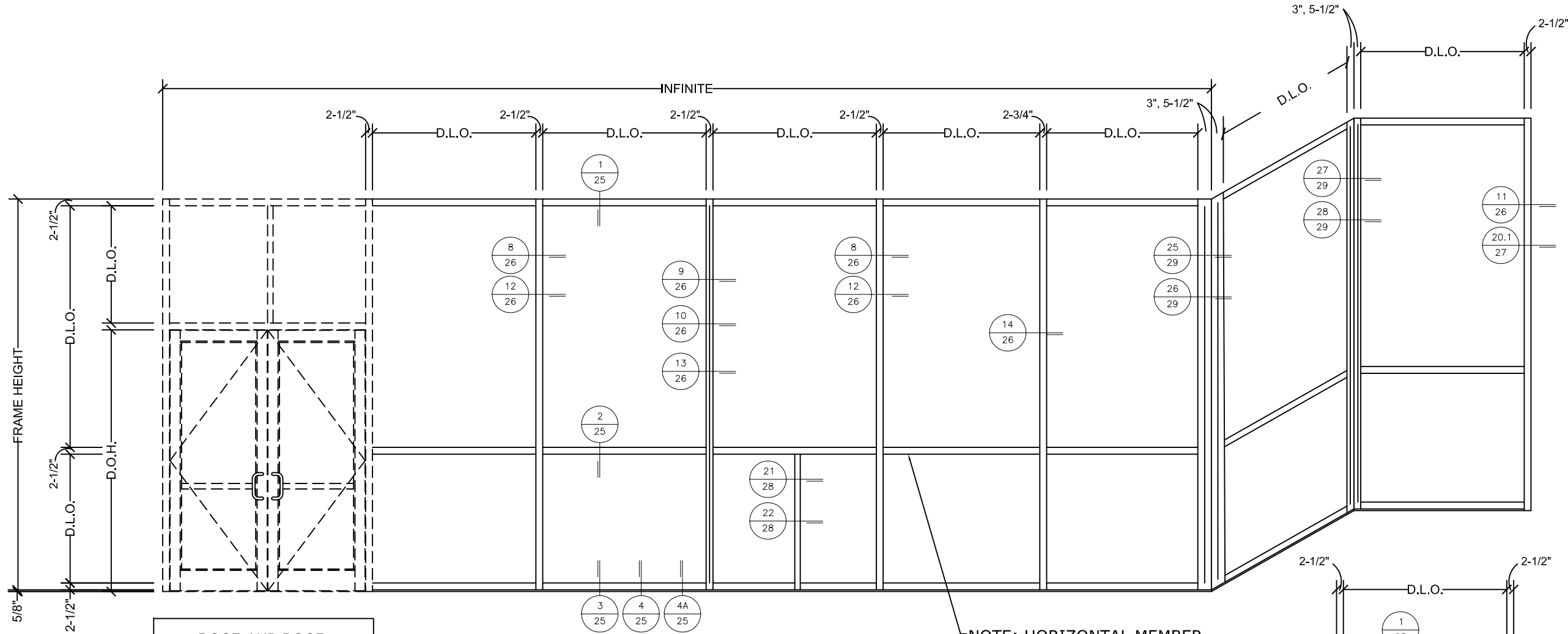




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DOOR AND DOOR FRAMES ARE SHOWN ON SEPARATE APPROVAL

NOTE: HORIZONTAL MEMBER IS LIMITED TO 96" IN LENGTH.

**OUTSIDE DRY AND WET GLAZED ELEVATIONS  
(DEPICTED WITH FG-5712 SUB SILL)**

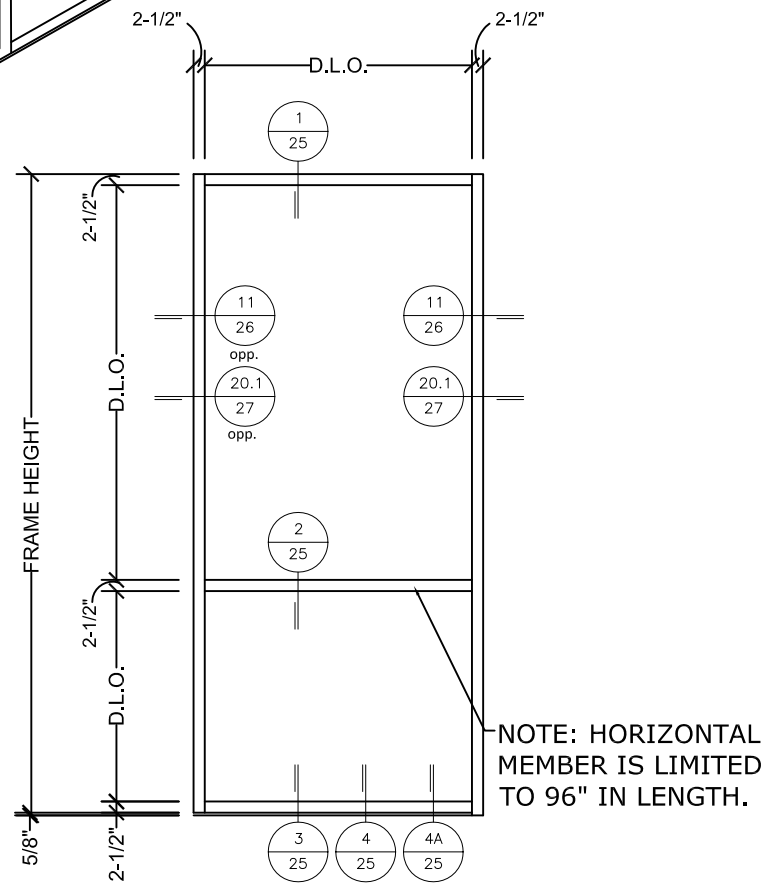
**INSTRUCTIONS TO DETERMINE DESIGN PRESSURE RATING**

STEP ①: USE THE GLASS LOADING TABLES TO DETERMINE THE ALLOWABLE PRESSURE OF THE GLASS.

STEP ②: USE THE MULLION LOADING TABLE TO DETERMINE THE ALLOWABLE PRESSURES FOR THE MULLIONS  
NOTE: TO DETERMINE THE LOADS OF THE MULLIONS, SEE DIAGRAM ON PAGE 9

STEP ③: THE MINIMUM VALUE BETWEEN STEP ① AND STEP ② WILL DETERMINE THE DESIGN LOAD PRESSURE FOR THE STOREFRONT SYSTEM.

STEP ④: LESSER OF SILL / HEAD ALLOWABLE PRESSURE (PAGE 25) AND FASTENER SCHEDULE (PAGES 15-24) MUST MEET OR EXCEED DESIGN LOAD PRESSURE FOR THE STOREFRONT SYSTEM.



NOTE: HORIZONTAL MEMBER IS LIMITED TO 96" IN LENGTH.

**TYPICAL SINGLE PANEL OPENING**  
FRAME SIZE FOR SINGLE OPENINGS SHALL BE GOVERNED BY THE MAXIMUM ALLOWABLE D.L.O. DIMENSIONS DISPLAYED ON THE GLASS CHARTS

DOORS ARE SHOWN BY SEPARATE APPROVAL  
LESSER PRESSURE WILL PREVAIL ON COMBINED PRODUCTS  
MINIMUM SHIM SPACE REQUIRED 1/4", MAXIMUM SHIM SPACE 1/2"

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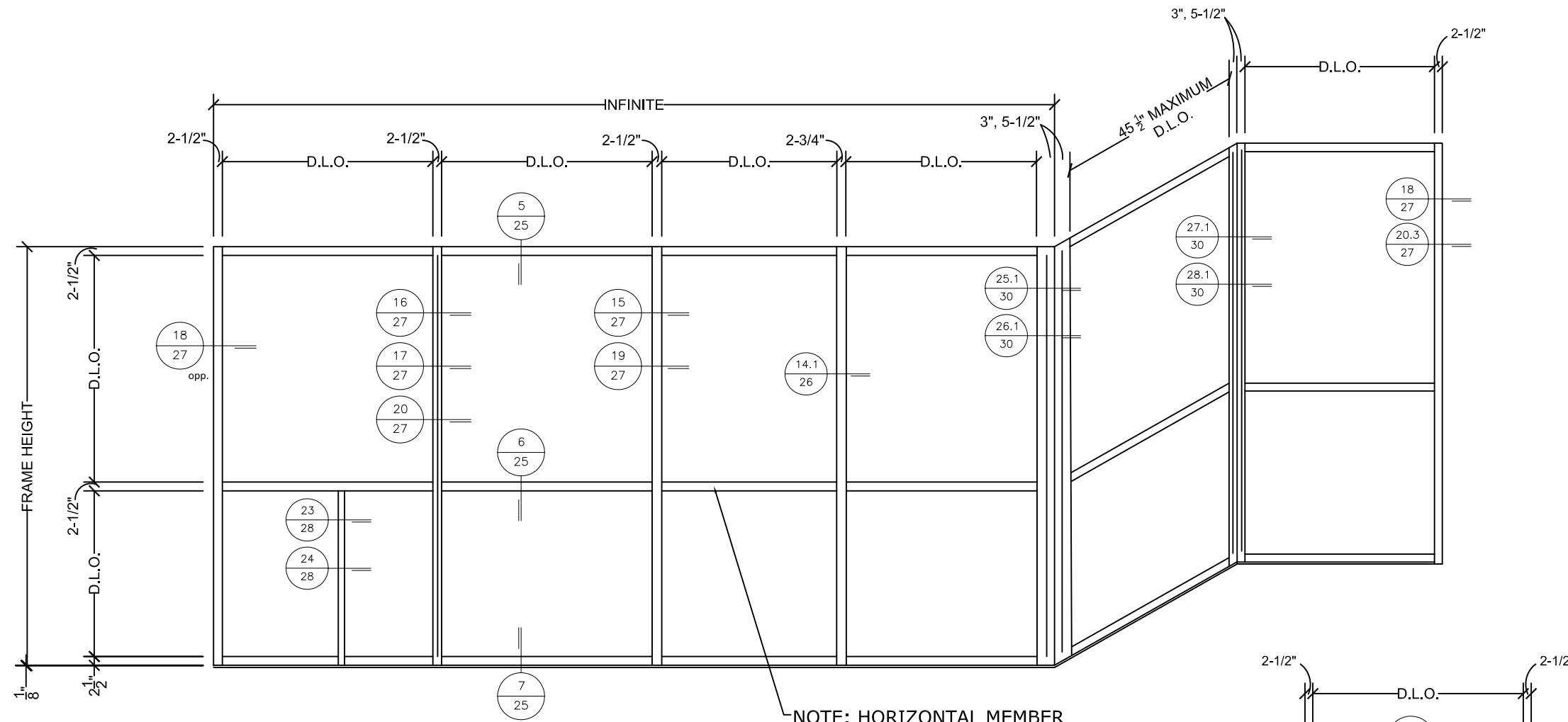
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NOTE: HORIZONTAL MEMBER IS LIMITED TO 96" IN LENGTH.

**INSIDE DRY GLAZED ELEVATIONS  
(DEPICTED WITH FG-5180 SUB SILL)**

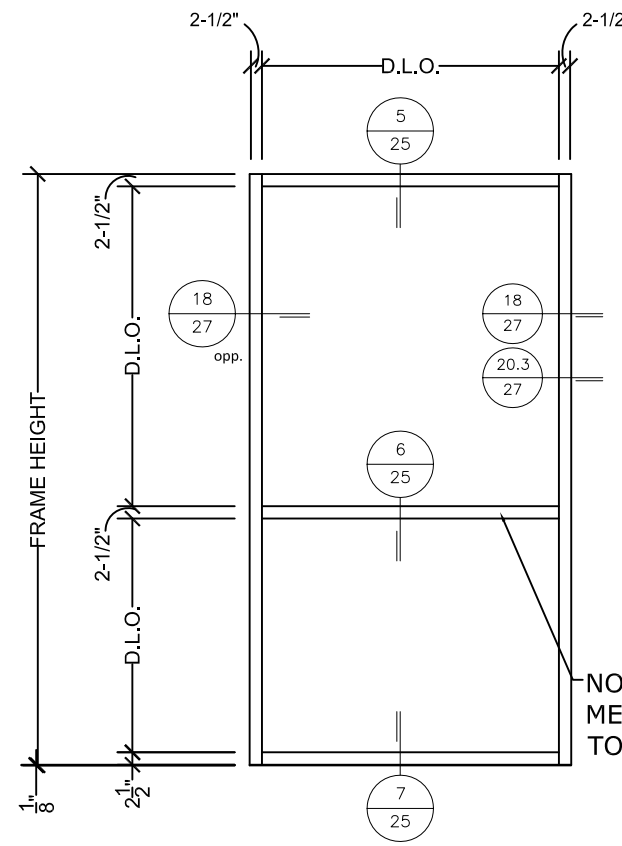
**INSTRUCTIONS TO DETERMINE DESIGN PRESSURE RATING**

STEP ①: USE THE GLASS LOADING TABLES TO DETERMINE THE ALLOWABLE PRESSURE OF THE GLASS.

STEP ②: USE THE MULLION LOADING TABLE TO DETERMINE THE ALLOWABLE PRESSURES FOR THE MULLIONS  
NOTE: TO DETERMINE THE LOADS OF THE MULLIONS, SEE DIAGRAM ON PAGE 9

STEP ③: THE MINIMUM VALUE BETWEEN STEP ① AND STEP ② WILL DETERMINE THE DESIGN LOAD PRESSURE FOR THE STOREFRONT SYSTEM.

STEP ④: LESSER OF SILL / HEAD ALLOWABLE PRESSURE (PAGE 25) AND FASTENER SCHEDULE (PAGES 15-24) MUST MEET OR EXCEED DESIGN LOAD PRESSURE FOR THE STOREFRONT SYSTEM.



NOTE: HORIZONTAL MEMBER IS LIMITED TO 96" IN LENGTH.

