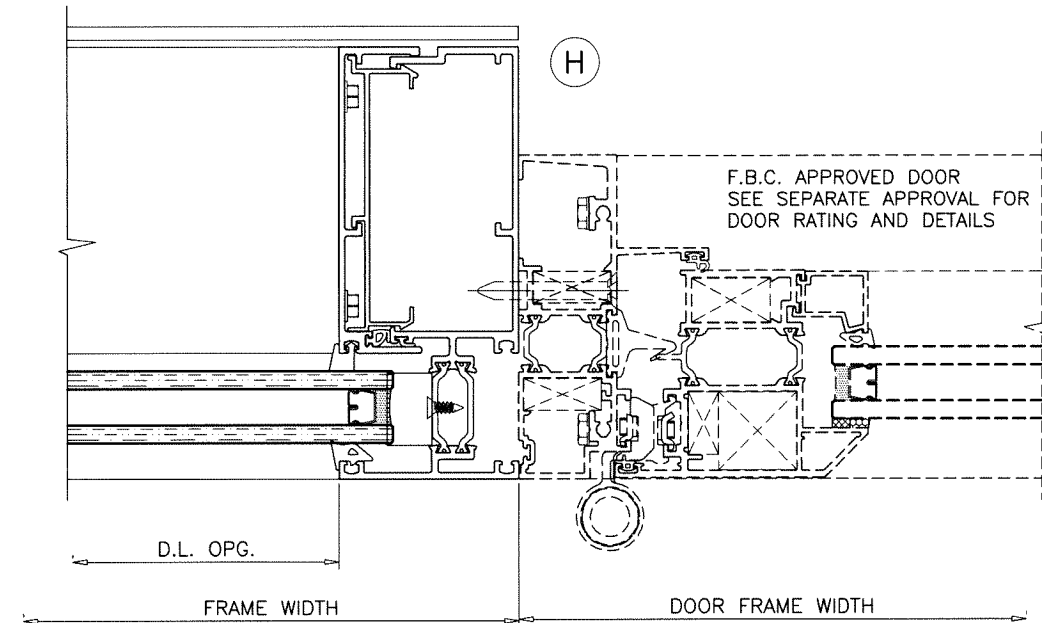
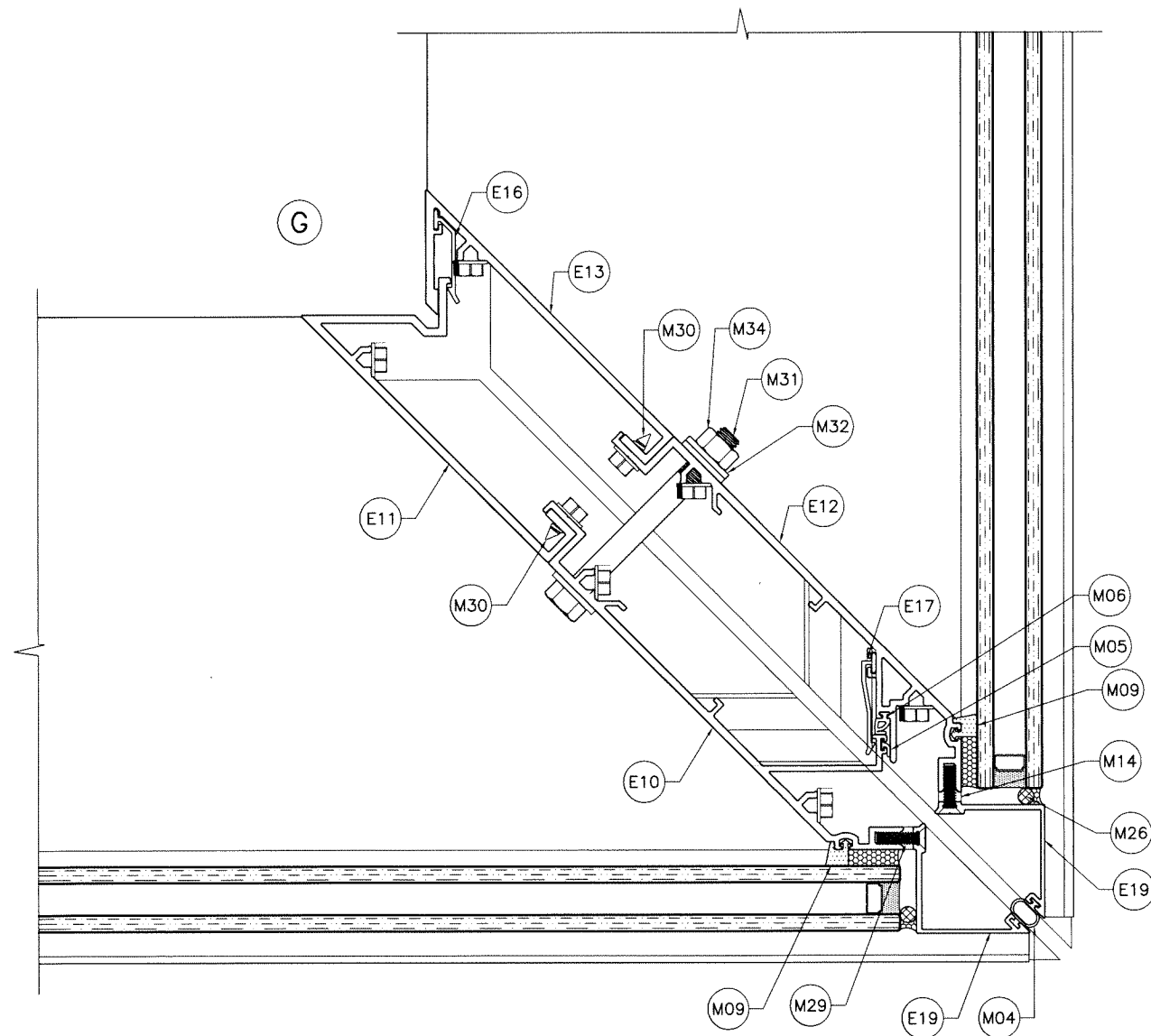
MAX. FRAME HEIGHT	GAPS FOR UNANCHORED JAMBS	
	MIN.	MAX.
96"	1/4"	3/4"
120"	1/4"	3/4"
144"	1/4"	3/4"
162-1/4"	3/8"	3/4"

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.

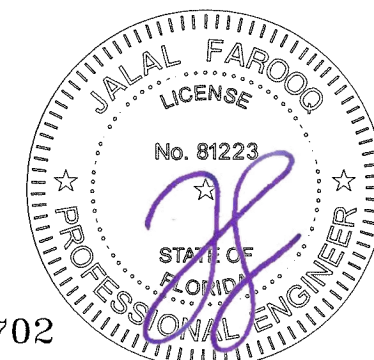
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FL #20702



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AL-FAROOQ CORPORATION
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COMP-ANL\W15-104ESW

ES-WW1025T THEMALLY BROKEN WINDOWALL SYS. (N.I.)

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ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E01	ES-WW1025T-501	AS REQD.	HEAD INSIDE REGLAZE	6063-T6	-
