

INSTALLATIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

SEE SHEET 5 FOR FOR HORIZONTALLY ORIENTED JAMB AND MULLION CAPACITIES.

**OGT-1000 WINDOW WALL SYSTEM**

THIS STRUCTURALLY GLAZED SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT SHUTTERS ARE NOT REQUIRED.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

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

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

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017 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.

**TYPICAL ELEVATION**

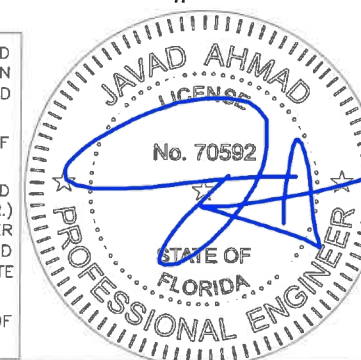
**INSTRUCTIONS:**

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** SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 4 AND 5 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM. THIS VALUE SHOULD MEET OR EXCEED THE DESIGN WIND LOAD REQUIREMENT OBTAINED IN STEP 1 ABOVE.

- 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.

Sealed 8/1/18 FL #19755



**af c**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-9978

OGT-1000 ALUMINUM WINDOW WALL SYS. (L.M.I.)  
OGT WINDOW SYSTEMS  
6910 N.W. 42nd STREET  
MIAMI, FL. 33166  
TEL. (305) 594-3999 FAX. (305) 392-9555

no.	date	by	description
A	07.10.18		UPDATED TO 2017 FBC

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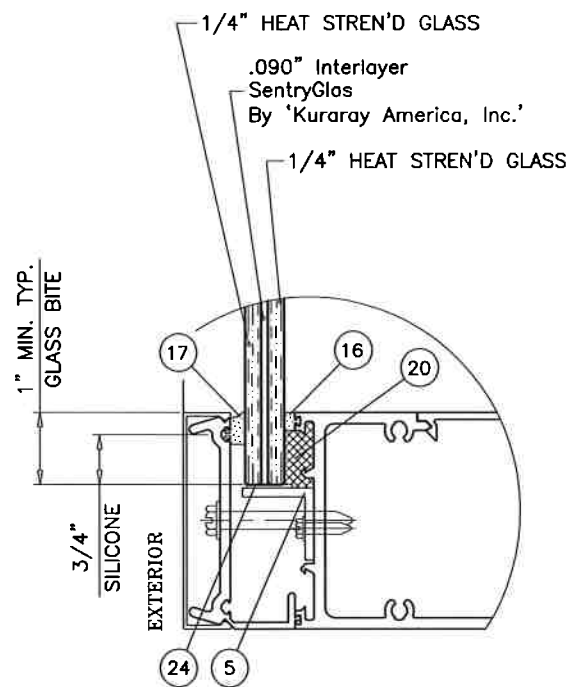
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chk. by:

drawing no.  
**W15-98**

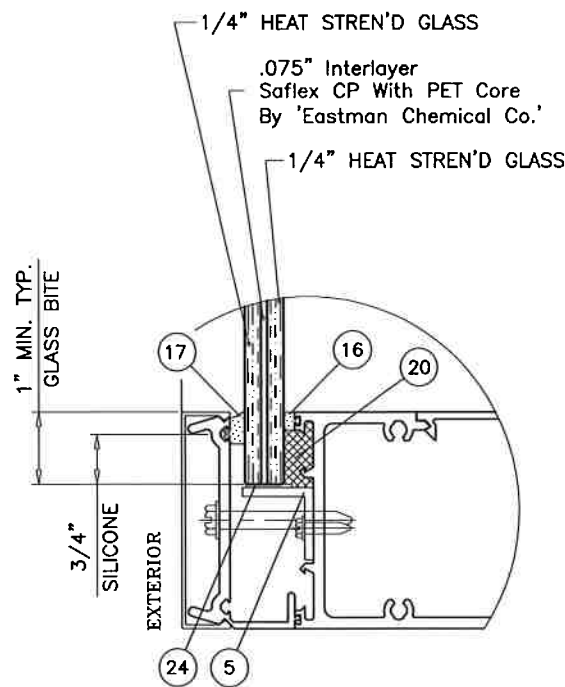
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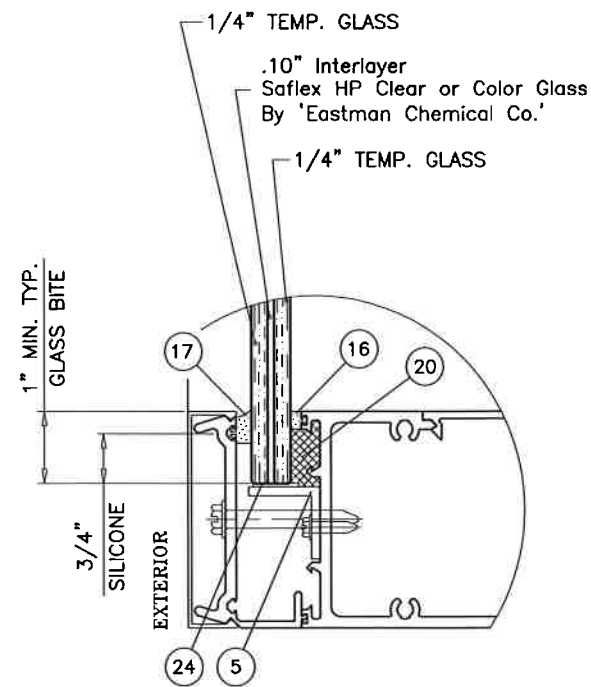




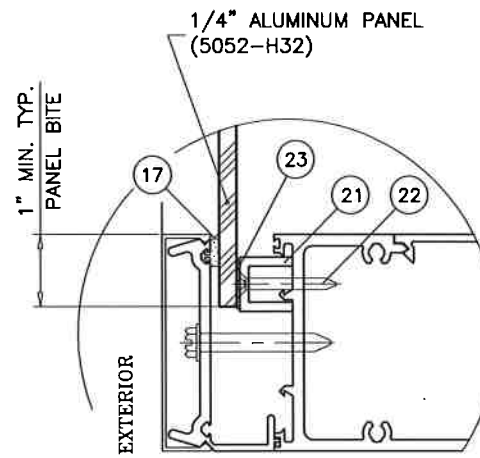
GLASS TYPE 'C'



GLASS TYPE 'D'