**TYPICAL SINGLE PANEL OPENING**

FRAME SIZE FOR SINGLE OPENINGS SHALL BE GOVERNED BY THE MAXIMUM ALLOWABLE D.L.O. DIMENSIONS DISPLAYED ON THE GLASS CHARTS

DOORS ARE SHOWN BY SEPARATE APPROVAL  
LESSER PRESSURE WILL PREVAIL ON COMBINED PRODUCTS  
MINIMUM SHIM SPACE REQUIRED 1/4", MAXIMUM SHIM SPACE 1/2"



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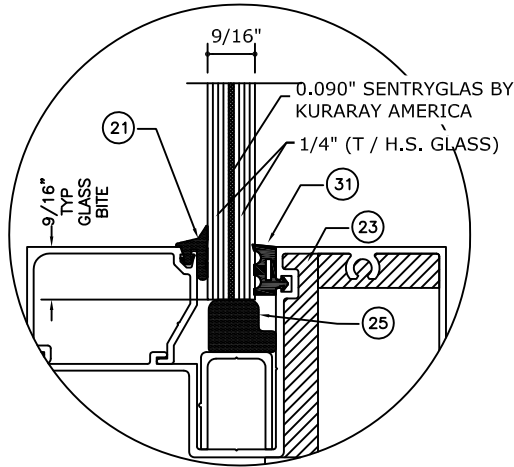
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# GLASS TYPES (L.M.I.) - MISSILE LEVEL "D"

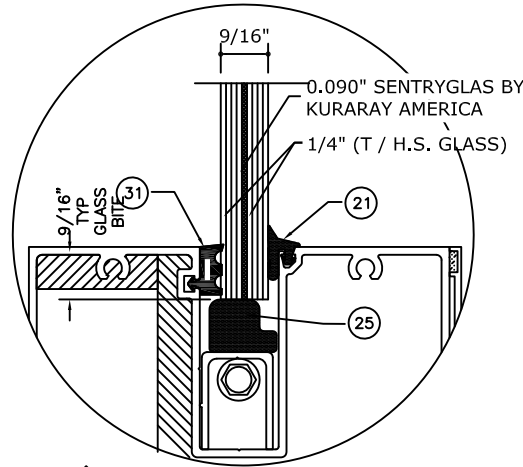


GLASS TYPE **G1**

GLAZING DETAIL (DRY GLAZED)

N.T.S.

**GLASS RATING:**  
LARGE MISSILE LEVEL D  
9/16" GLASS

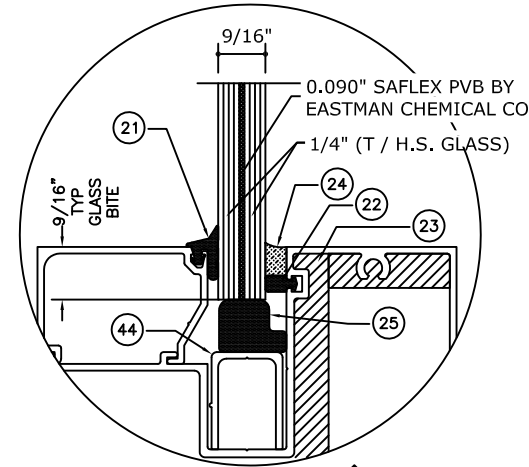


GLASS TYPE **G2**

GLAZING DETAIL (WET GLAZED)

N.T.S.

**GLASS RATING:**  
LARGE MISSILE LEVEL D  
9/16" GLASS

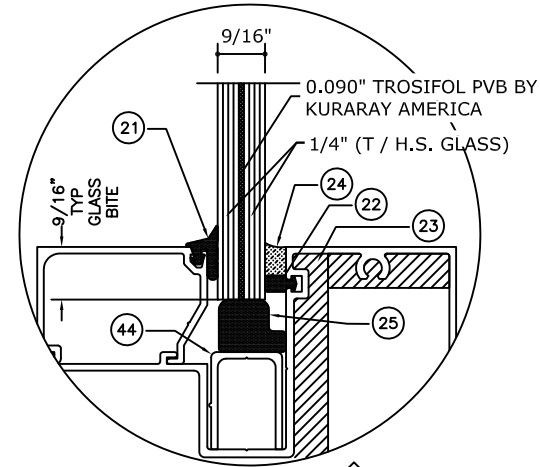


GLASS TYPE **G3**

GLAZING DETAIL (WET GLAZED)

N.T.S.

**GLASS RATING:**  
LARGE MISSILE LEVEL D  
9/16" GLASS

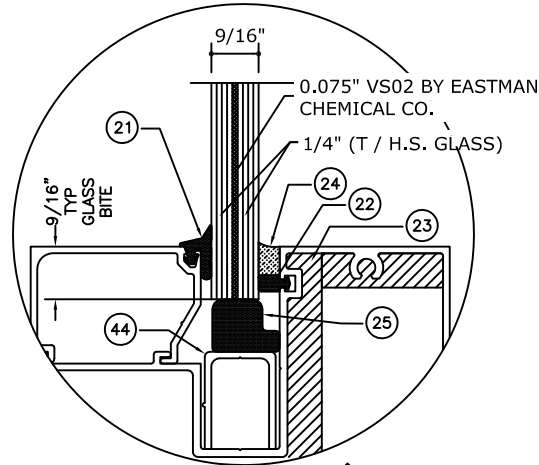


GLASS TYPE **G4**

GLAZING DETAIL (WET GLAZED)

N.T.S.

**GLASS RATING:**  
LARGE MISSILE LEVEL D  
9/16" GLASS



GLASS TYPE **G5**

GLAZING DETAIL (WET GLAZED)

N.T.S.

**GLASS RATING:**  
LARGE MISSILE LEVEL D  
9/16" GLASS

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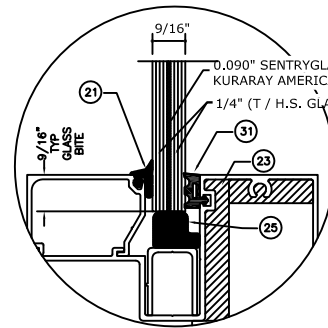
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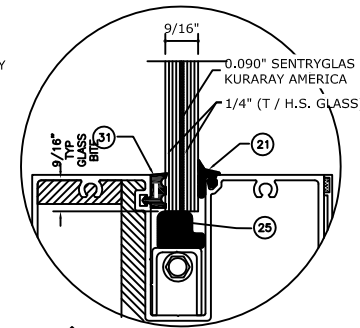


# GLASS LOADING TABLES

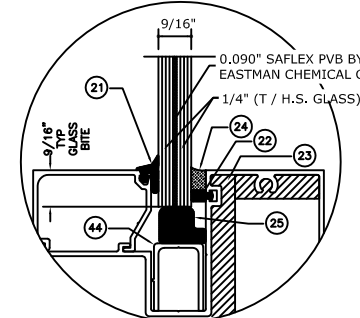
GLASS TYPES		G1		G2		G3		G4		G5	
		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
54	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	65	65	65	65	70	80	90	90
	36	60	70	65	65	65	65	70	80	90	90
	42	60	70	65	65	65	65	70	80	90	90
	48	60	70	60	60	56	56	70	80	90	90
	54	60	70	60	60	50	50	70	80	80	80
	56 1/4	60	70	60	60	50	50	70	80	80	80
	57 1/2	60	70	60	60	50	50	70	80	80	80
	60	60	70	60	60	50	50	70	80	80	80
	66	60	70	60	60	50	50	70	80	80	80
60	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	65	65	65	65	70	80	90	90
	36	60	70	65	65	65	65	70	80	90	90
	42	60	70	65	65	65	65	70	80	90	90
	48	60	70	60	60	56	56	70	80	90	90
	54	60	70	60	60	50	50	70	80	80	80
	56 1/4	60	70	60	60	48	48	70	80	76	76
	57 1/2	60	70	60	60	47	47	70	80	75	75
	60	57	67	57	57	45	45	67	76	72	72
	66	57	67	57	57	45	45	67	76	72	72
66	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	65	65	65	65	70	80	90	90
	36	60	70	65	65	65	65	70	80	90	90
	42	60	70	65	65	65	65	70	80	90	90
	48	60	70	60	60	56	56	70	80	90	90
	54	60	70	60	60	50	50	70	80	80	80
	56 1/4	60	70	60	60	48	48	70	80	76	76
	57 1/2	60	70	60	60	47	47	70	80	75	75
	60	57	67	57	57	45	45	67	76	72	72
	66	52	60	52	52	-	-	60	69	65	65
72	24	60	70	65	65	65	65	70	80	90	90
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	36	60	70	65	65	65	65	70	80	90	90
	42	60	70	65	65	65	65	70	80	90	90
	48	60	70	60	60	56	56	70	80	90	90
	54	60	70	60	60	50	50	70	80	80	80
	56 1/4	60	70	60	60	48	48	70	80	76	76
	57 1/2	60	70	60	60	47	47	70	80	75	75
	60	57	67	57	57	45	45	67	76	72	72
	66	52	60	52	52	-	-	60	69	65	65
72	47	55	47	47	-	-	55	63	60	60	



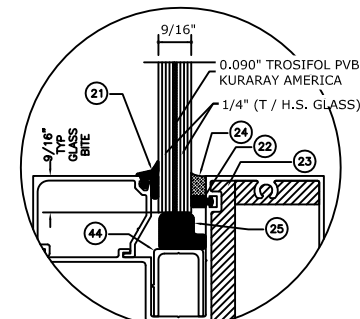
GLASS TYPE G1



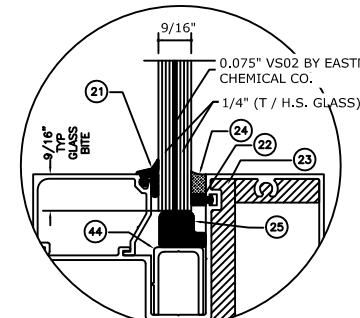
GLASS TYPE G2



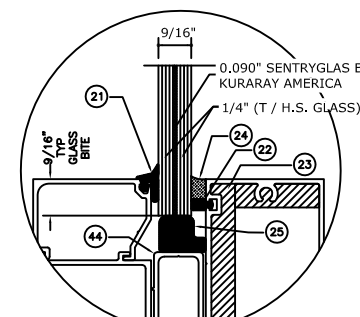
GLASS TYPE G3



GLASS TYPE G4



GLASS TYPE G5



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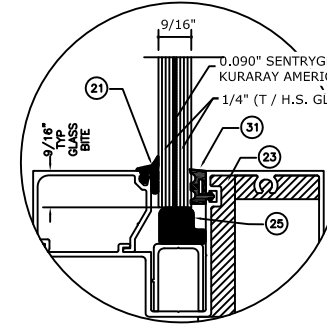
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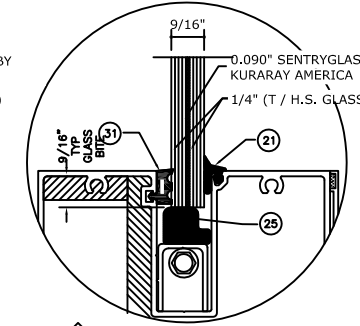
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# GLASS LOADING TABLES

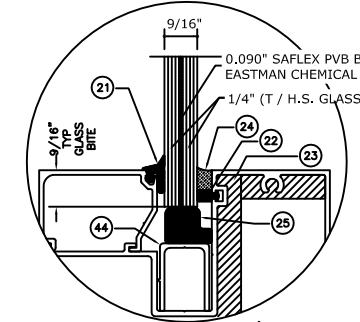
GLASS TYPES		G1		G2		G3		G4		G5	
		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
78	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	65	65	65	65	70	80	90	90
	36	60	70	65	65	65	65	70	80	90	90
	42	60	70	65	65	65	65	70	80	90	90
	48	60	70	60	60	56	56	70	80	90	90
	54	60	70	60	60	50	50	70	80	80	80
	56 1/4	60	70	60	60	-	-	70	80	76	76
	57 1/2	60	70	60	60	-	-	70	80	75	75
84	60	57	67	57	57	-	-	67	76	72	72
	66	52	60	52	52	-	-	60	69	65	65
	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	65	65	65	65	70	80	90	90
	36	60	70	65	65	65	65	70	80	90	90
	42	60	70	65	65	65	65	70	80	90	90
	48	60	70	60	60	56	56	70	80	90	90
	54	60	70	60	60	-	-	70	80	80	80
90	56 1/4	60	70	60	60	-	-	70	80	76	76
	57 1/2	60	70	59	59	-	-	69	79	75	75
	60	57	67	57	57	-	-	67	76	72	72
	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	65	65	65	65	70	80	90	90
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96	54	60	70	60	60	-	-	70	80	80	80
	56 1/4	60	70	60	60	-	-	70	80	76	76
	57 1/2	60	70	60	60	-	-	70	80	75	75
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	36	60	70	65	65	65	65	70	80	90	90
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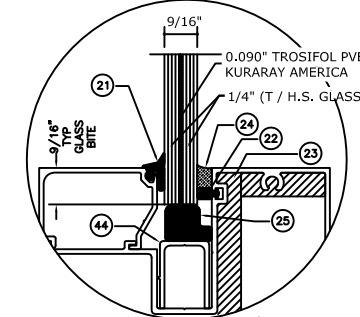
GLASS TYPE G1



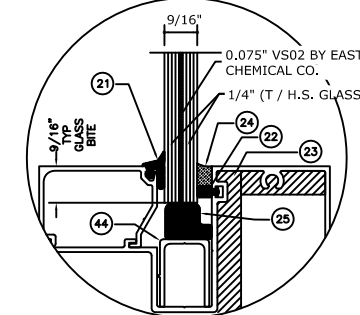
GLASS TYPE G2



GLASS TYPE G3



GLASS TYPE G4



GLASS TYPE G5

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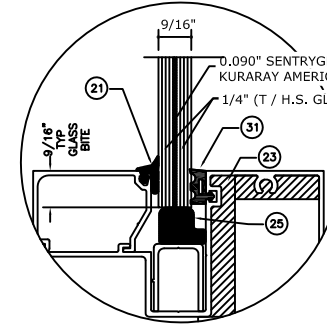
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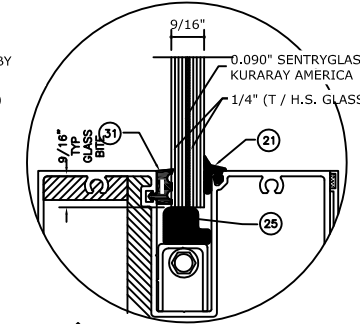
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# GLASS LOADING TABLES