E02	ES-WW1025T-507	AS REQD.	HEAD OUTSIDE REGLAZE	6063-T6	-
E03	ES-WW1025T-506	AS REQD.	STARTER	6063-T6	-
E04	ES-WW1025T-503	AS REQD.	FRAME SILL	6063-T6	-
E05	ES-WW1025T-502	AS REQD.	HORIZONTAL INSIDE REGLAZE	6063-T6	-
E06	ES-WW1025T-508	AS REQD.	HORIZONTAL OUTSIDE REGLAZE	6063-T6	-
E07	ES-WW1025T-408	AS REQD.	HORIZONTAL GLASS STOP	6063-T6	-
E08	ES-WW1025T-006	AS REQD.	FEMALE MULLION SSG	6063-T6	-
E09	ES-WW1025T-007	AS REQD.	MALE MULLION SSG	6063-T6	-
E10	ES-WW1025T-009	AS REQD.	CORNER MALE MULLION FRONT	6063-T6	-
E11	ES-WW1025T-010	AS REQD.	CORNER MALE MULLION BACK	6063-T6	-
E12	ES-WW1025T-011	AS REQD.	CORNER FEMALE MULLION FRONT	6063-T6	-
E13	ES-WW1025T-012	AS REQD.	CORNER FEMALE MULLION BACK	6063-T6	-
E14	ES-WW1025T-505	AS REQD.	FRAME JAMB	6063-T6	-