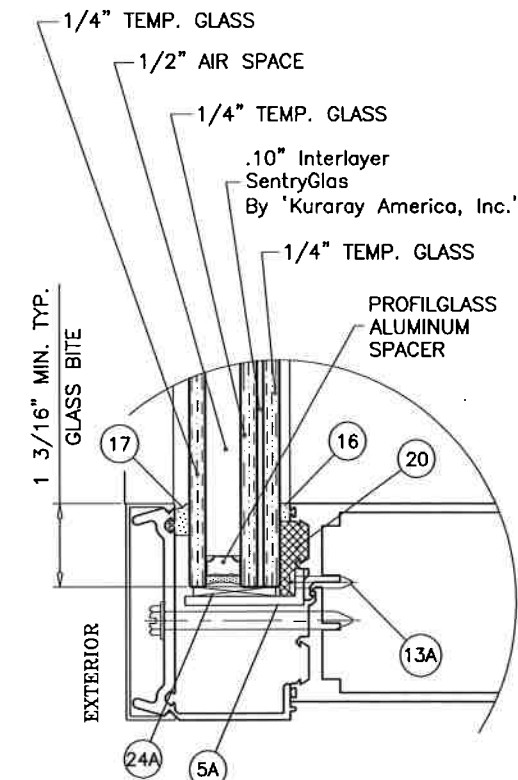


GLASS TYPE 'E'



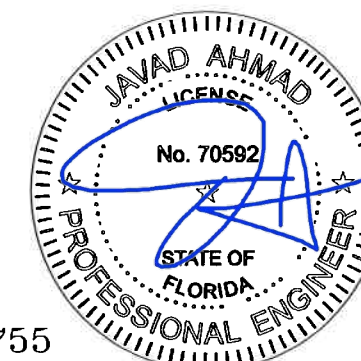
ALUMINUM PANEL OPTION

MAX. PANEL AREA = 15.9 SQ. FT.



GLASS TYPE 'F'

GLAZING OPTIONS



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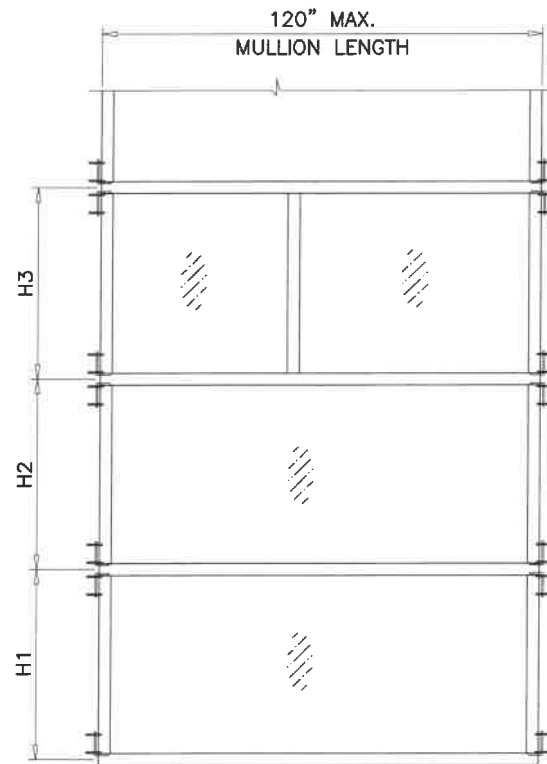
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MULLION LOAD CAPACITY - PSF				
HORIZONTAL MULLION INSTALLATIONS				
NOMINAL DIMS.		JAMB 'J1'	JAMB 'J2'/'J3'	
HEIGHT (H)	MULLION LENGTH	MULL 'M1'	MULL 'M2'	MULL 'M3'
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36"	96"	105.0	105.0	105.0
39"		105.0	105.0	105.0
42"		105.0	105.0	105.0
45"		105.0	105.0	105.0
48"		105.0	105.0	105.0
51"		105.0	105.0	105.0
54"		105.0	105.0	105.0
57"		105.0	105.0	105.0
60"		105.0	105.0	105.0
63"		36.0	105.0	105.0
66"		-	105.0	105.0
69"		-	105.0	105.0
72"	-	105.0	105.0	
36"	102"	105.0	105.0	105.0
39"		105.0	105.0	105.0
42"		105.0	105.0	105.0
45"		105.0	105.0	105.0
48"		105.0	105.0	105.0
51"		105.0	105.0	105.0
54"		29.8	105.0	105.0
57"		-	105.0	105.0
60"		-	105.0	105.0
63"		-	105.0	105.0
66"		-	105.0	105.0
69"		-	105.0	105.0
72"	-	105.0	105.0	
36"	108"	105.0	105.0	105.0
39"		105.0	105.0	105.0
42"		105.0	105.0	105.0
45"		105.0	105.0	105.0
48"		-	105.0	105.0
51"		-	105.0	105.0
54"		-	105.0	105.0
57"		-	105.0	105.0
60"		-	105.0	105.0
63"		-	105.0	105.0
36"	114"	105.0	105.0	105.0
39"		105.0	105.0	105.0
42"		-	105.0	105.0
45"		-	105.0	105.0
48"		-	105.0	105.0
51"		-	105.0	105.0
36"	120"	105.0	105.0	105.0
39"		-	105.0	105.0
42"		-	105.0	105.0
45"		-	105.0	105.0
48"		-	105.0	105.0



HEIGHT (H) = H1  
AT FRAME HEAD/SILL

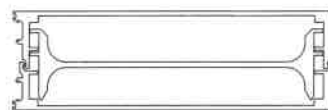
HEIGHT (H) =  $\frac{H2 + H3}{2}$   
AT HORIZONTAL MULLION

HORIZONTALLY ORIENTED WINDOW WALL SYSTEM



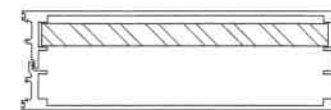
HEAD/SILL 'J1'  
HORIZ. MULLION 'M1'  
NO REINF.

Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
40.8745	8.8446



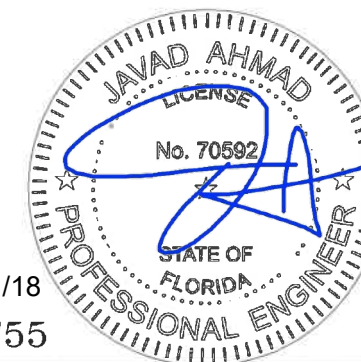
HEAD/SILL 'J2'  
HORIZ. MULLION 'M2'  
ALUM REINF.

Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
62.0274	13.4218



HEAD/SILL 'J3'  
HORIZ. MULLION 'M3'  
STEEL REINF.