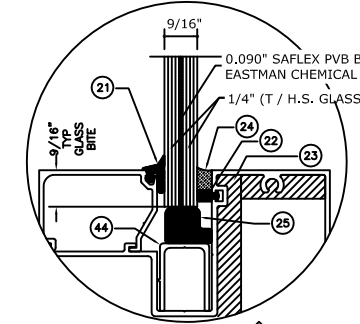
GLASS TYPES		G1		G2		G3		G4		G5	
		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
103	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	65	65	65	65	70	80	90	90
	36	60	70	65	65	65	65	70	80	90	90
	42	60	70	60	60	65	65	70	80	90	90
108	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	65	65	65	65	70	80	90	90
	36	60	70	60	60	65	65	70	80	90	90
	42	60	70	60	60	-	-	70	80	90	90
115	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	65	65	65	65	70	80	90	90
	36	60	70	60	60	65	65	70	80	90	90
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120	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	65	65	65	65	70	80	90	90
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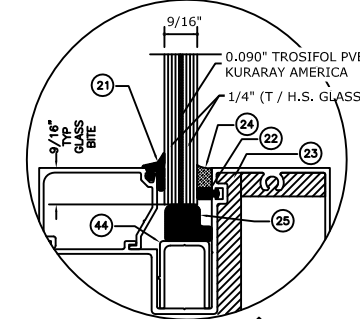
GLASS TYPE G1



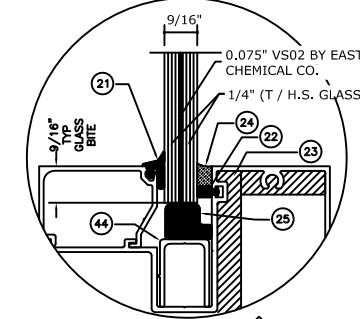
GLASS TYPE G2



GLASS TYPE G3



GLASS TYPE G4



GLASS TYPE G5

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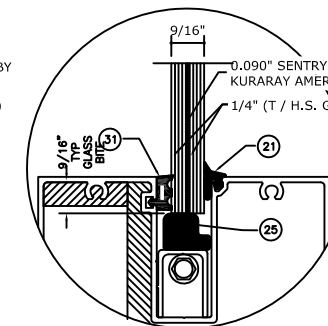
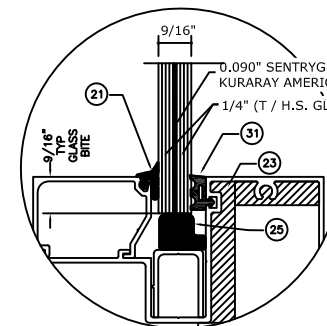
OF 34

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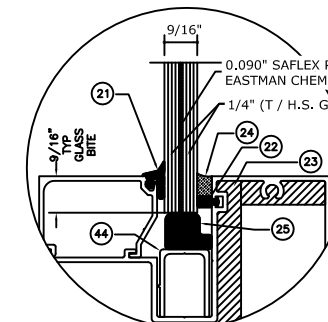
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# GLASS LOADING TABLES

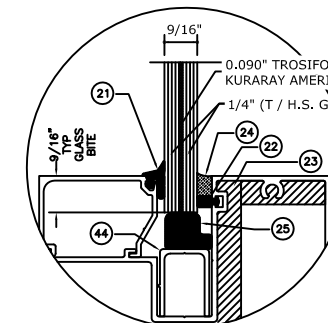
GLASS TYPES		G1		G2		G3		G4		G5	
		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
126	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	65	65	65	65	70	80	90	90
	36	60	70	60	60	-	-	70	80	90	90
	42	60	70	60	60	-	-	70	80	90	90
132	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	60	60	65	65	70	80	90	90
	36	60	70	60	60	-	-	70	80	90	90
144	24	60	70	65	65	65	65	70	80	90	90
	30	60	70	60	60	65	65	70	80	90	90
	36	60	70	60	60	-	-	70	80	90	90



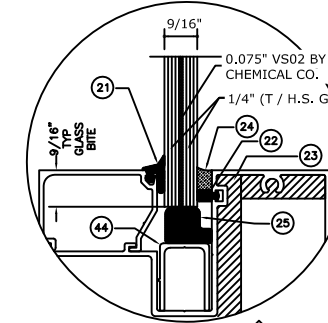
GLASS TYPE G1



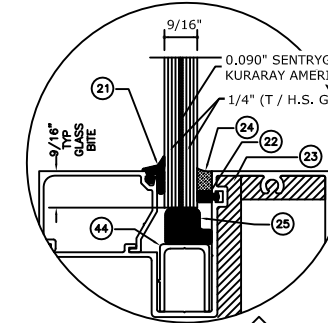
GLASS TYPE G2



GLASS TYPE G3



GLASS TYPE G4



GLASS TYPE G5

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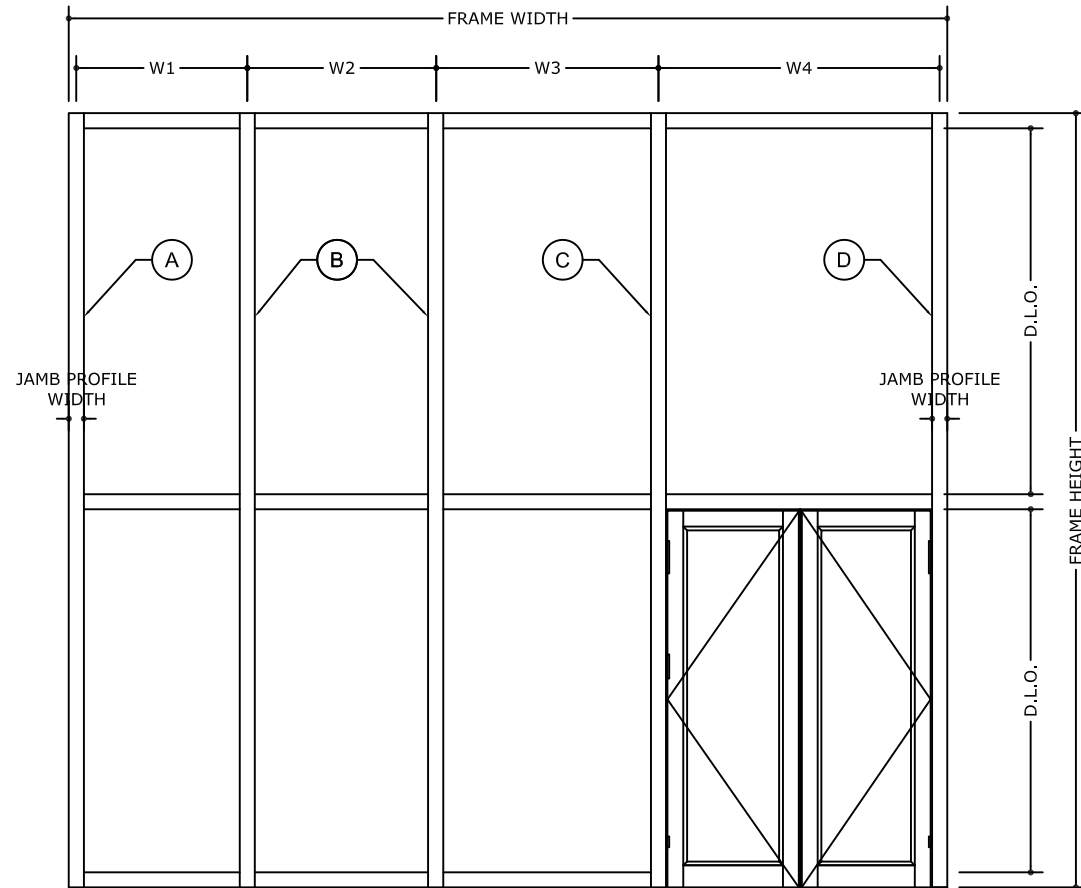
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## MULLION & JAMB LOAD DETERMINATION



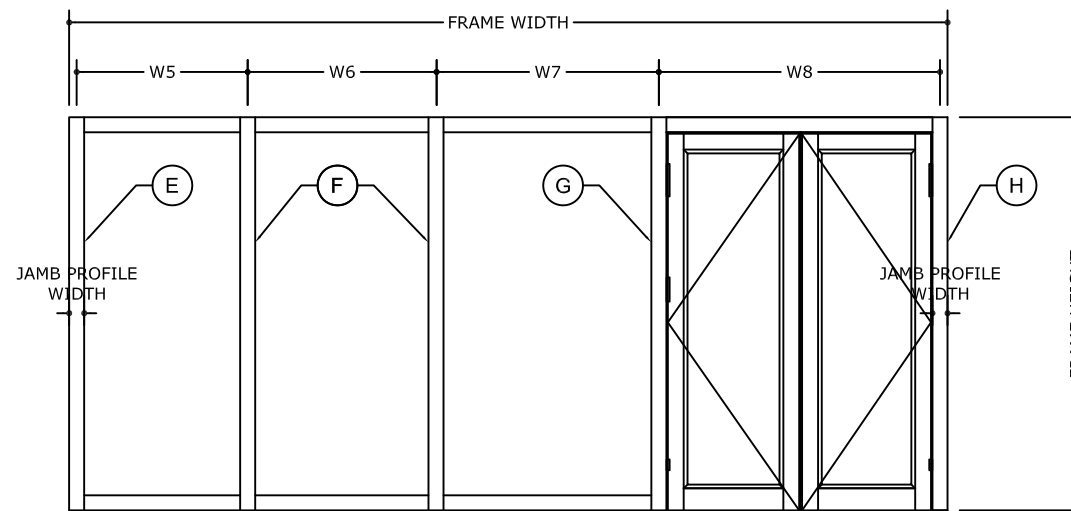
### LOAD DETERMINATION

TRIBUTARY WIDTH A =  $\frac{W1}{2} + 1/2"$  JAMB PROFILE WIDTH  
(FOR STANDARD JAMB MULLION)

TRIBUTARY WIDTH B = LARGER OF  $\frac{W1 + W2}{2}$  OR  $\frac{W2 + W3}{2}$   
(FOR STANDARD MULLION)

TRIBUTARY WIDTH C =  $\frac{W3 + W4}{2}$   
(FOR INTERMEDIATE DOOR MULLION)

TRIBUTARY WIDTH D =  $\frac{W4}{2} + 1/2"$  JAMB PROFILE WIDTH  
(FOR DOOR JAMB MULLION)



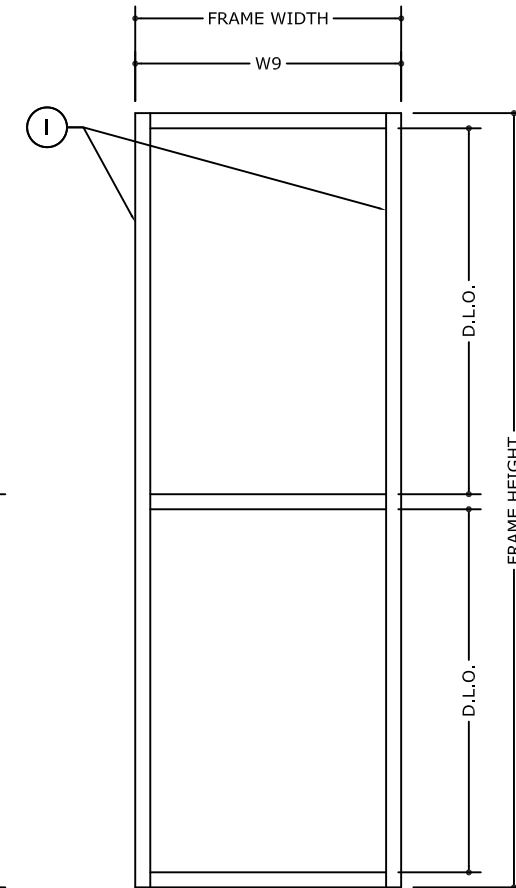
### LOAD DETERMINATION

TRIBUTARY WIDTH E =  $\frac{W5}{2} + 1/2"$  JAMB PROFILE WIDTH  
(FOR STANDARD JAMB MULLION)

TRIBUTARY WIDTH F = LARGER OF  $\frac{W5 + W6}{2}$  OR  $\frac{W6 + W7}{2}$   
(FOR STANDARD MULLION)

TRIBUTARY WIDTH G =  $\frac{W7 + W8}{2}$   
(FOR INTERMEDIATE DOOR MULLION)

TRIBUTARY WIDTH H =  $\frac{W8}{4} + 1/2"$  JAMB PROFILE WIDTH  
(FOR DOOR JAMB MULLION)



### LOAD DETERMINATION

TRIBUTARY WIDTH I =  $\frac{W9}{2}$   
(FOR STANDARD JAMB MULLION)

(A)	(E)	(I)	JAMB MULLION
(B)	(F)		STANDARD MULLION
(C)	(G)		DOOR JAMB INTERMEDIATE MULLION
(D)	(H)		DOOR JAMB MULLION

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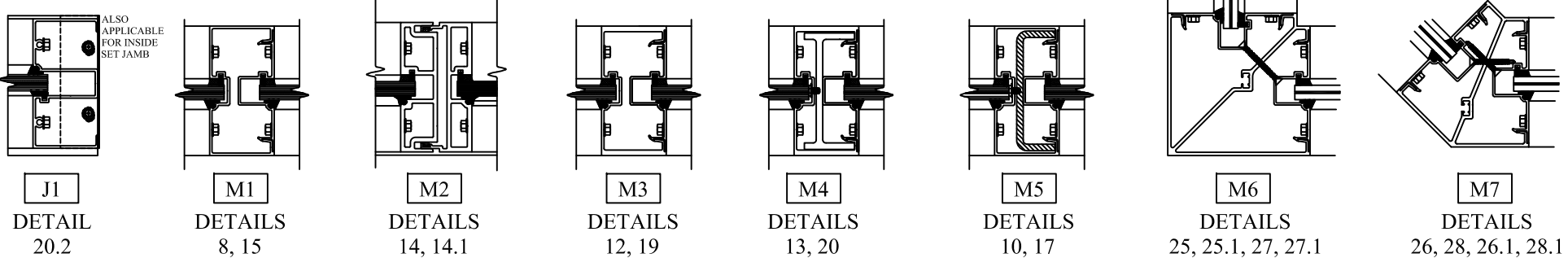
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# MULLION LOADING TABLES (P.S.F.)