E15	ES-WW1025T-504	AS REQD.	MALE MULLION	6063-T6	-
E16	ES-7530-208	AS REQD.	CORNER HOOK BACK	6063-T5	-
E17	ES-7530-209	AS REQD.	CORNER HOOK FRONT	6063-T5	-
E18	ES-UN625-011	AS REQD.	SSG FRONT TRIM	6063-T5	-
E19	ES-UN625-015	AS REQD.	OUTSIDE CORNER TRIM	6063-T5	-
E20	ES-WC25-009	AS REQD.	INTERIOR GLASS STOP	6063-T6	-
E21	ES-WW1025T-002	AS REQD.	HEAD COVER	6063-T5	-
E22	ES-WW1025T-052	AS REQD.	HORIZONTAL COVER	6063-T5	-
E23	ES-WW1025T-201	AS REQD.	HEAD ANCHOR	6005-T5	-
E24	ES-WW1025T-202	AS REQD.	HOOK CLIP	6063-T5	-
E25	ES-U3525-216	AS REQD.	ANCHOR WASHER	6005-T5	-
E26	ES-CF-001	AS REQD.	END DAM (4" WIDTH X 3" HEIGHT)	6005-T5	-
E27	-	AS REQD.	MULLION REINF. BAR (LENGTH = FRAME HEIGHT - 6")	STEEL	A36, Fu MIN. = 58 KSI