	Ix IN <sup>4</sup>	Sx IN <sup>3</sup>
ALUMINUM	40.8745	8.4446
STEEL	26.6667	6.6667
TOTAL	67.5412	15.1113
Ix ALUM + Ix STL X 2.9	118.2078	



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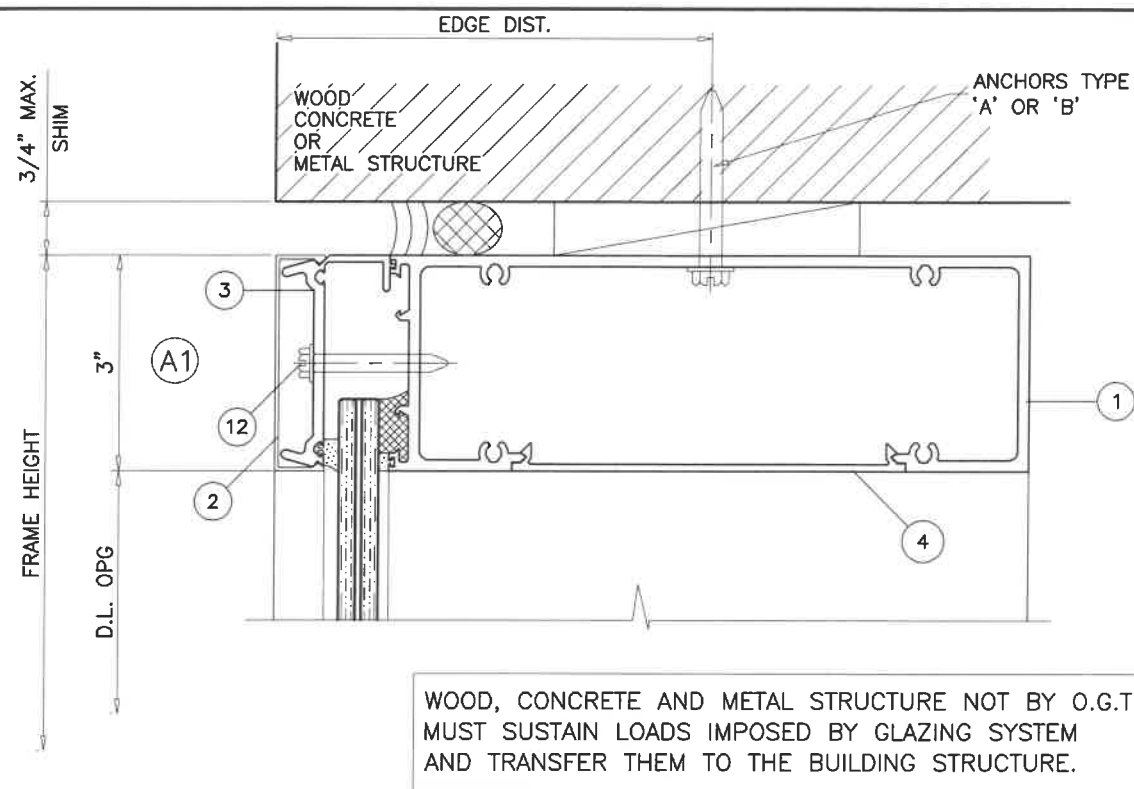
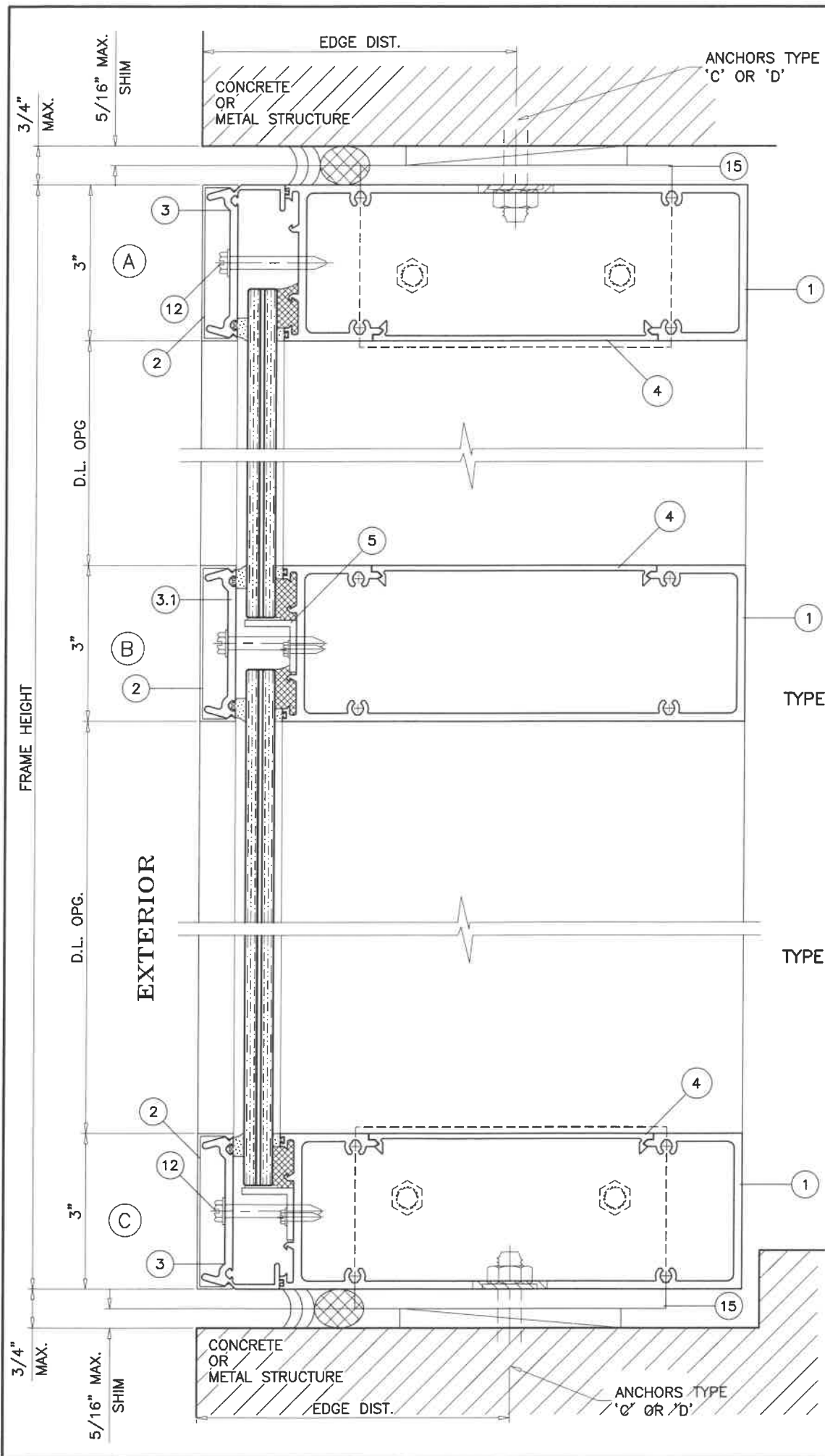
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**ANCHORS DIRECTLY THRU FRAME:**

AS SHOWN IN DETAIL 'A1', SEE ELEV. FOR SPACING

- TYPE 'A' - 5/16" DIA. ULTRACON BY 'ELCO'** ( $F_u=177$  KSI,  $F_y=155$  KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-7/8" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR BLOCKS  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)  
 DIRECTLY INTO CONCRETE OR BLOCKS  
 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 2" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

- TYPE 'B' - 5/16" DIA. TEKS OR SELF DRILLING SCREWS** (GRADE 5 CRS)  
 INTO F.B.C. APPROVED MULLIONS  
 AND  
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)  
 (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)

**CRITICAL EDGE DISTANCE**

- INTO CONCRETE AND BLOCKS = 2-1/2" MIN.  
 INTO WOOD STRUCTURE = 1-1/4" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.