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE M1		MULLION TYPE M2		MULLION TYPE M3		MULLION TYPE M4		MULLION TYPE M5		MULLION TYPE M6		MULLION TYPE M7	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
60	24	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	30	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	36	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	42	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	44.75	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	48	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	54	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	60	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	66	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	72	65	65	70	70	60	60	60	60	90	90	70	80	70	70
64	24	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	30	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	36	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	42	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	44.75	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	48	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	54	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	60	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	66	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	72	65	65	70	70	60	60	60	60	90	90	70	80	70	70
66	24	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	30	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	36	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	42	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	44.75	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	48	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	54	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	60	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	66	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	72	65	65	70	70	60	60	60	60	90	90	70	80	70	70
72	24	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	30	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	36	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	42	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	44.75	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	48	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	54	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	60	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	66	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	72	-	-	70	70	60	60	60	60	90	90	70	80	70	70
78	-	-	-	-	60	60	60	60	90	90	70	80	70	70	

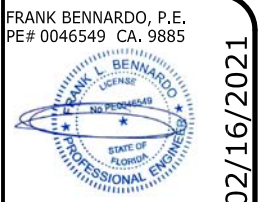
SINGLE SPAN JAMB LOADING CHART		MULLION TYPE J1	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F
36	24	90	90
	30	90	90
	36	90	90
	42	90	90
	44.75	90	90
	48	90	90
	54	90	90
	60	90	90
	66	90	90
	72	90	90
48	24	90	90
	30	90	90
	36	90	90
	42	90	90
	44.75	90	90
	48	90	90
50	24	90	90
	30	90	90
	36	90	90
	42	90	90
	44.75	90	90
	48	90	90
54	24	90	90
	30	90	90
	36	90	90
	42	90	90
	44.75	90	90
60	24	90	90
	30	90	90
	36	90	90
	42	90	90
64	24	90	90
	30	90	90
	36	90	90
66	24	90	90
	30	90	90
	36	86	86
72	24	90	90
	30	87	87
78	24	90	90
	30	79	79

- APPLICABLE FOR UN-ANCHORED JAMB CONDITION ONLY
- JAMB TRIBUTARY SHALL BE DETERMINED PER SHEET 09 FOR SINGLE UNIT OR MULTI-UNITS STOREFRONT



NOTE: FRAME WIDTHS = FRAME TRIBUTARY WIDTH

NOTE: SPANS NOT IN THIS TABLE CAN BE ADDED UNDER SITE SPECIFIC ENGINEERING AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ)



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# MULLION LOADING TABLES (P.S.F.)

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE M1		MULLION TYPE M2		MULLION TYPE M3		MULLION TYPE M4		MULLION TYPE M5		MULLION TYPE M6		MULLION TYPE M7	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
78	24	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	30	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	36	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	42	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	44.75	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	48	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	54	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	60	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	66	-	-	70	70	60	60	60	60	90	90	70	80	70	70
	72	-	-	-	-	60	60	60	60	90	90	70	80	70	70
	78	-	-	-	-	-	-	60	60	90	90	70	80	70	70
	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84	24	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	30	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	36	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	42	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	44.75	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	48	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	54	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	60	-	-	70	70	60	60	60	60	90	90	70	80	70	70
	66	-	-	-	-	60	60	60	60	90	90	70	80	70	70
	72	-	-	-	-	-	-	60	60	90	90	70	80	70	70
	78	-	-	-	-	-	-	60	60	90	90	70	80	70	70
	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-
89	24	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	30	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	36	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	42	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	44.75	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	48	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	54	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	60	-	-	-	-	60	60	60	60	90	90	70	80	70	70
	66	-	-	-	-	-	-	60	60	87	90	70	80	70	70
	72	-	-	-	-	-	-	60	60	84	90	70	80	70	70
	78	-	-	-	-	-	-	-	-	82	90	70	80	-	-
	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96	24	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	30	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	36	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	42	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	44.75	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	48	65	65	70	70	60	60	60	60	90	90	70	80	70	70
	54	-	-	70	70	60	60	60	60	86	90	70	80	70	70
	60	-	-	-	-	60	60	60	60	81	90	70	80	70	70
	66	-	-	-	-	-	-	60	60	80	90	70	80	70	70
	72	-	-	-	-	-	-	-	-	80	90	70	80	70	70
	78	-	-	-	-	-	-	-	-	79	90	70	80	-	-
	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SINGLE SPAN JAMB LOADING CHART		MULLION TYPE J1	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F
84	24	86	86
	30	90	90
89	24	81	81
96	24	74	74
102	24	69	69
108	24	65	65

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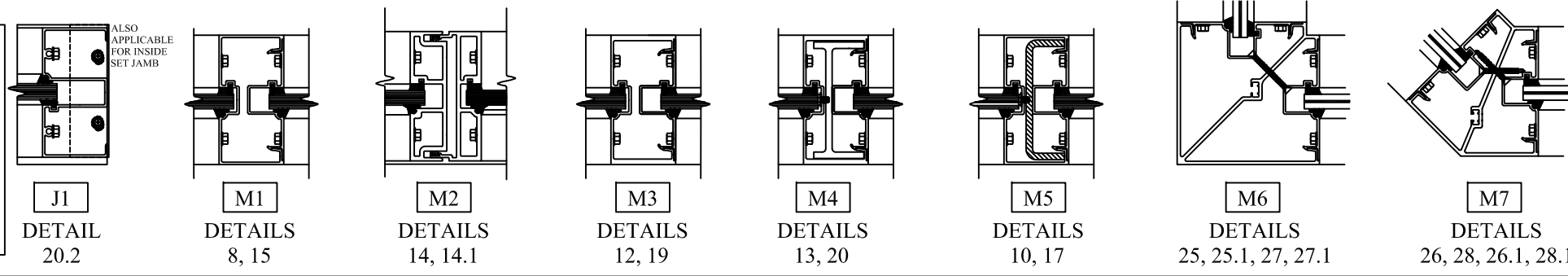
NOTE: FRAME WIDTHS = FRAME TRIBUTARY WIDTH

NOTE: SPANS NOT IN THIS TABLE CAN BE ADDED UNDER SITE SPECIFIC ENGINEERING AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ)

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• JAMB TRIBUTARY SHALL BE DETERMINED PER SHEET 09 FOR SINGLE UNIT OR MULTI-UNITS STOREFRONT

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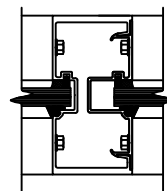


## MULLION LOADING TABLES (P.S.F.)

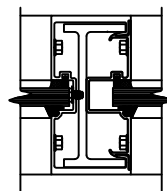
SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE	
		<b>M3</b>		<b>M4</b>		<b>M5</b>		<b>M6</b>	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
120	24	60	60	60	60	90	90	70	80
	30	60	60	60	60	90	90	70	80
	36	60	60	60	60	87	90	70	80
	42	60	60	60	60	83	90	70	80
	44.75	60	60	60	60	77	90	70	80
	48	60	60	60	60	73	90	70	80
	54	-	-	60	60	70	86	70	80
	60	-	-	-	-	60	80	70	80
126	24	-	-	60	60	90	90	70	80
	30	-	-	60	60	90	90	70	80
	36	-	-	60	60	85	90	70	80
	42	-	-	60	60	80	90	70	80
	44.75	-	-	60	60	75	90	70	80
	48	-	-	60	60	70	87	70	80
	54	-	-	59	59	65	78	70	80
	60	-	-	-	-	-	-	67	77
132	24	-	-	60	60	90	90	70	80
	30	-	-	60	60	89	90	70	80
	36	-	-	60	60	74	90	70	80
	42	-	-	60	60	64	85	70	80
	44.75	-	-	60	60	61	80	70	80
	48	-	-	60	60	57	75	70	80
	54	-	-	-	-	51	68	67	76
	60	-	-	-	-	-	-	61	70

NOTE: FRAME WIDTHS = FRAME  
TRIBUTARY WIDTH

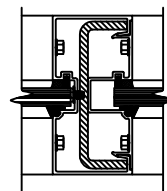
NOTE: SPANS NOT IN THIS TABLE  
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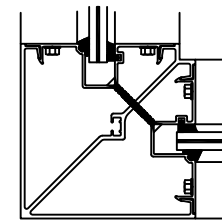
**M3**  
DETAILS  
12, 19



**M4**  
DETAILS  
13, 20



**M5**  
DETAILS  
10, 17



**M6**  
DETAILS  
25, 25.1, 27, 27.1

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02/16/2021

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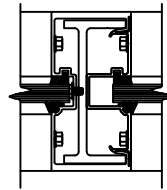
OF  
34

## MULLION LOADING TABLES (P.S.F.)

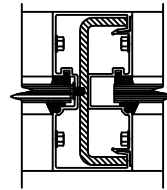
SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE		MULLION TYPE	
		<b>M4</b>		<b>M5</b>		<b>M6</b>	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
138	24	60	60	90	90	70	80
	30	60	60	81	90	70	80
	36	60	60	68	85	70	80
	42	60	60	59	74	70	80
	44.75	60	60	55	70	70	80
	48	57	57	52	65	68	77
	54	-	-	-	-	-	61
144	24	60	60	90	90	70	80
	30	60	60	74	89	70	80
	36	60	60	62	75	70	80
	42	60	60	54	65	70	80
	44.75	58	58	51	61	66	76
	48	55	55	47	57	62	71
	54	-	-	-	-	-	56

NOTE: FRAME WIDTHS = FRAME  
TRIBUTARY WIDTH

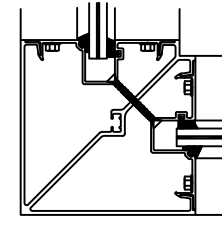
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**M4**  
DETAILS  
13, 20



**M5**  
DETAILS  
10, 17



**M6**  
DETAILS  
25, 25.1, 27, 27.1

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14

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# MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE A

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE A							
		2		4		6		8	
		MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)
36	24	90	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
	36	90	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
	48	75	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
	60	60	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
	72	50	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
	78	46	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
48	24	90	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.
	36	75	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.
	48	56	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.
	60	45	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.
	72	37	24"O.C.	75	24"O.C.	90	16"O.C.	90	16"O.C.
	78	34	24"O.C.	69	24"O.C.	90	16"O.C.	90	16"O.C.
60	24	90	30"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.
	36	60	30"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.
	48	45	30"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.
	60	36	30"O.C.	72	30"O.C.	90	20"O.C.	90	20"O.C.
	72	30	30"O.C.	60	30"O.C.	90	20"O.C.	90	20"O.C.
	78	27	30"O.C.	55	30"O.C.	83	20"O.C.	90	15"O.C.
72	24	75	36"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.
	36	50	36"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.
	48	37	36"O.C.	75	36"O.C.	90	24"O.C.	90	24"O.C.
	60	30	36"O.C.	60	36"O.C.	90	24"O.C.	90	24"O.C.
	72	25	36"O.C.	50	36"O.C.	75	24"O.C.	90	18"O.C.
	78	23	36"O.C.	46	36"O.C.	69	24"O.C.	90	18"O.C.

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# MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE A

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE A													
		2		4		6		8		10		12		16	
		MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)
84	24	64	42"O.C.	90	42"O.C.	90	42"O.C.	90	42"O.C.	90	42"O.C.	90	42"O.C.	90	42"O.C.
	36	42	42"O.C.	85	42"O.C.	90	28"O.C.	90	28"O.C.	90	28"O.C.	90	28"O.C.	90	28"O.C.
	48	32	42"O.C.	64	42"O.C.	90	28"O.C.	90	28"O.C.	90	28"O.C.	90	28"O.C.	90	28"O.C.
	60	25	42"O.C.	51	42"O.C.	77	28"O.C.	90	21"O.C.	90	21"O.C.	90	21"O.C.	90	21"O.C.
	72	21	42"O.C.	42	42"O.C.	64	28"O.C.	85	21"O.C.	90	17"O.C.	90	17"O.C.	90	17"O.C.
	78	19	42"O.C.	39	42"O.C.	59	28"O.C.	79	21"O.C.	90	17"O.C.	90	17"O.C.	90	17"O.C.
96	24	56	48"O.C.	90	48"O.C.	90	48"O.C.	90	48"O.C.	90	48"O.C.	90	48"O.C.	90	48"O.C.
	36	37	48"O.C.	75	48"O.C.	90	32"O.C.	90	32"O.C.	90	32"O.C.	90	32"O.C.	90	32"O.C.
	48	28	48"O.C.	56	48"O.C.	84	32"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.
	60	22	48"O.C.	45	48"O.C.	67	32"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.
	72	18	48"O.C.	37	48"O.C.	56	32"O.C.	75	24"O.C.	90	19"O.C.	90	19"O.C.	90	19"O.C.
	78	17	48"O.C.	34	48"O.C.	51	32"O.C.	69	24"O.C.	86	19"O.C.	90	16"O.C.	90	16"O.C.
108	24	50	54"O.C.	90	54"O.C.	90	54"O.C.	90	54"O.C.	90	54"O.C.	90	54"O.C.	90	54"O.C.
	36	33	54"O.C.	66	54"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.
	48	25	54"O.C.	50	54"O.C.	75	36"O.C.	90	27"O.C.	90	27"O.C.	90	27"O.C.	90	27"O.C.
	60	20	54"O.C.	40	54"O.C.	60	36"O.C.	80	27"O.C.	90	22"O.C.	90	22"O.C.	90	22"O.C.
	72	16	54"O.C.	33	54"O.C.	50	36"O.C.	66	27"O.C.	83	22"O.C.	90	18"O.C.	90	18"O.C.
	78	15	54"O.C.	30	54"O.C.	46	36"O.C.	61	27"O.C.	76	22"O.C.	90	18"O.C.	90	18"O.C.
120	24	45	60"O.C.	90	60"O.C.	90	60"O.C.	90	60"O.C.	90	60"O.C.	90	60"O.C.	90	60"O.C.
	36	30	60"O.C.	60	60"O.C.	90	40"O.C.	90	40"O.C.	90	40"O.C.	90	40"O.C.	90	40"O.C.
	48	22	60"O.C.	45	60"O.C.	67	40"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.
	60	18	60"O.C.	36	60"O.C.	54	40"O.C.	72	30"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.
	72	15	60"O.C.	30	60"O.C.	45	40"O.C.	60	30"O.C.	75	24"O.C.	90	20"O.C.	90	20"O.C.
	78	13	60"O.C.	27	60"O.C.	41	40"O.C.	55	30"O.C.	69	24"O.C.	83	20"O.C.	90	17"O.C.