M01	ES-W625-G01A	AS REQD.	AIR SEAL AT STACK CAPTURED/SSG	EPDM	DUROMETER 65±5 SHORE A
M02	ES-W625-G02A	AS REQD.	WATER RETAINER FOR OUTSIDE REGLAZE	SILICONE	DUROMETER 65±5 SHORE A
M03	ES-W625-G03A	AS REQD.	EXTERIOR GASKET CAPTURED VERTICAL MULLION	SILICONE	DUROMETER 65±5 SHORE A
M04	ES-7530-G05A	AS REQD.	WATER DEFLECTOR AT VERTICAL JOINT	SILICONE	DUROMETER 60±5 SHORE A
M05	ES-7530-G06	AS REQD.	TONGUE CAPTURED/SSG	EPDM	DUROMETER 60±5 SHORE A
M06	ES-7530-G07	AS REQD.	COMPRESSION JOINT CAPTURED/SSG	EPDM	DUROMETER 60±5 SHORE A
M07	ES-7530-G11A	AS REQD.	WATER DEFLECTOR AT VERTICAL JOINT SSG	SILICONE	DUROMETER 60±5 SHORE A
M08	NS-25-G01A	AS REQD.	INTERIOR GASKET	SILICONE	DUROMETER 70±5 SHORE A