**SEALANTS:**

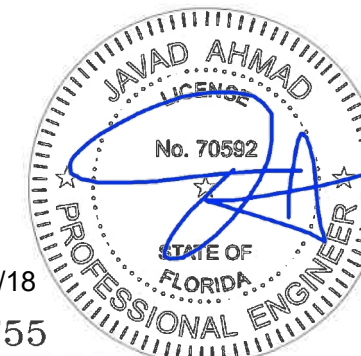
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH DOWSIL 795 SEALANT.

**ANCHORS THRU CLIP ANGLE:**

AS SHOWN IN DETAIL 'A',

- TYPE 'C' - 1/2" DIA. KWIK BOLT-3 EXPANSION ANCHOR**  
 DIRECTLY INTO CONCRETE  
 (2) PER ANGLE  
 2-1/2" MIN. EMBED INTO CONC.  
 3-3/8" MIN. EDGE DISTANCE  
 3-1/2" MIN. CL TO CL SPACING
- TYPE 'D' - 5/16" DIA. DRIL-FLEX SELF DRILLING SCREWS**  
 INTO METAL STRUCTURES (STEEL 1/8" MIN. THK.)  
 (4) PER ANGLE  
 3/4" MIN. EDGE DISTANCE  
 3" MIN. CL TO CL SPACING

WOOD AT HEAD, SILL 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.



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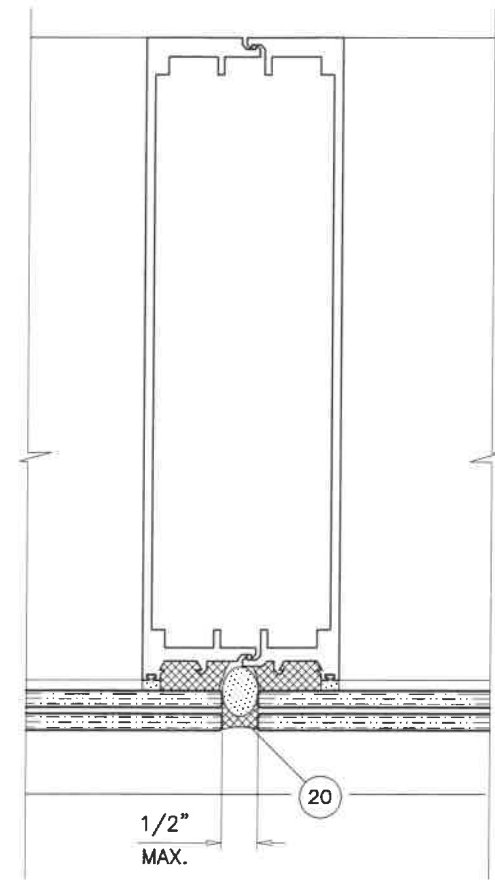
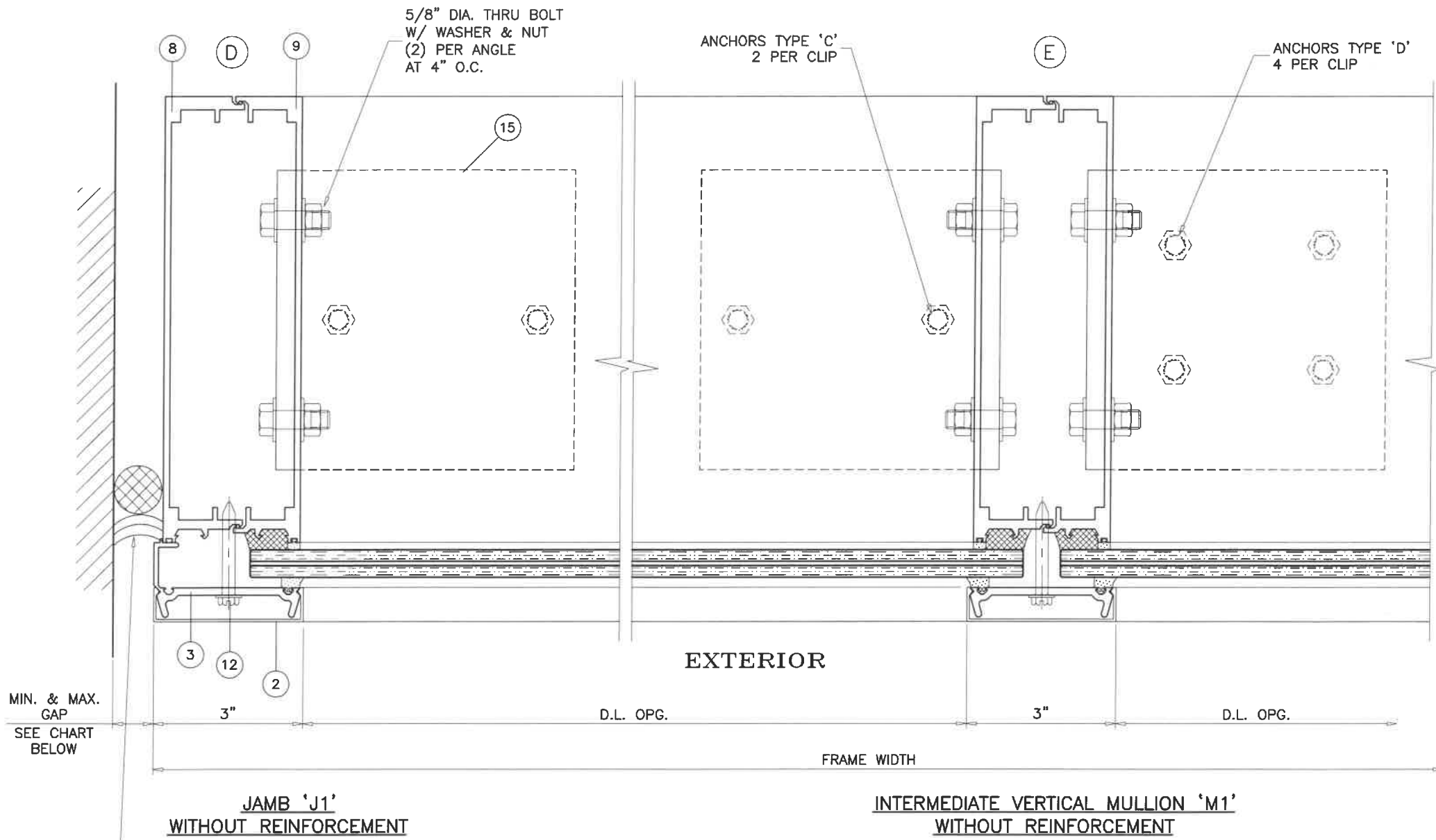
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MIN. & MAX. GAP  
SEE CHART BELOW