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# MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE A

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE A													
		2		4		6		8		10		12		16	
		MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)
132	24	40	66"O.C.	81	66"O.C.	90	44"O.C.	90	44"O.C.	90	44"O.C.	90	44"O.C.	90	44"O.C.
	36	27	66"O.C.	54	66"O.C.	81	44"O.C.	90	33"O.C.	90	33"O.C.	90	33"O.C.	90	33"O.C.
	48	20	66"O.C.	40	66"O.C.	61	44"O.C.	81	33"O.C.	90	26"O.C.	90	26"O.C.	90	26"O.C.
	60	16	66"O.C.	32	66"O.C.	49	44"O.C.	65	33"O.C.	81	26"O.C.	90	22"O.C.	90	22"O.C.
	72	13	66"O.C.	27	66"O.C.	40	44"O.C.	54	33"O.C.	68	26"O.C.	81	22"O.C.	90	19"O.C.
	78	12	66"O.C.	25	66"O.C.	37	44"O.C.	50	33"O.C.	62	26"O.C.	75	22"O.C.	90	17"O.C.
144	24	37	72"O.C.	75	72"O.C.	90	48"O.C.	90	48"O.C.	90	48"O.C.	90	48"O.C.	90	48"O.C.
	36	25	72"O.C.	50	72"O.C.	75	48"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.
	48	18	72"O.C.	37	72"O.C.	56	48"O.C.	75	36"O.C.	90	29"O.C.	90	29"O.C.	90	29"O.C.
	60	15	72"O.C.	30	72"O.C.	45	48"O.C.	60	36"O.C.	75	29"O.C.	90	24"O.C.	90	24"O.C.
	72	12	72"O.C.	25	72"O.C.	37	48"O.C.	50	36"O.C.	62	29"O.C.	75	24"O.C.	90	18"O.C.
	78	11	72"O.C.	23	72"O.C.	34	48"O.C.	46	36"O.C.	57	29"O.C.	69	24"O.C.	90	18"O.C.

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# MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE B

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE B			
		2		4	
		MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)
36	24	90	18"O.C.	90	18"O.C.
	36	90	18"O.C.	90	18"O.C.
	48	90	18"O.C.	90	18"O.C.
	60	90	18"O.C.	90	18"O.C.
	72	90	18"O.C.	90	18"O.C.
	78	90	18"O.C.	90	18"O.C.
48	24	90	24"O.C.	90	24"O.C.
	36	90	24"O.C.	90	24"O.C.
	48	90	24"O.C.	90	24"O.C.
	60	90	24"O.C.	90	24"O.C.
	72	83	24"O.C.	90	24"O.C.
	78	76	24"O.C.	90	24"O.C.
60	24	90	30"O.C.	90	30"O.C.
	36	90	30"O.C.	90	30"O.C.
	48	90	30"O.C.	90	30"O.C.
	60	80	30"O.C.	90	30"O.C.
	72	66	30"O.C.	90	30"O.C.
	78	61	30"O.C.	90	30"O.C.
72	24	90	36"O.C.	90	36"O.C.
	36	90	36"O.C.	90	36"O.C.
	48	83	36"O.C.	90	36"O.C.
	60	66	36"O.C.	90	36"O.C.
	72	55	36"O.C.	90	36"O.C.
	78	51	36"O.C.	90	36"O.C.

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# MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE B

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE B					
		2		4		6	
		MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)
84	24	90	42"O.C.	90	42"O.C.	90	42"O.C.
	36	90	42"O.C.	90	42"O.C.	90	42"O.C.
	48	71	42"O.C.	90	42"O.C.	90	42"O.C.
	60	57	42"O.C.	90	42"O.C.	90	42"O.C.
	72	47	42"O.C.	90	42"O.C.	90	42"O.C.
	78	43	42"O.C.	87	42"O.C.	90	28"O.C.
96	24	90	48"O.C.	90	48"O.C.	90	48"O.C.
	36	83	48"O.C.	90	48"O.C.	90	48"O.C.
	48	62	48"O.C.	90	48"O.C.	90	48"O.C.
	60	50	48"O.C.	90	48"O.C.	90	48"O.C.
	72	41	48"O.C.	83	48"O.C.	90	32"O.C.
	78	38	48"O.C.	76	48"O.C.	90	32"O.C.
108	24	90	54"O.C.	90	54"O.C.	90	54"O.C.
	36	74	54"O.C.	90	54"O.C.	90	54"O.C.
	48	55	54"O.C.	90	54"O.C.	90	54"O.C.
	60	44	54"O.C.	88	54"O.C.	90	36"O.C.
	72	37	54"O.C.	74	54"O.C.	90	36"O.C.
	78	34	54"O.C.	68	54"O.C.	90	36"O.C.
120	24	90	60"O.C.	90	60"O.C.	90	60"O.C.
	36	66	60"O.C.	90	60"O.C.	90	60"O.C.
	48	50	60"O.C.	90	60"O.C.	90	60"O.C.
	60	40	60"O.C.	80	60"O.C.	90	40"O.C.
	72	33	60"O.C.	66	60"O.C.	90	40"O.C.
	78	30	60"O.C.	61	60"O.C.	90	40"O.C.

FRANK BENNARDO, P.E.  
PE# 0046549 CA. 9885



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# MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE B

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE B							
		2		4		6		8	
		MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)
132	24	90	66"O.C.	90	66"O.C.	90	66"O.C.	90	66"O.C.
	36	60	66"O.C.	90	66"O.C.	90	66"O.C.	90	66"O.C.
	48	45	66"O.C.	90	66"O.C.	90	66"O.C.	90	66"O.C.
	60	36	66"O.C.	72	66"O.C.	90	44"O.C.	90	44"O.C.
	72	30	66"O.C.	60	66"O.C.	90	44"O.C.	90	44"O.C.
	78	27	66"O.C.	55	66"O.C.	83	44"O.C.	90	33"O.C.
144	24	83	72"O.C.	90	72"O.C.	90	72"O.C.	90	72"O.C.
	36	55	72"O.C.	90	72"O.C.	90	72"O.C.	90	72"O.C.
	48	41	72"O.C.	83	72"O.C.	90	48"O.C.	90	48"O.C.
	60	33	72"O.C.	66	72"O.C.	90	48"O.C.	90	48"O.C.
	72	27	72"O.C.	55	72"O.C.	83	48"O.C.	90	36"O.C.
	78	25	72"O.C.	51	72"O.C.	76	48"O.C.	90	36"O.C.

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# MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE C

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE C											
		2		4		6		8		10		12	
		MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)
36	24	90	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
	36	75	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
	48	56	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
	60	45	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
	72	37	18"O.C.	75	18"O.C.	90	12"O.C.	90	12"O.C.	90	12"O.C.	90	12"O.C.
	78	34	18"O.C.	69	18"O.C.	90	12"O.C.	90	12"O.C.	90	12"O.C.	90	12"O.C.
48	24	85	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.
	36	56	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.
	48	42	24"O.C.	85	24"O.C.	90	16"O.C.	90	16"O.C.	90	16"O.C.	90	16"O.C.
	60	34	24"O.C.	68	24"O.C.	90	16"O.C.	90	16"O.C.	90	16"O.C.	90	16"O.C.
	72	28	24"O.C.	56	24"O.C.	85	16"O.C.	90	12"O.C.	90	12"O.C.	90	12"O.C.
	78	26	24"O.C.	52	24"O.C.	78	16"O.C.	90	12"O.C.	90	12"O.C.	90	12"O.C.
60	24	68	30"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.
	36	45	30"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.
	48	34	30"O.C.	68	30"O.C.	90	20"O.C.	90	20"O.C.	90	20"O.C.	90	20"O.C.
	60	27	30"O.C.	54	30"O.C.	81	20"O.C.	90	15"O.C.	90	15"O.C.	90	15"O.C.
	72	22	30"O.C.	45	30"O.C.	68	20"O.C.	90	15"O.C.	90	15"O.C.	90	15"O.C.
	78	20	30"O.C.	41	30"O.C.	62	20"O.C.	83	15"O.C.	90	12"O.C.	90	12"O.C.
72	24	56	36"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.
	36	37	36"O.C.	75	36"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.
	48	28	36"O.C.	56	36"O.C.	85	24"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
	60	22	36"O.C.	45	36"O.C.	68	24"O.C.	90	18"O.C.	90	18"O.C.	90	18"O.C.
	72	18	36"O.C.	37	36"O.C.	56	24"O.C.	75	18"O.C.	90	14"O.C.	90	14"O.C.
	78	17	36"O.C.	34	36"O.C.	52	24"O.C.	69	18"O.C.	87	14"O.C.	90	12"O.C.

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# MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE C

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE C													
		2		4		6		8		10		12		16	
		MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)
84	24	48	42"O.C.	90	42"O.C.	90	42"O.C.	90	42"O.C.	90	42"O.C.	90	42"O.C.	90	42"O.C.
	36	32	42"O.C.	64	42"O.C.	90	28"O.C.	90	28"O.C.	90	28"O.C.	90	28"O.C.	90	28"O.C.
	48	24	42"O.C.	48	42"O.C.	72	28"O.C.	90	21"O.C.	90	21"O.C.	90	21"O.C.	90	21"O.C.
	60	19	42"O.C.	38	42"O.C.	58	28"O.C.	77	21"O.C.	90	17"O.C.	90	17"O.C.	90	17"O.C.
	72	16	42"O.C.	32	42"O.C.	48	28"O.C.	64	21"O.C.	80	17"O.C.	90	14"O.C.	90	14"O.C.
	78	14	42"O.C.	29	42"O.C.	44	28"O.C.	59	21"O.C.	74	17"O.C.	89	14"O.C.	90	12"O.C.
96	24	42	48"O.C.	85	48"O.C.	90	32"O.C.	90	32"O.C.	90	32"O.C.	90	32"O.C.	90	32"O.C.
	36	28	48"O.C.	56	48"O.C.	85	32"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.	90	24"O.C.
	48	21	48"O.C.	42	48"O.C.	63	32"O.C.	85	24"O.C.	90	19"O.C.	90	19"O.C.	90	19"O.C.
	60	17	48"O.C.	34	48"O.C.	51	32"O.C.	68	24"O.C.	85	19"O.C.	90	16"O.C.	90	16"O.C.
	72	14	48"O.C.	28	48"O.C.	42	32"O.C.	56	24"O.C.	70	19"O.C.	85	16"O.C.	90	14"O.C.
	78	13	48"O.C.	26	48"O.C.	39	32"O.C.	52	24"O.C.	65	19"O.C.	78	16"O.C.	90	14"O.C.
108	24	37	54"O.C.	75	54"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.
	36	25	54"O.C.	50	54"O.C.	75	36"O.C.	90	27"O.C.	90	27"O.C.	90	27"O.C.	90	27"O.C.
	48	18	54"O.C.	37	54"O.C.	56	36"O.C.	75	27"O.C.	90	22"O.C.	90	22"O.C.	90	22"O.C.
	60	15	54"O.C.	30	54"O.C.	45	36"O.C.	60	27"O.C.	75	22"O.C.	90	18"O.C.	90	18"O.C.
	72	12	54"O.C.	25	54"O.C.	37	36"O.C.	50	27"O.C.	62	22"O.C.	75	18"O.C.	90	14"O.C.
	78	11	54"O.C.	23	54"O.C.	34	36"O.C.	46	27"O.C.	58	22"O.C.	69	18"O.C.	90	14"O.C.
120	24	34	60"O.C.	68	60"O.C.	90	40"O.C.	90	40"O.C.	90	40"O.C.	90	40"O.C.	90	40"O.C.
	36	22	60"O.C.	45	60"O.C.	68	40"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.	90	30"O.C.
	48	17	60"O.C.	34	60"O.C.	51	40"O.C.	68	30"O.C.	85	24"O.C.	90	20"O.C.	90	20"O.C.
	60	13	60"O.C.	27	60"O.C.	40	40"O.C.	54	30"O.C.	68	24"O.C.	81	20"O.C.	90	17"O.C.
	72	11	60"O.C.	22	60"O.C.	34	40"O.C.	45	30"O.C.	56	24"O.C.	68	20"O.C.	90	15"O.C.
	78	10	60"O.C.	20	60"O.C.	31	40"O.C.	41	30"O.C.	52	24"O.C.	62	20"O.C.	83	15"O.C.