M09	ES-U3525-G08A	AS REQD.	INTERIOR SPACER SSG	SILICONE	DUROMETER 70±5 SHORE A
M10	27-427	AS REQD.	PACKING WEDGE	EPDM	DUROMETER 70±5 SHORE A
M11	NP-200-B02A	AS REQD.	SETTING BLOCK	SILICONE	DUROMETER 80±5 SHORE A
M12	ES-7530-B01A	AS REQD.	SIDE BLOCK AT VERTICAL MULLION	SILICONE	DUROMETER 80±5 SHORE A
M13	ES-WW1025T-B01	AS REQD.	SIDE BLOCK AT JAMB	SILICONE	DUROMETER 60±5 SHORE A
M14	ES-WW1025T-301	AS REQD.	THERMAL ISOLATOR	RIGID PVC	-
M15	ES-W625-302	AS REQD.	END DAM HOLDER AT HEAD	RIGID PVC	-
M16	ES-W625-N01	AS REQD.	1/4" DIA. X 1" ROD	NYLON 6	-
M17	ES-7530-F01	AS REQD.	1" X 1" X 5" CLOSED CELL FOAM AT STACK	-	-
M18	-	AS REQD.	1/2" DIA. BACKER ROD AT VERTICAL SSG MULLION	FOAM	CLOSED CELL POLYETHYLENE
M19	-	AS REQD.	1" X 1" X 5" CLOSED CELL FOAM AT STACK	SILICONE	-