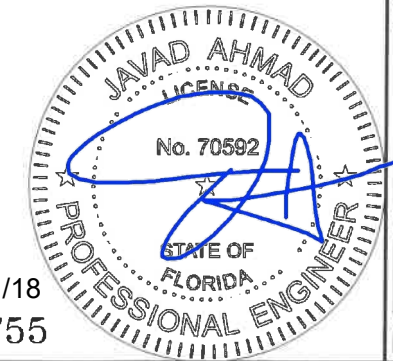
JAMB 'J1'  
WITHOUT REINFORCEMENT

INTERMEDIATE VERTICAL MULLION 'M1'  
WITHOUT REINFORCEMENT

SILICONE DOWSIL 790

MAX. FRAME HEIGHT	MIN. GAP	MAX. GAP
144"	5/8"	1"
120"	1/2"	1"
96"	1/2"	1"

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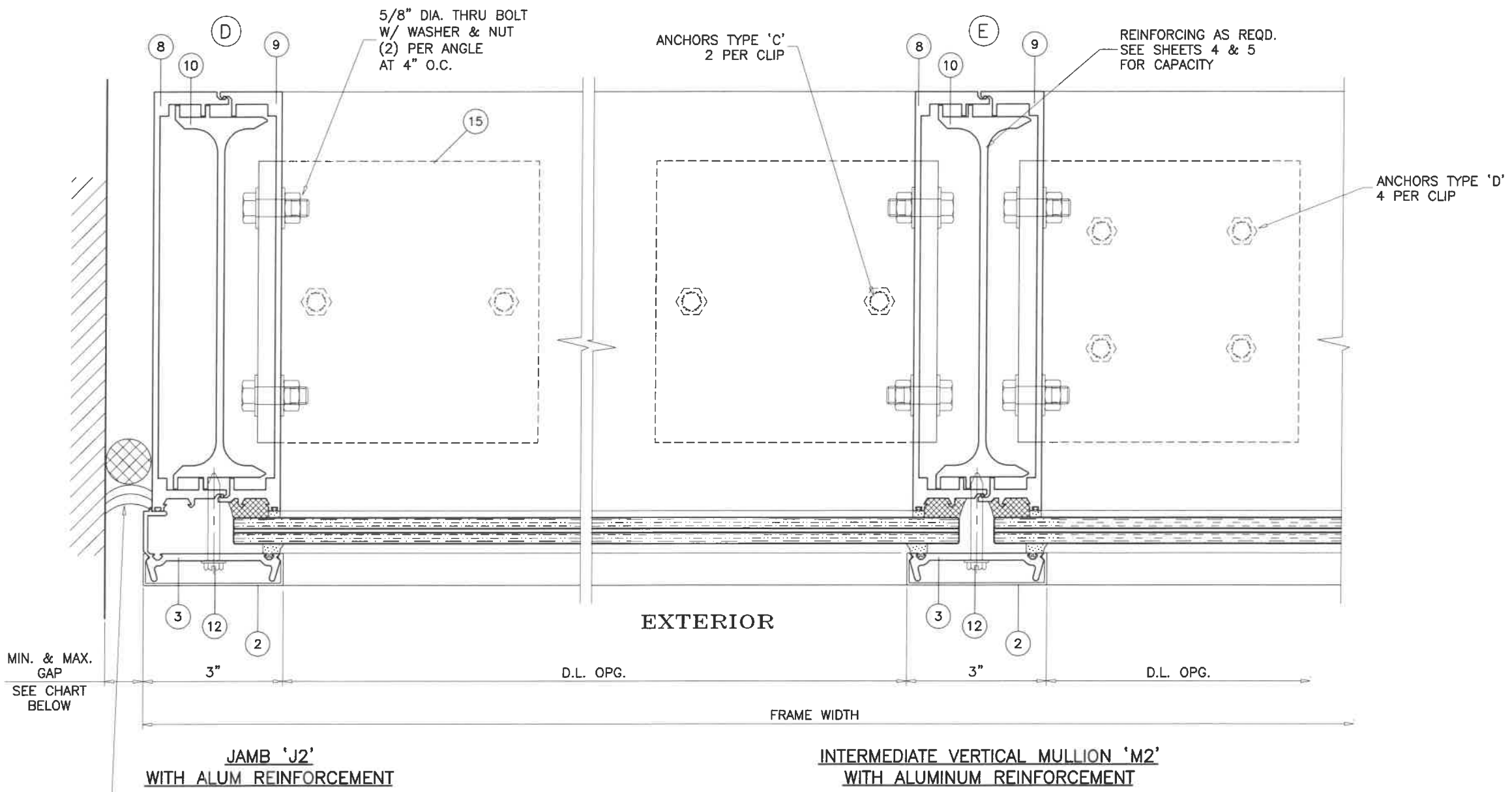
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MIN. & MAX. GAP  
SEE CHART BELOW

**JAMB 'J2'**  
WITH ALUM REINFORCEMENT

**INTERMEDIATE VERTICAL MULLION 'M2'**  
WITH ALUMINUM REINFORCEMENT

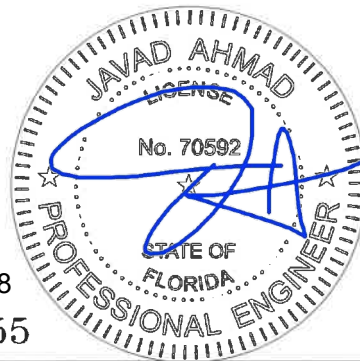
	MAX. FRAME HEIGHT	MIN. GAP	MAX. GAP
SILICONE DOWSIL 790	168"	3/4"	1"
	144"	5/8"	1"
	120"	1/2"	1"
	96"	1/2"	1"