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# MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE C

FRAME HEIGHT (H)	TRIBUTARY (W)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE C													
		2		4		6		8		10		12		16	
		MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)	MAX PRESSURE (PSF)	JAMBS MAX ANCHOR SPACING (IN)
132	24	30	66"O.C.	61	66"O.C.	90	44"O.C.	90	44"O.C.	90	44"O.C.	90	44"O.C.	90	44"O.C.
	36	20	66"O.C.	41	66"O.C.	61	44"O.C.	82	33"O.C.	90	26"O.C.	90	26"O.C.	90	26"O.C.
	48	15	66"O.C.	30	66"O.C.	46	44"O.C.	61	33"O.C.	77	26"O.C.	90	22"O.C.	90	22"O.C.
	60	12	66"O.C.	24	66"O.C.	37	44"O.C.	49	33"O.C.	61	26"O.C.	74	22"O.C.	90	17"O.C.
	72	10	66"O.C.	20	66"O.C.	30	44"O.C.	41	33"O.C.	51	26"O.C.	61	22"O.C.	82	17"O.C.
	78	9	66"O.C.	19	66"O.C.	28	44"O.C.	38	33"O.C.	47	26"O.C.	57	22"O.C.	76	17"O.C.
144	24	28	72"O.C.	56	72"O.C.	85	48"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.	90	36"O.C.
	36	18	72"O.C.	37	72"O.C.	56	48"O.C.	75	36"O.C.	90	29"O.C.	90	29"O.C.	90	29"O.C.
	48	14	72"O.C.	28	72"O.C.	42	48"O.C.	56	36"O.C.	70	29"O.C.	85	24"O.C.	90	21"O.C.
	60	11	72"O.C.	22	72"O.C.	34	48"O.C.	45	36"O.C.	56	29"O.C.	68	24"O.C.	90	18"O.C.
	72	9	72"O.C.	18	72"O.C.	28	48"O.C.	37	36"O.C.	47	29"O.C.	56	24"O.C.	75	18"O.C.
	78	8	72"O.C.	17	72"O.C.	26	48"O.C.	34	36"O.C.	43	29"O.C.	52	24"O.C.	69	18"O.C.

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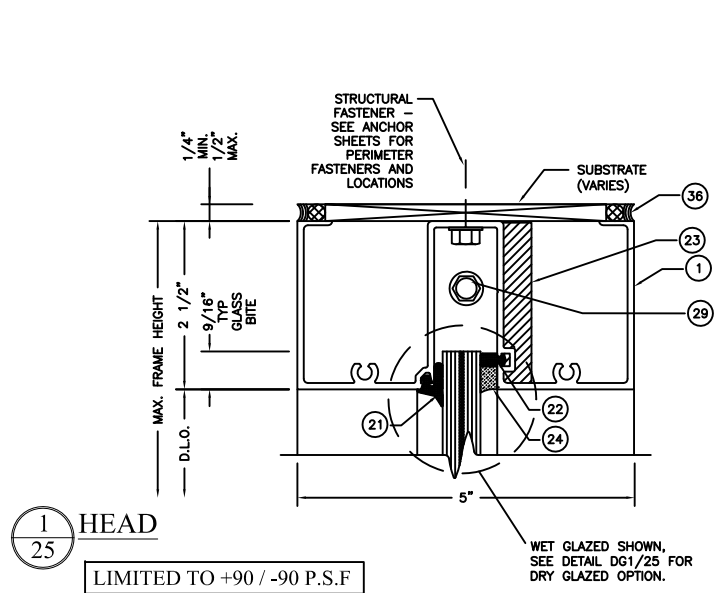
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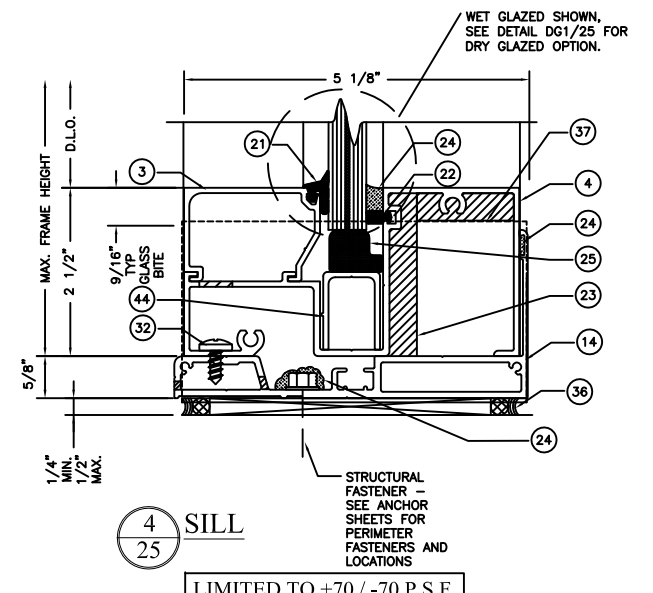
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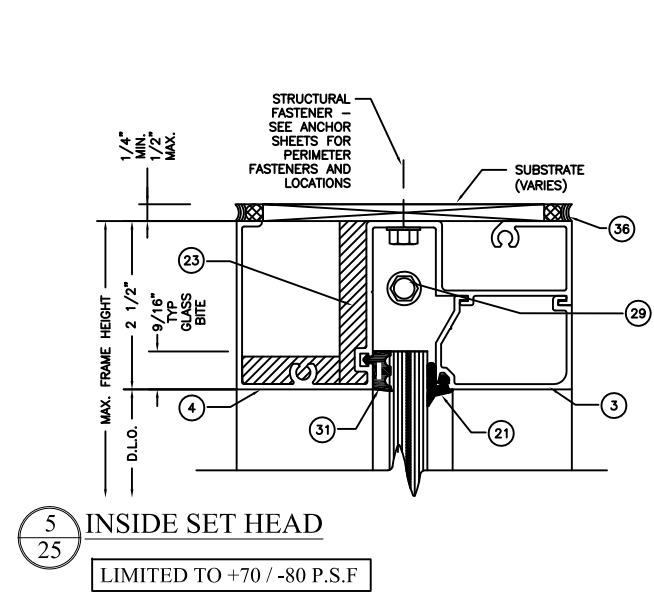
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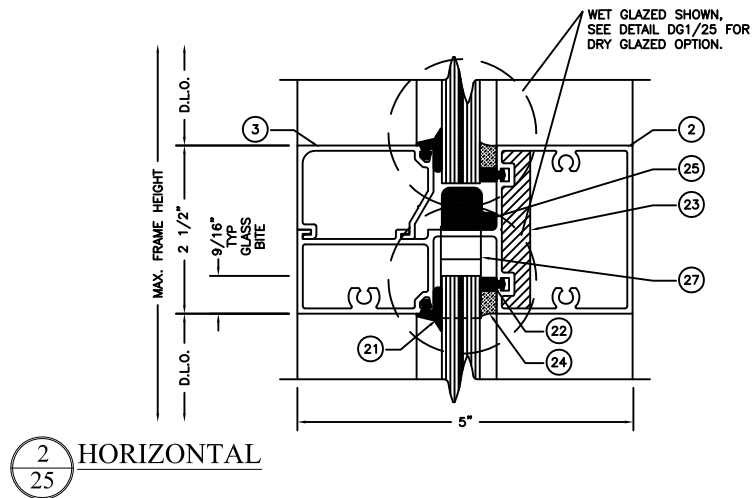
**1**  
25  
**HEAD**  
LIMITED TO +90 / -90 P.S.F



**4**  
25  
**SILL**  
LIMITED TO +70 / -70 P.S.F



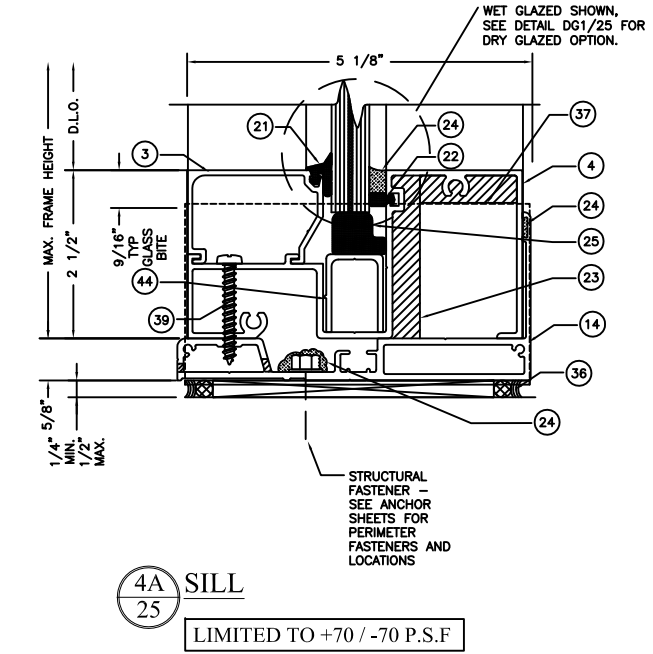
**5**  
25  
**INSIDE SET HEAD**  
LIMITED TO +70 / -80 P.S.F



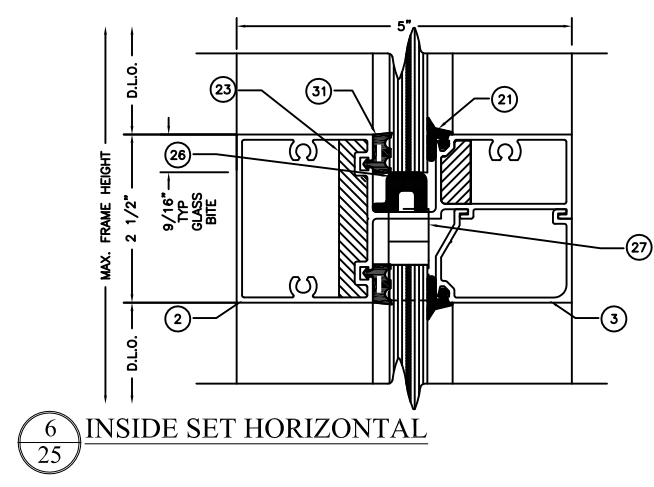
**2**  
25  
**HORIZONTAL**



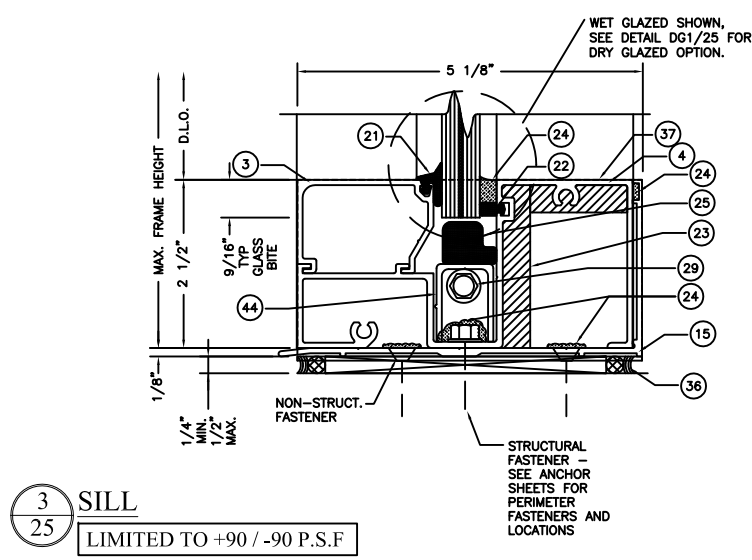
**DG1**  
25  
**DRY GLAZED OPTION**



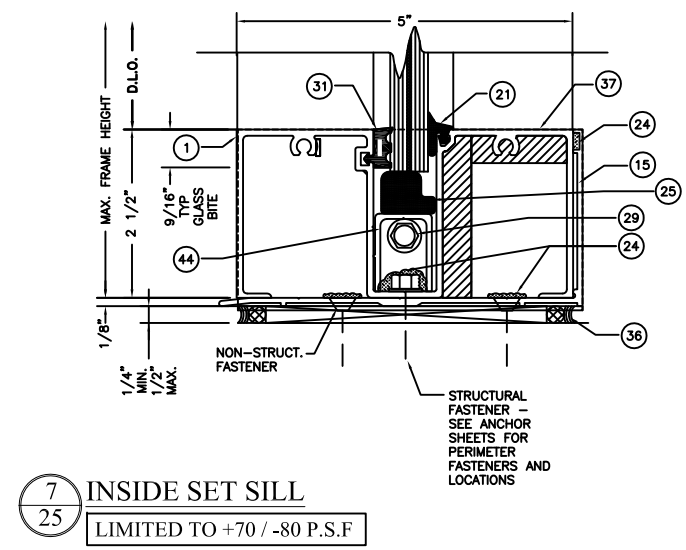
**4A**  
25  
**SILL**  
LIMITED TO +70 / -70 P.S.F



**6**  
25  
**INSIDE SET HORIZONTAL**



**3**  
25  
**SILL**  
LIMITED TO +90 / -90 P.S.F



**7**  
25  
**INSIDE SET SILL**  
LIMITED TO +70 / -80 P.S.F

LOCATE REINFORCEMENT FASTENERS  
1" FROM EACH END.