M20	ES-WW1025T-F01	AS REQD.	FOAM BLOCK AT TOP OF MALE MULLION	FOAM	CLOSED CELL
M21	ES-W625-F02	AS REQD.	FOAM BLOCK AT VERTICAL END CAP	FOAM	CLOSED CELL
M22	ES-WW1025T-F02	AS REQD.	FOAM BLOCK AT TOP OF FEMALE MULLION	FOAM	CLOSED CELL
M23	ES-WW1025T-F03	AS REQD.	FOAM BLOCK AT TOP JAMB	FOAM	CLOSED CELL
M24	ES-WW1025T-F04	AS REQD.	1/2" X 1/2" X 2" RETICULATED FOAM 30PPI	-	OPEN CELL
M25	ES-WW1025T-F05	AS REQD.	1/2" X 3/4" X 5" FOAM BLOCK	-	CLOSED CELL
M26	-	AS REQD.	3/8" DIA. BACKER ROD AT SSG MULLION	FOAM	CLOSED CELL POLYETHYLENE
M27	#8 X 1/2"	AS REQD.	FOR END DAM HOLDER	ST. STEEL	PH SMS
M28	#12 X 1-1/2"	AS REQD.	ASSEMBLY FASTENERS	ST. STEEL	HWH SMS
M29	#10-24 X 3/4"	AS REQD.	SIDE TRIM ASSEMBLY FASTENERS	ST. STEEL	FH SMS