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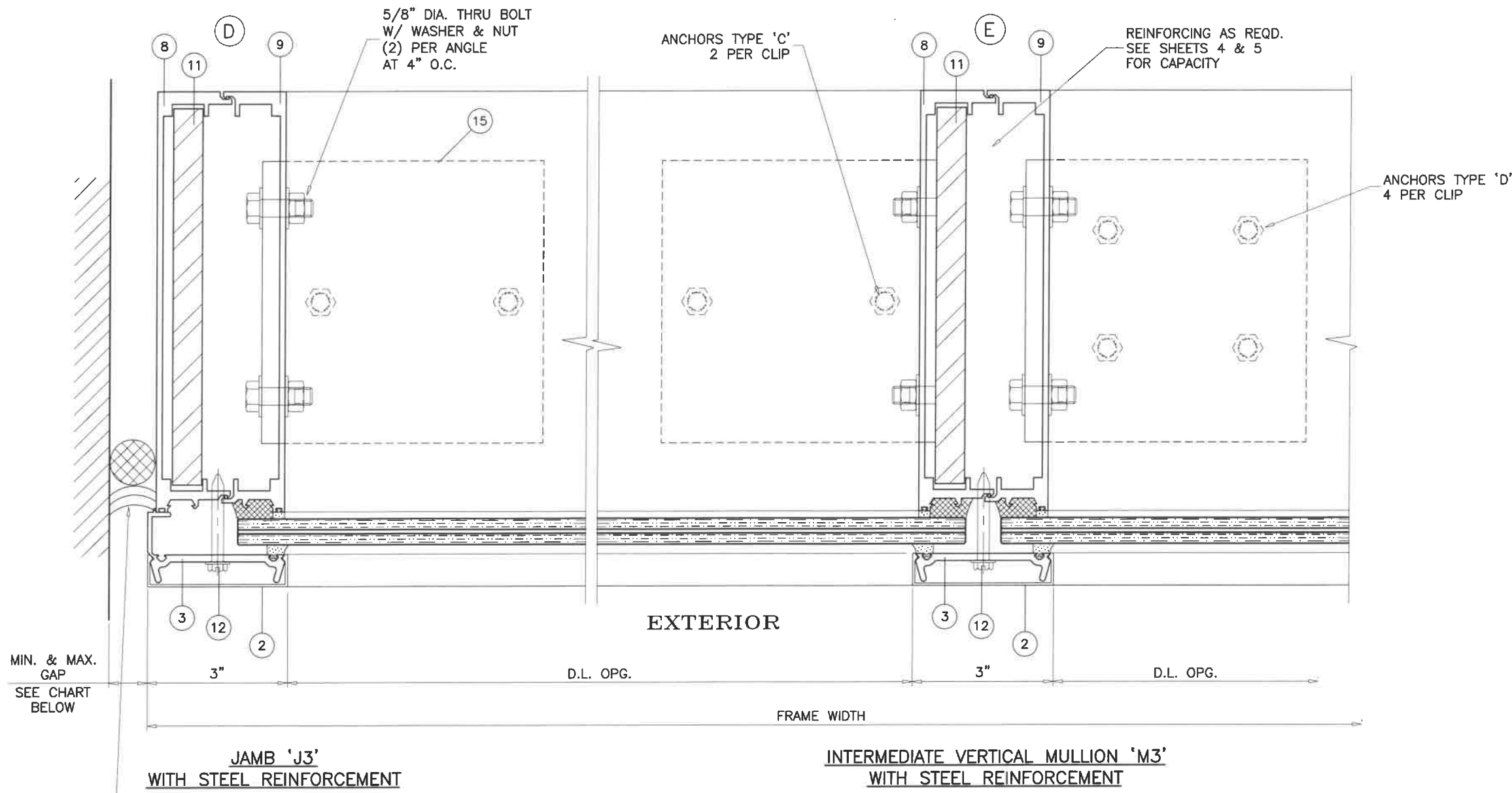
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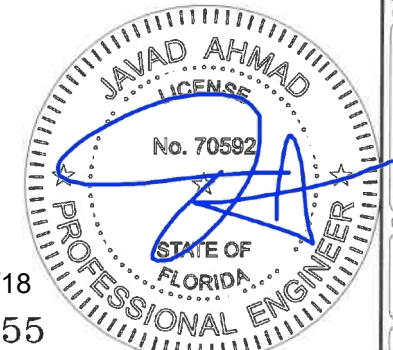


MAX. FRAME HEIGHT	MIN. GAP	MAX. GAP
168"	3/4"	1"
144"	5/8"	1"
120"	1/2"	1"
96"	1/2"	1"