FRANK BENNARDO, P.E.  
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02/16/2021

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REMARKS	INIT	ISSUE	DATE
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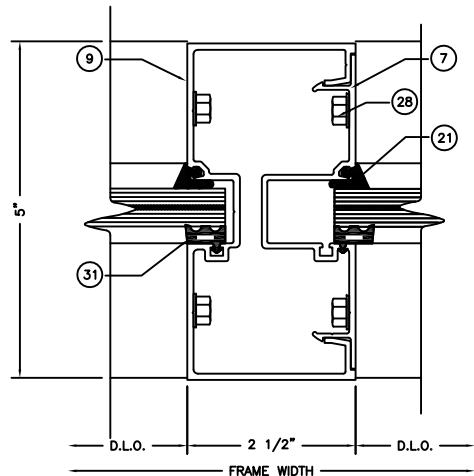
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**25**

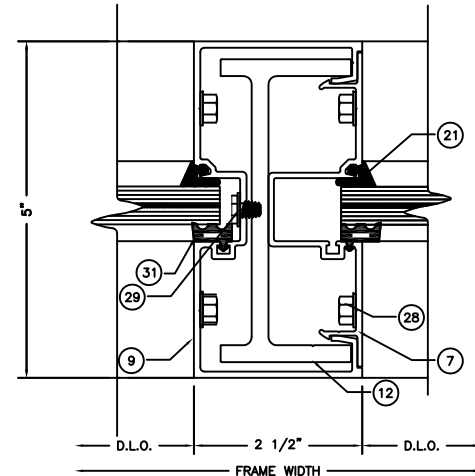




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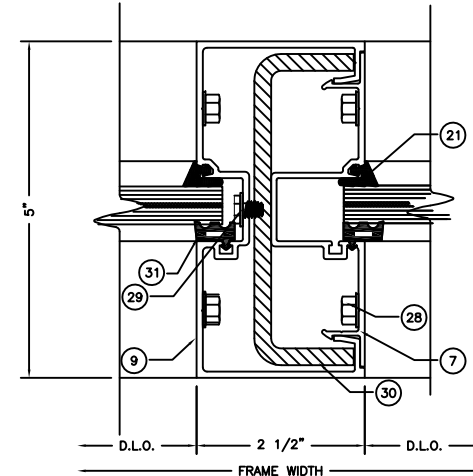


15  
27 INSIDE SET STANDARD VERTICAL  
M1

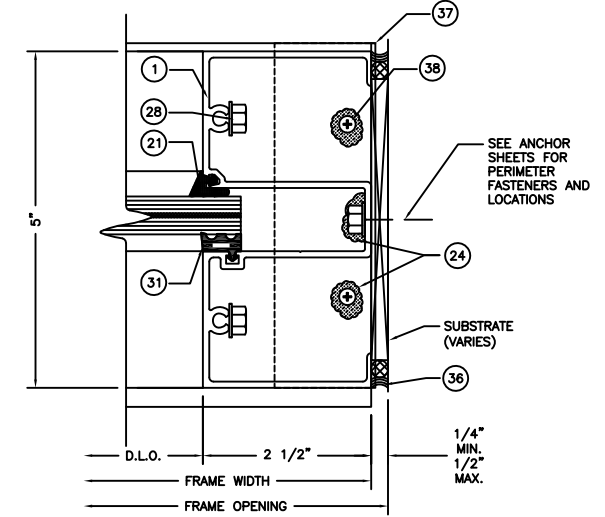


16  
27 INSIDE SET VERTICAL WITH  
ALUMINUM REINFORCEMENT

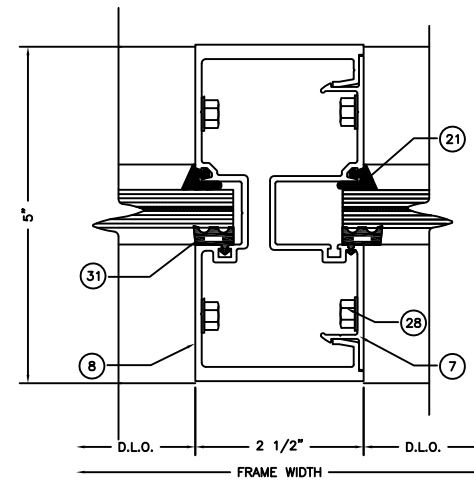
NOTE:  
MULLION CAN BE USED UNDER SITE SPECIFIC  
ENGINEERING AND SHALL BE APPROVED BY  
THE AUTHORITY HAVING JURISDICTION (AHJ).



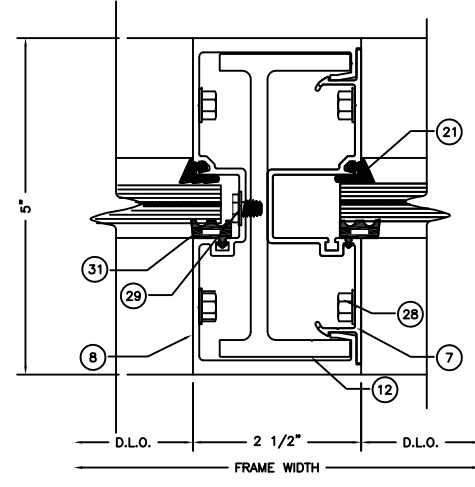
17  
27 INSIDE SET VERTICAL WITH  
STEEL REINFORCEMENT  
M5



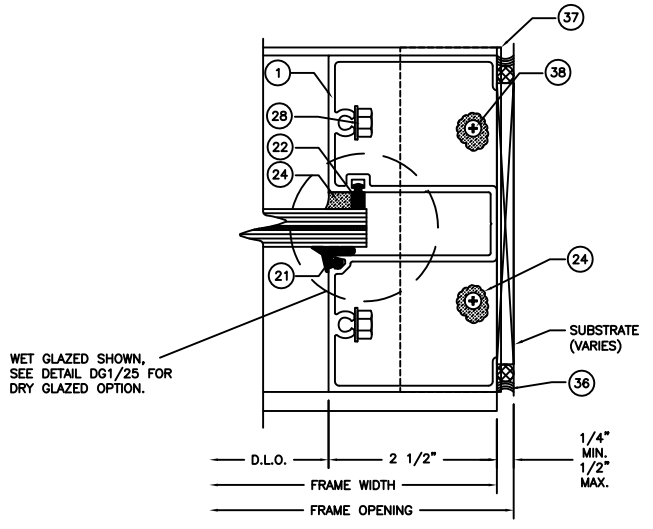
18  
27 INSIDE SET JAMB VERTICAL



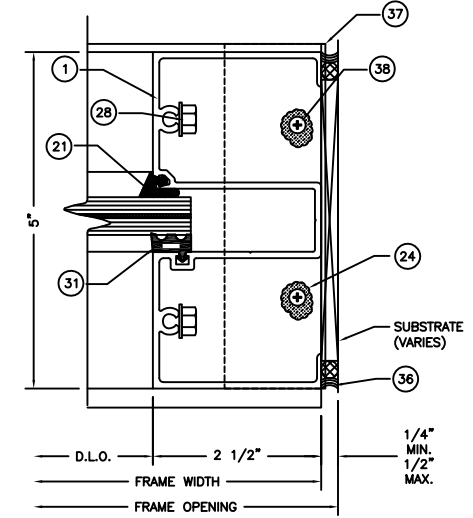
19  
27 INSIDE SET HEAVY VERTICAL  
M3



20  
27 INSIDE SET HEAVY VERTICAL WITH  
ALUMINUM REINFORCEMENT  
M4



20.1  
27 JAMB VERTICAL (NON ANCHORED)



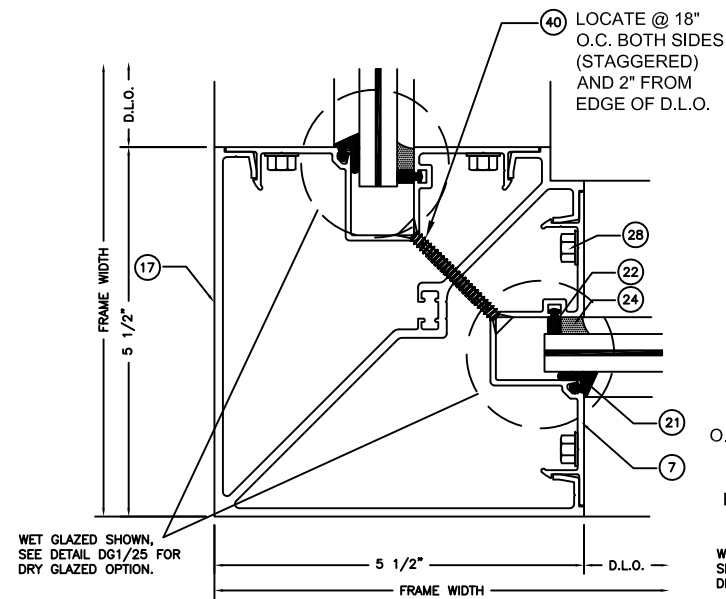
20.2  
27 INSIDE SET JAMB VERTICAL  
(NON ANCHORED)-J1

LOCATE REINFORCEMENT FASTENERS  
1" FROM EACH END.

REMARKS	INIT	ISSUE	DATE
	JEM	AJP	09/17/20

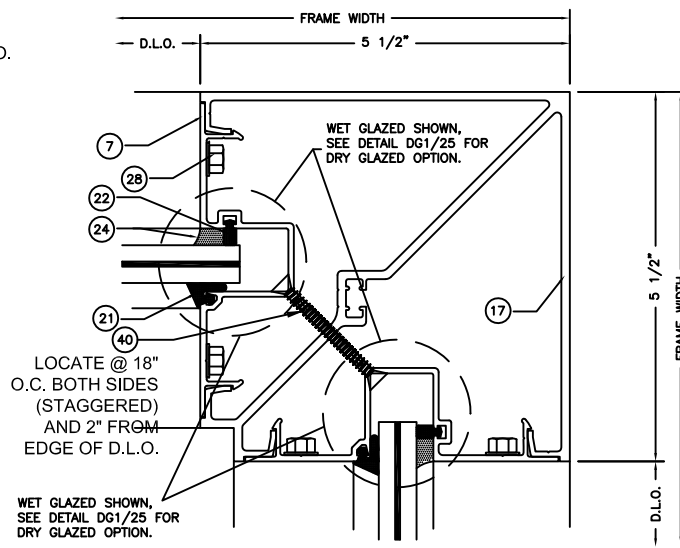


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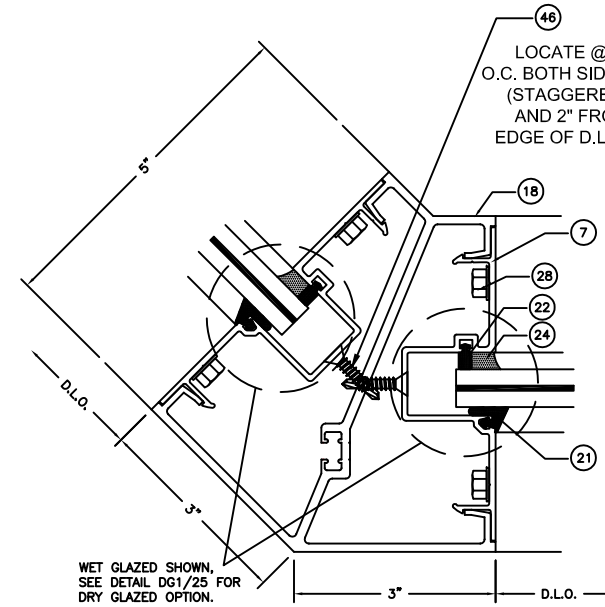
25 90° CORNER POST  
29 M6

NOTE: APPROVED FOR USE OUTSIDE HVHZ



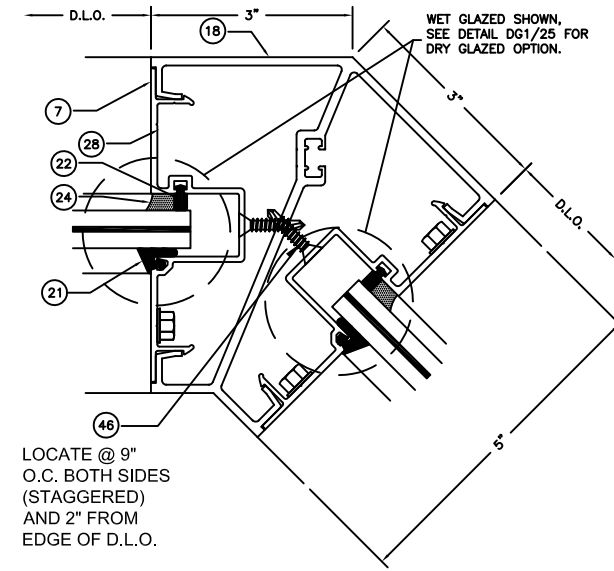
27 90° INSIDE CORNER POST  
29 M6

NOTE: APPROVED FOR USE OUTSIDE HVHZ



26 135° CORNER POST  
29 M7

NOTE: APPROVED FOR USE OUTSIDE HVHZ



28 135° INSIDE CORNER POST  
29 M7

NOTE: APPROVED FOR USE OUTSIDE HVHZ

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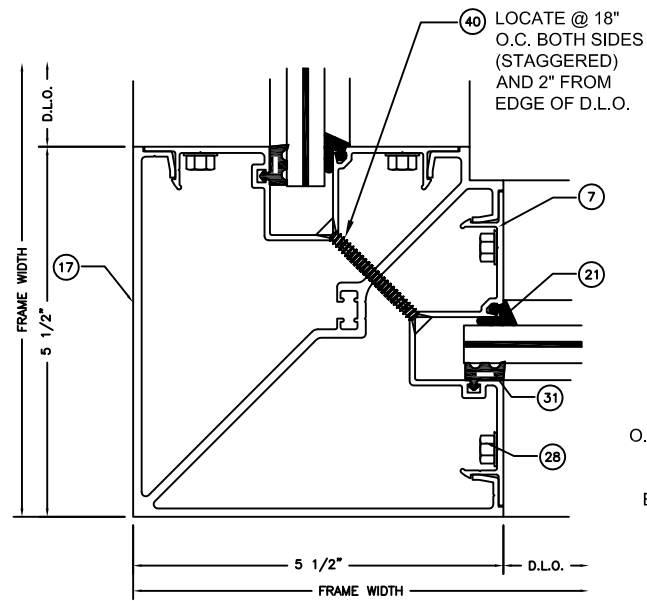
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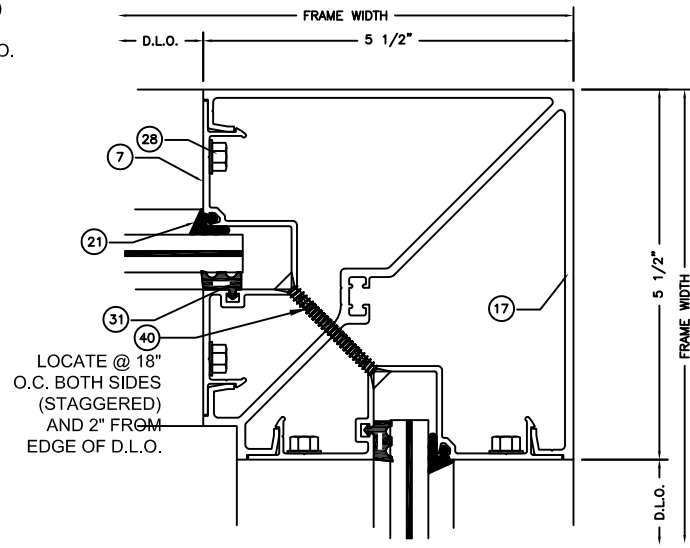
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29 OF 34