M30	#12 X 1/2"	AS REQD.	ASSEMBLY FASTENERS SSG OUTSIDE CORNER	ST. STEEL	HWH SMS
M31	3/8" X 3-1/2"	AS REQD.	CORNER ASSEMBLY FASTENER	ST. STEEL	HH BOLT
M32	-	AS REQD.	3/8" X 1/16" WASHER FOR CORNER ASSEMBLY FASTENER	ST. STEEL	-
M33	-	AS REQD.	3/8" X 1/16" LOCK WASHER FOR ASSEMBLY FASTENER	ST. STEEL	-
M34	-	AS REQD.	3/8" NUT FOR ASSEMBLY FASTENER	ST. STEEL	-

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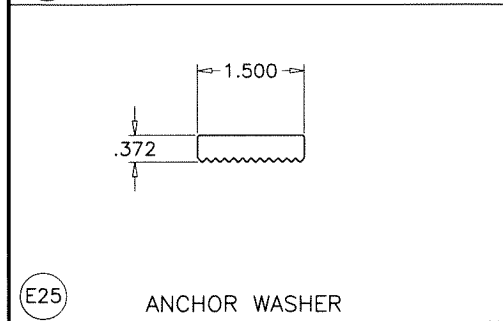
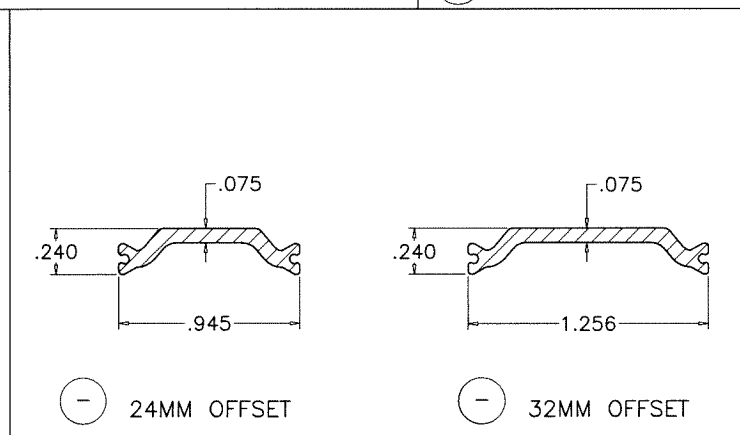
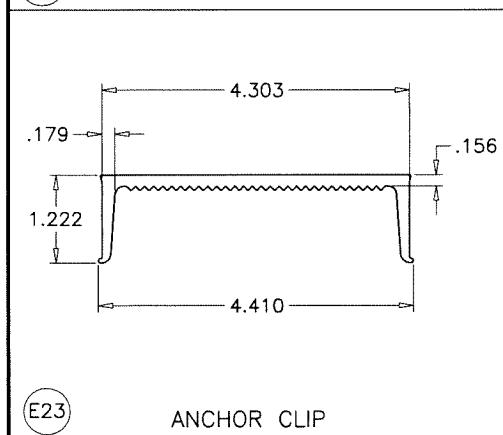
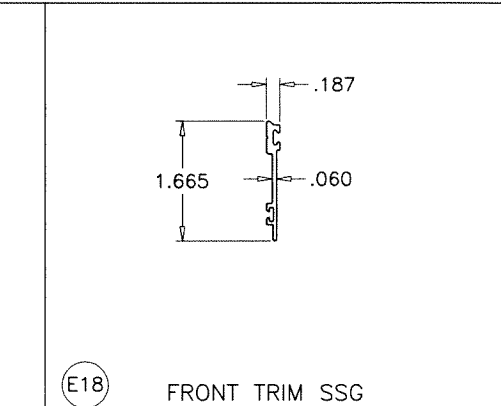
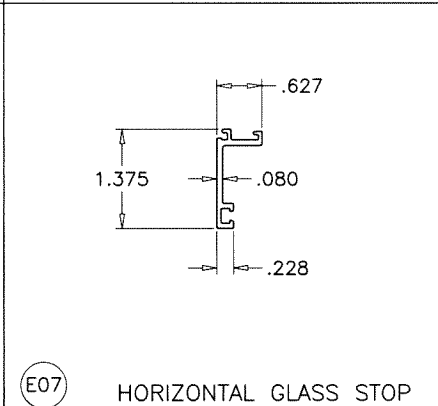
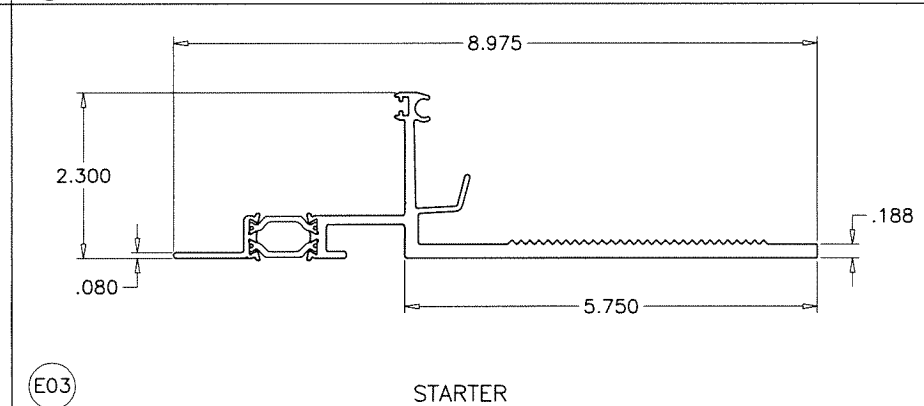
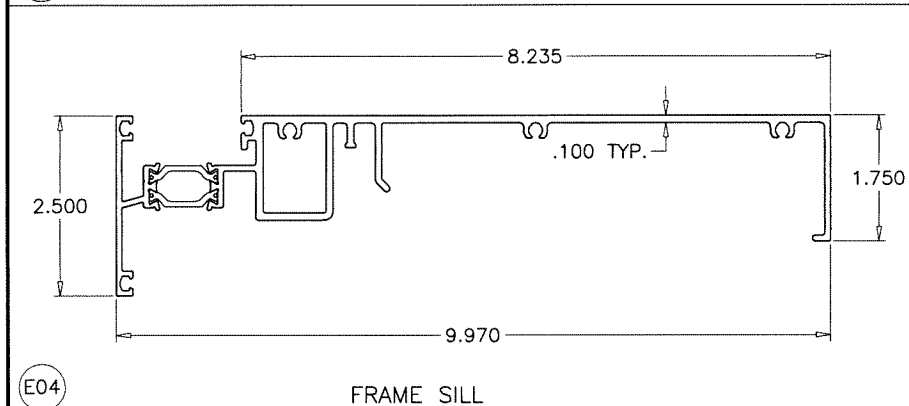
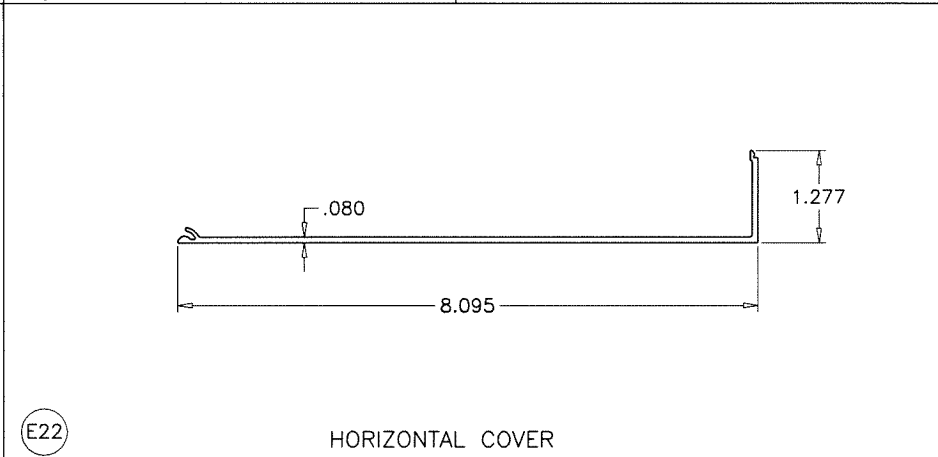