SILICONE  
DOWSIL 790

MIN. & MAX.  
GAP  
SEE CHART  
BELOW

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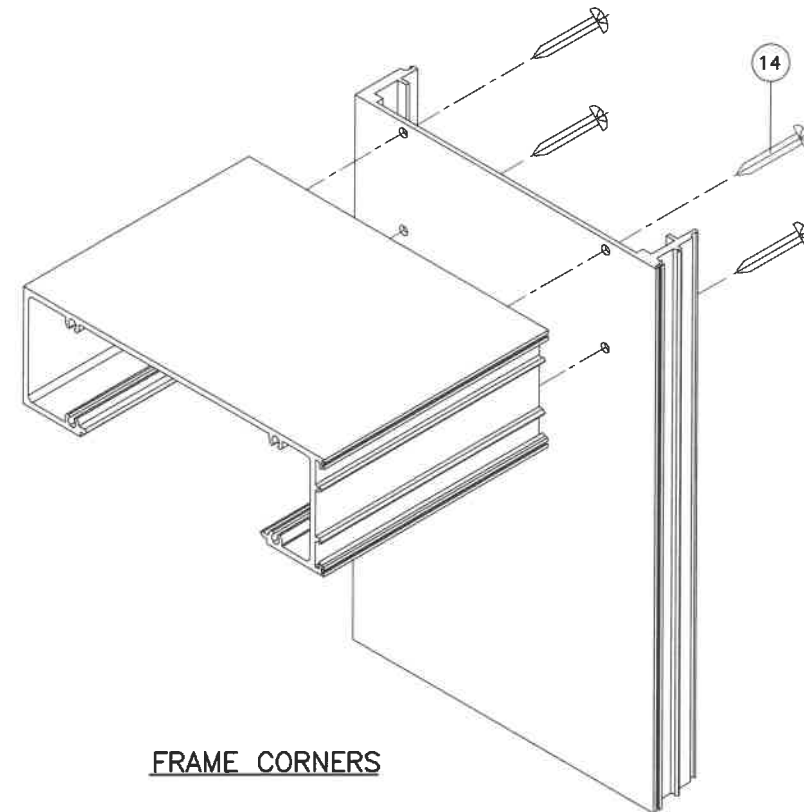
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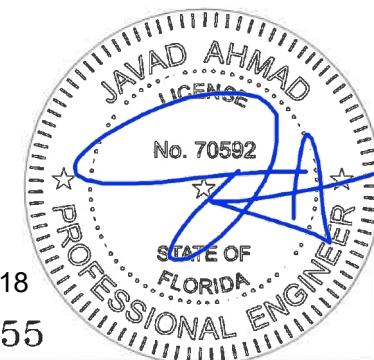
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ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	OIC-017	AS REQD.	FRAME HEAD/SILL/INTERMEDIATE	6063-T6	-
2	OIC-019	AS REQD.	GLAZING RETAINER COVER	6063-T6	-
3	OIC-018	AS REQD.	PERIMETER GLAZING RETAINER (LAM. GLASS)	6063-T6	-
3.1	-	AS REQD.	INTERMEDIATE GLAZING RETAINER	6063-T6	-
4	CSM-1027	AS REQD.	SNAP-IN COVER	6063-T6	-
5	-	AS REQD.	SETTING ANGLE (LAM. GLASS)	6063-T6	4" LONG
5A	-	AS REQD.	SETTING ANGLE (INSUL. LAM. GLASS)	6063-T6	6" LONG
6	-	-	-	-	-
7	-	2/ CORNER	ROLL FORMED ALUMINUM CORNER	6063-T6	-
8	OIC-3	AS REQD.	MALE MULLION	6063-T6	-
9	OIC-2	-	FEMALE MULLION	6063-T6	-
10	OIC-68	-	MULLION REINFORCING	6063-T6	-
11	-	-	MULLION REINFORCING	STEEL	-
12	1/4" DIA.	AS REQD.	GLAZING RETAINER SCREWS	-	WASHER HEAD TEKS, AT 12" O.C.
13	#10 X 3/4"	1/ CLIP	SETTING ANGLE SCREWS (LAM. GLASS)	-	TEKS
13A	#10 X 3/4"	3/ CLIP	SETTING ANGLE SCREWS (INSUL. LAM. GLASS)	-	TEKS, AT 2-1/2" O.C.
14	1/4 X 2"	4/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	HH TEKS
15	-	2/ MULLION	3-1/2 X 6 X 3/8" ALUM ANGLE, 6" LONG	6063-T6	(1) AT EACH SIDE OF MULLION
16	WE-1641	-	INT. GLAZING GASKET	PVC	UNIVERSAL RUBBER CO.
17	2338	-	EXT. GLAZING GASKET	PVC	UNIVERSAL RUBBER CO.
18	-	-	SEALANT AND BACKER ROD	-	-
20	DOWSIL 995	AS REQD.	GLAZING COMPOUND	SILICONE	-
21	-	AS REQD.	SETTING CHANNEL	6063-T6	3/4 X 3/4 X 1/8"
22	#10 X 1-1/2"	AS REQD.	CHANNEL SCREWS	-	FH TEKS, AT 24" O.C.
23	-	AS REQD.	DOUBLE FACE TAPE	-	-
24	-	AS REQD.	SETTING BLOCK, 1-1/2" X 4" X 1/16"	NEOPRENE	DUROMETER 80±5 SHORE A
24A	-	AS REQD.	SETTING BLOCK, 1-1/2" X 4" X 1/8"	NEOPRENE	DUROMETER 80±5 SHORE A



FRAME CORNERS



Sealed 8/1/18  
FL #19755

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OGT-1000 ALUMINUM WINDOW WALL SYS. (L.M.I.)

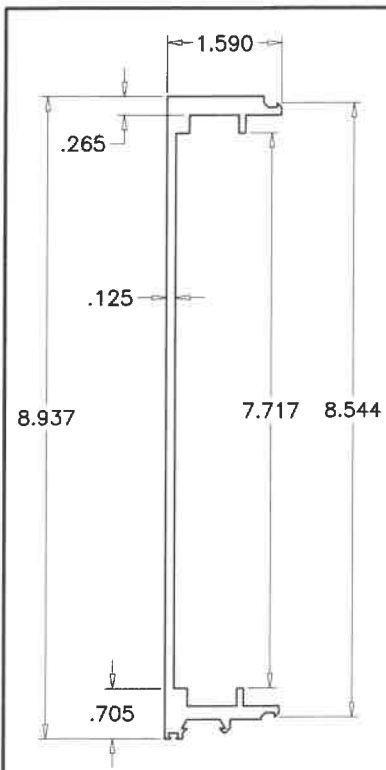
**OGT WINDOW SYSTEMS**  
6910 N.W. 42nd STREET  
MIAMI, FL. 33166  
TEL. (305) 594-3999 FAX. (305) 392-9555

no	date	by	description

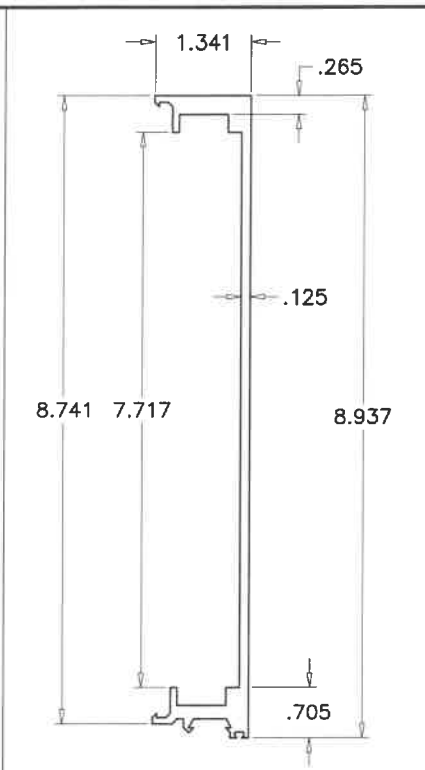
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dr. by: TARIQ  
chk. by:

drawing no.  
**W15-98**  
sheet 10 of 11

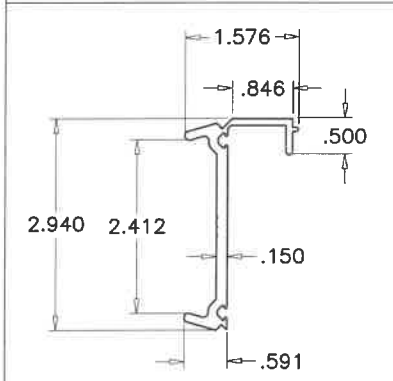
STORE\W15-98



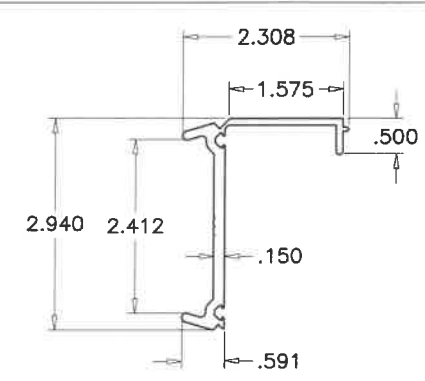
8 MALE MULLION



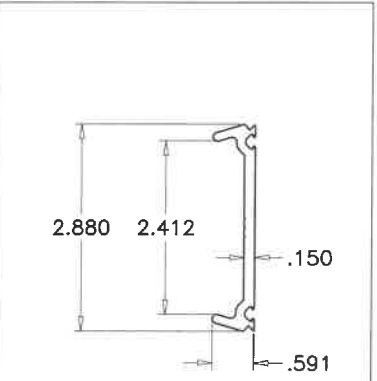
9 FEMALE MULLION



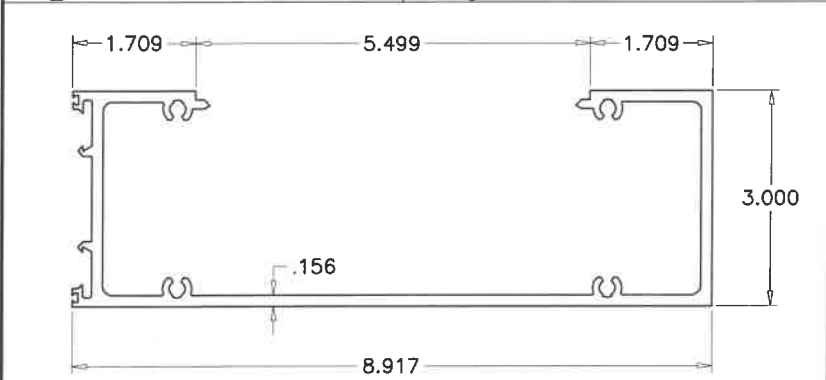
3 PERIMETER GLAZING RETAINER (LAM. GLASS)



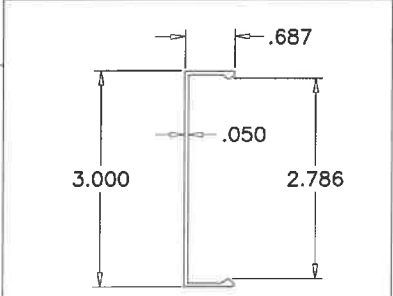
3A PERIMETER GLAZING RETAINER (INSUL. LAM. GLASS)



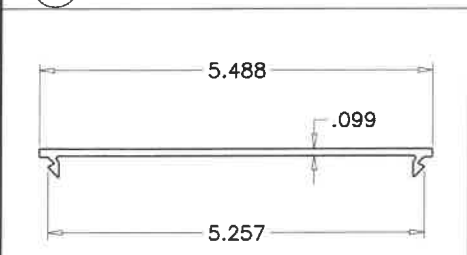
3.1 INTERMEDIATE GLAZING RETAINER



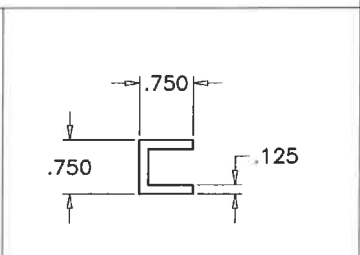
1 FRAME HEAD/SILL/INTERMEDIATE



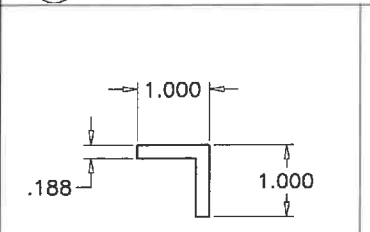
2 GLAZING RETAINER COVER



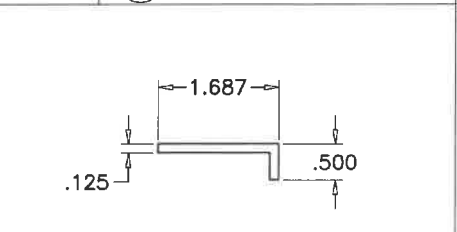
4 SNAP-IN COVER



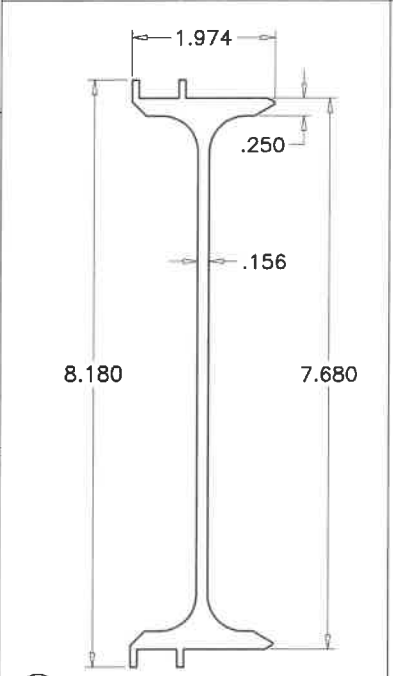
21 SETTING CHANNEL



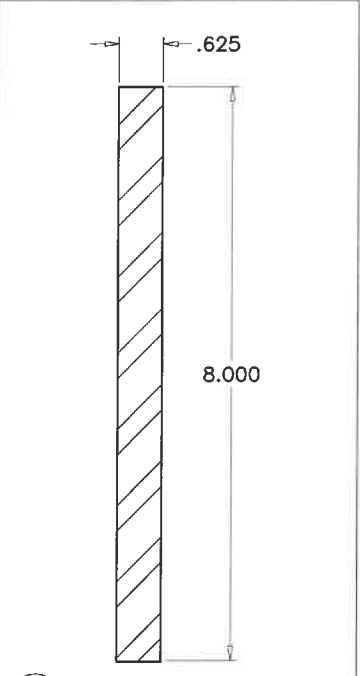
5 SETTING ANGLE (LAM. GLASS)



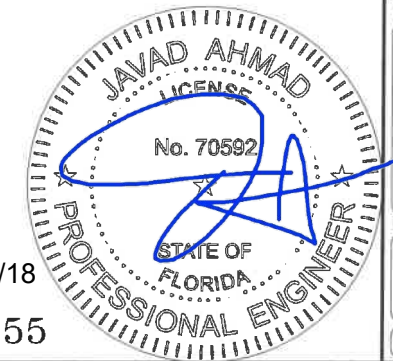
5A SETTING ANGLE (INSUL. LAM. GLASS)



10 MULLION REINFORCING ALUMINUM



11 MULLION REINFORCING STEEL



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revisions:  
no. date by description

drawing no.  
**W15-98**  
sheet 11 of 11

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