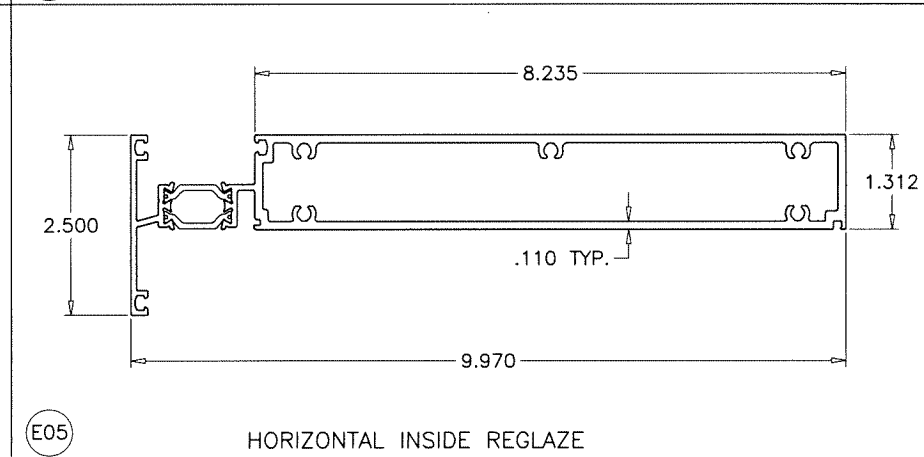
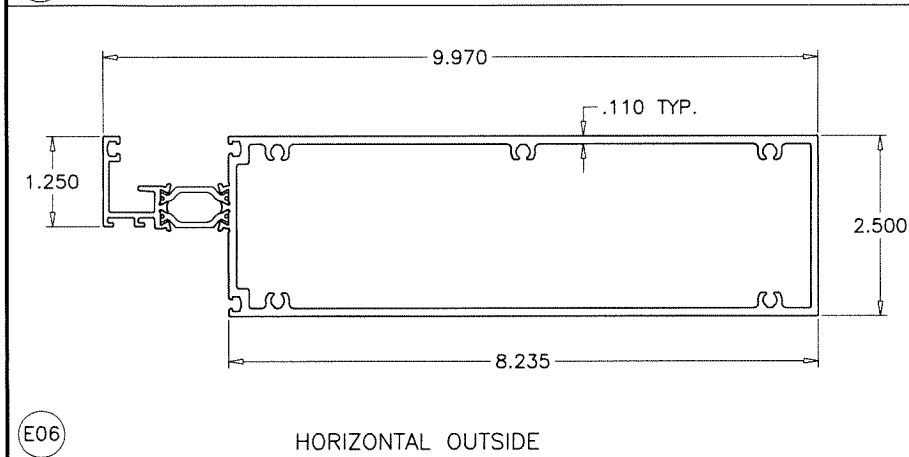
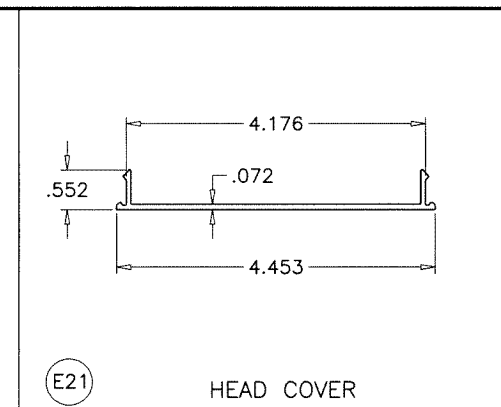
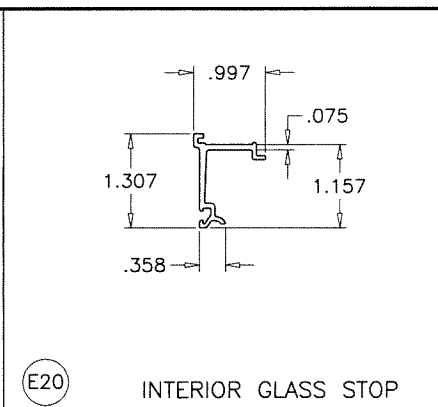
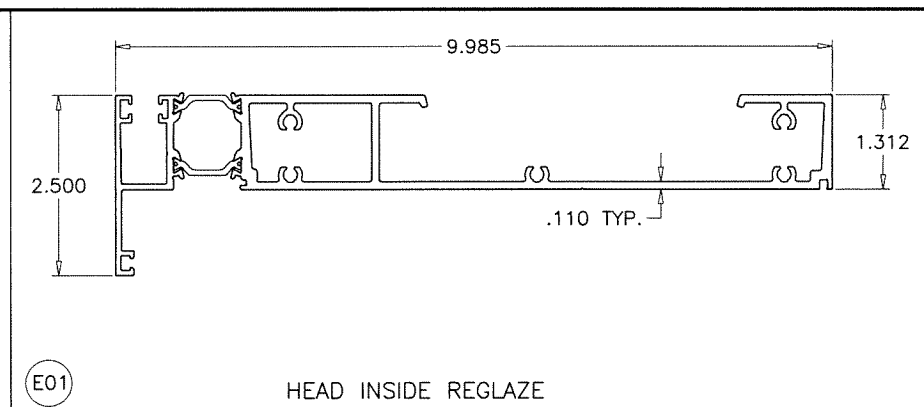
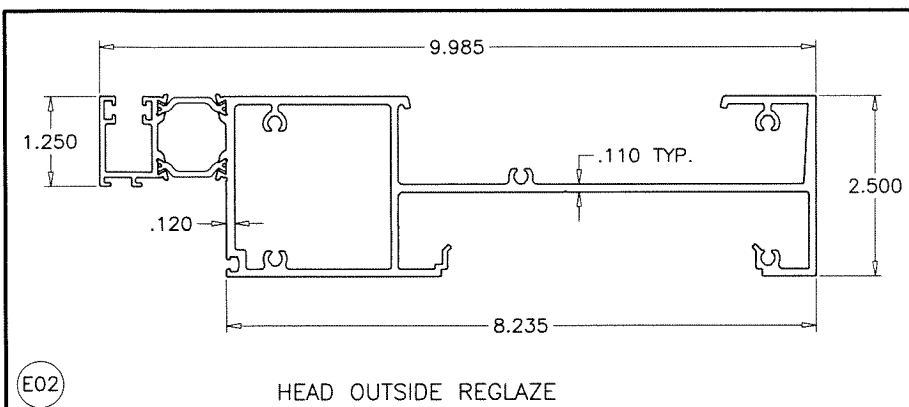
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COMP-ANL\W15-104ESW



TECATHERM® 66 GF INSULBARS
SCALE 1:1
MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. = 781°C
SMOKE DENSITY = 1.63

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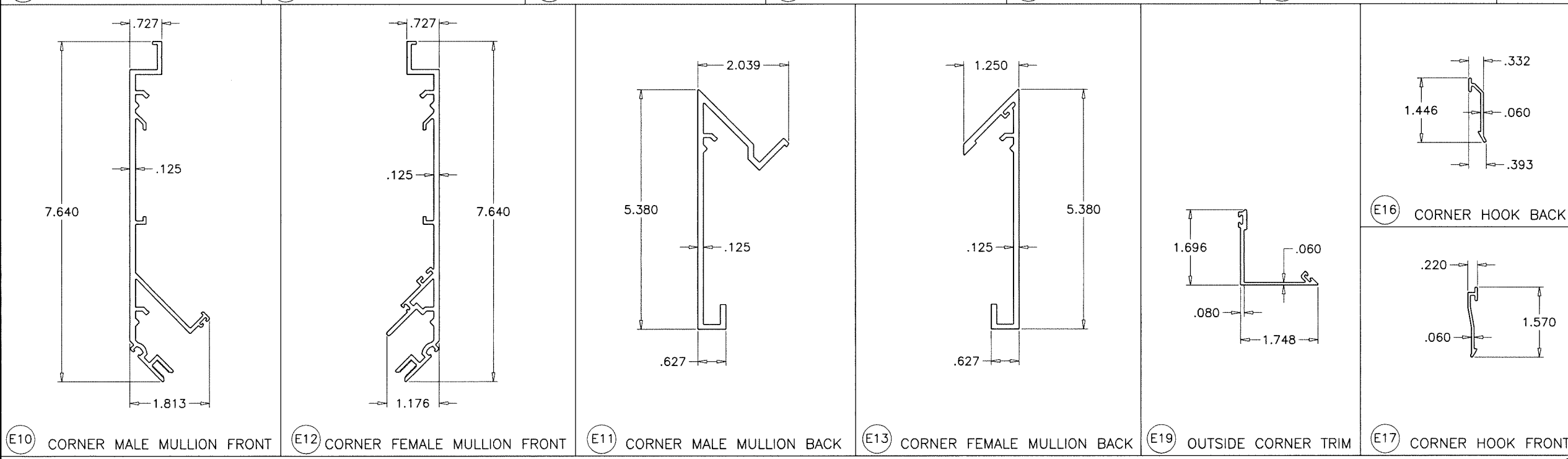
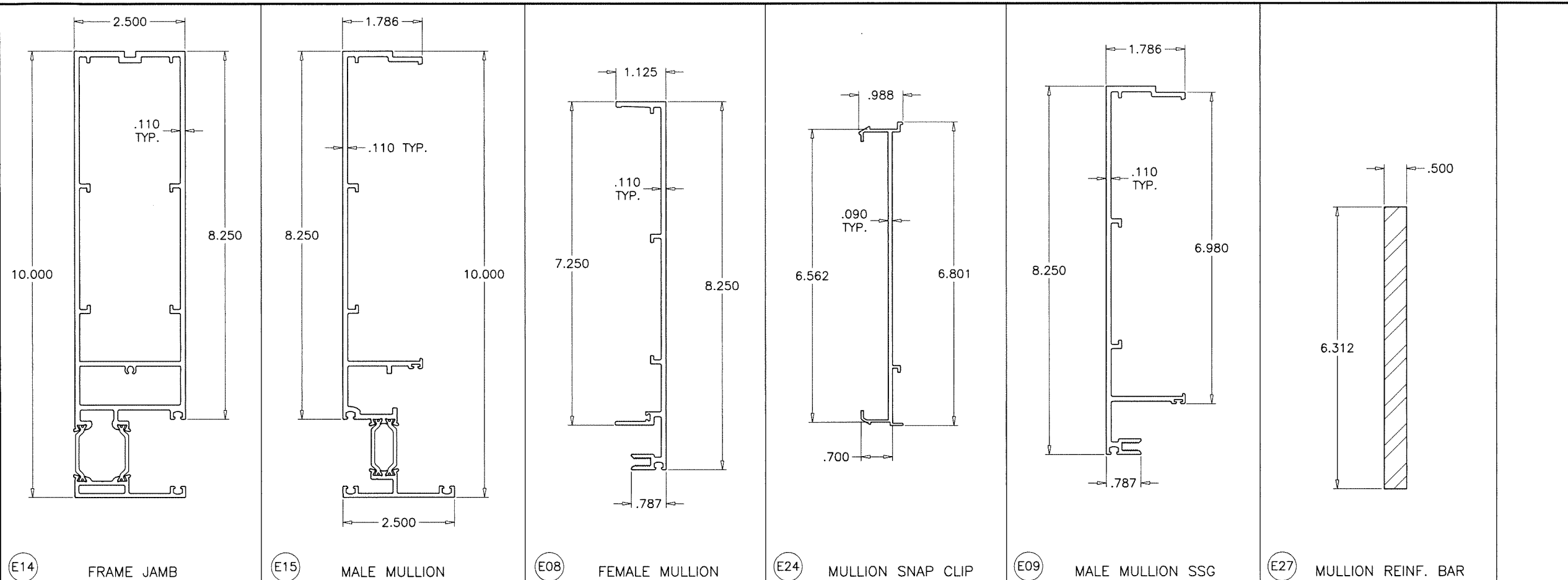
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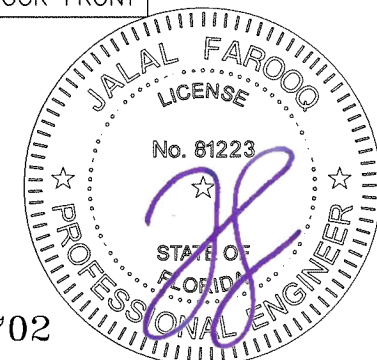
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