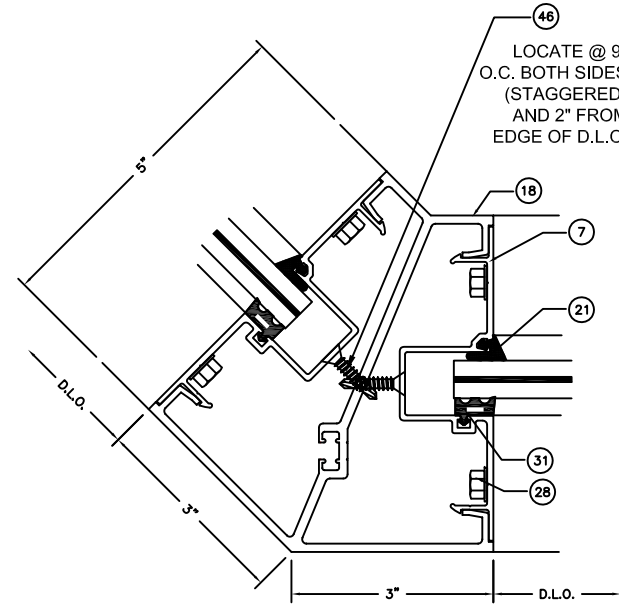
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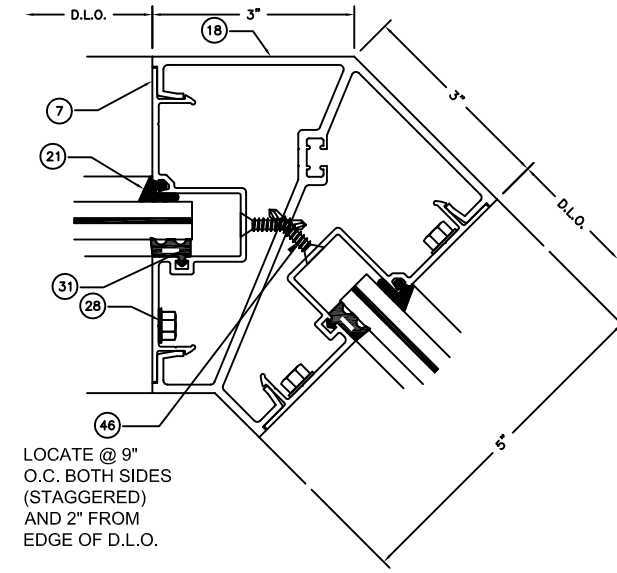
**25.1**  
**30** INSIDE SET 90° CORNER POST  
M6  
NOTE: APPROVED FOR USE  
OUTSIDE HVHZ



**27.1**  
**30** INSIDE SET 90° INSIDE CORNER POST  
M6  
NOTE: APPROVED FOR USE  
OUTSIDE HVHZ



**26.1**  
**30** INSIDE SET 135° CORNER POST  
M7  
NOTE: APPROVED FOR USE  
OUTSIDE HVHZ



**28.1**  
**30** INSIDE SET 135° INSIDE CORNER POST  
M7  
NOTE: APPROVED FOR USE  
OUTSIDE HVHZ

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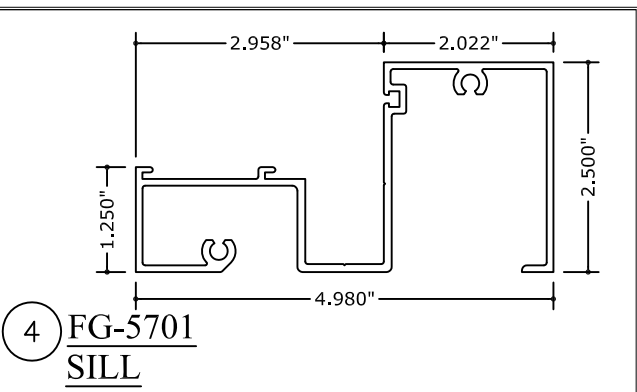
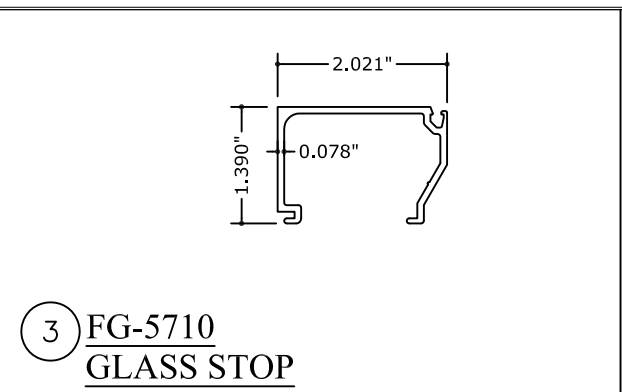
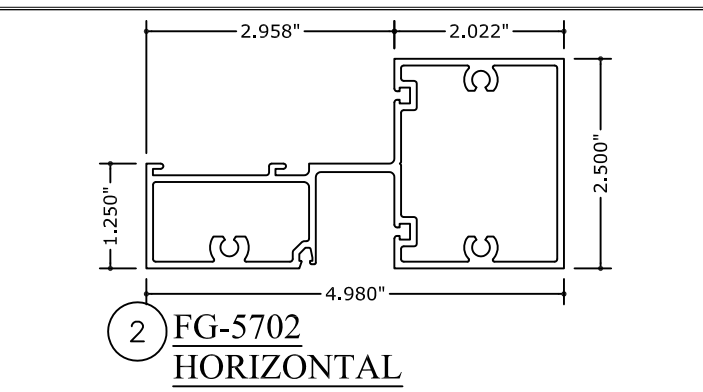
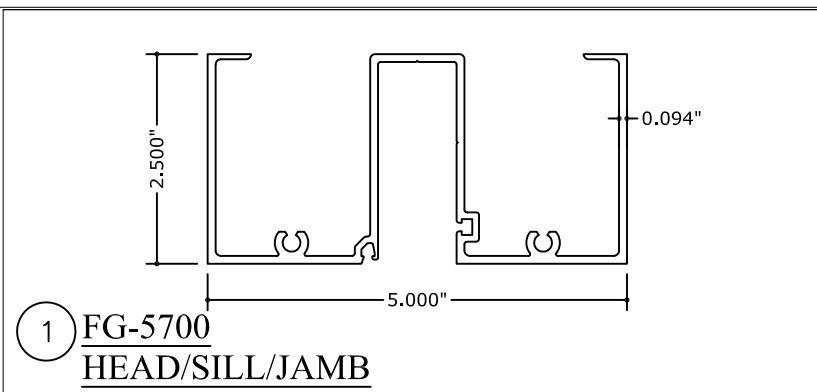
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30 OF 34

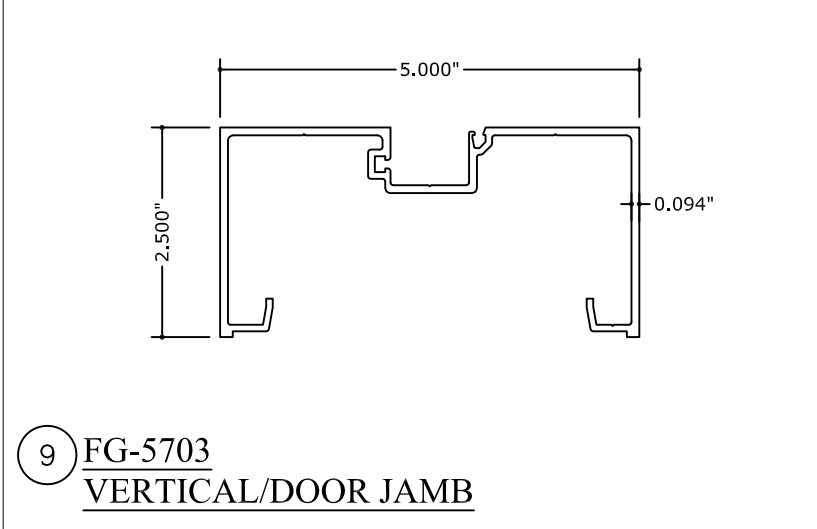
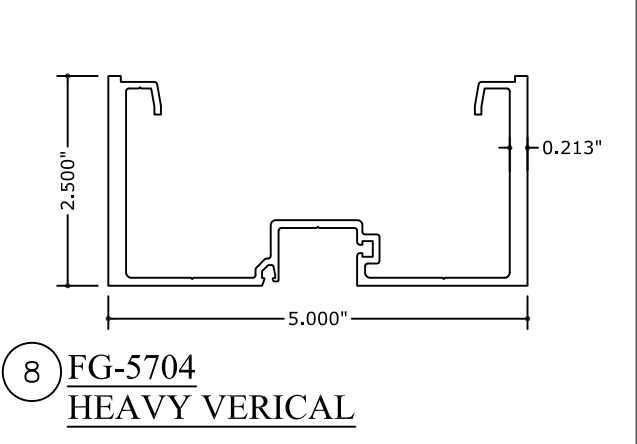
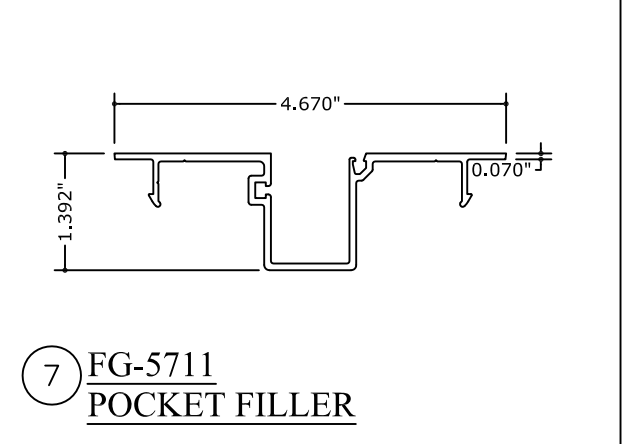
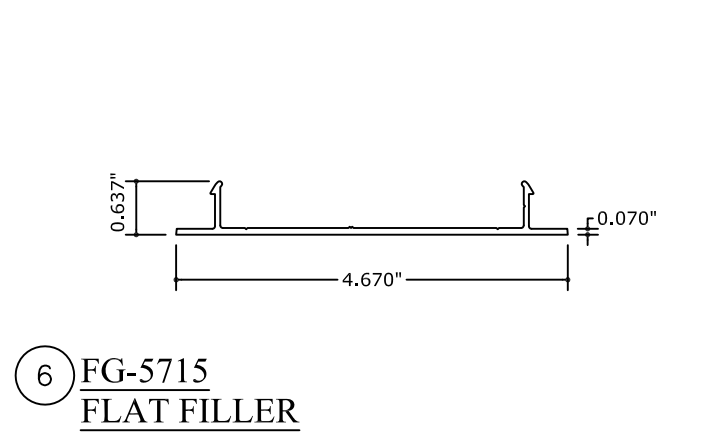
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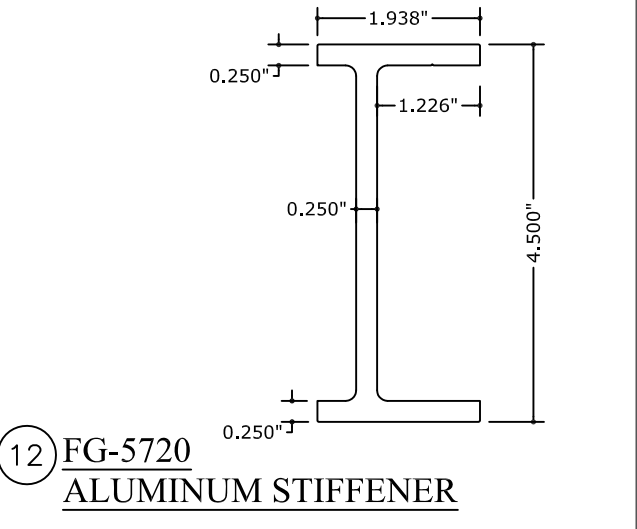


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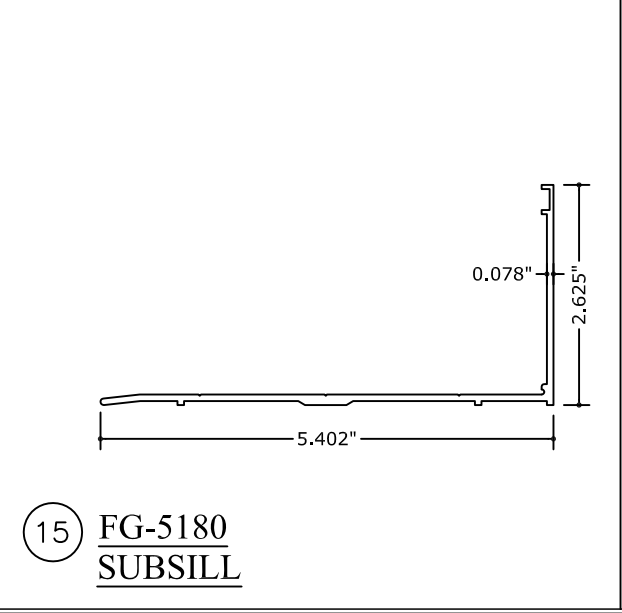
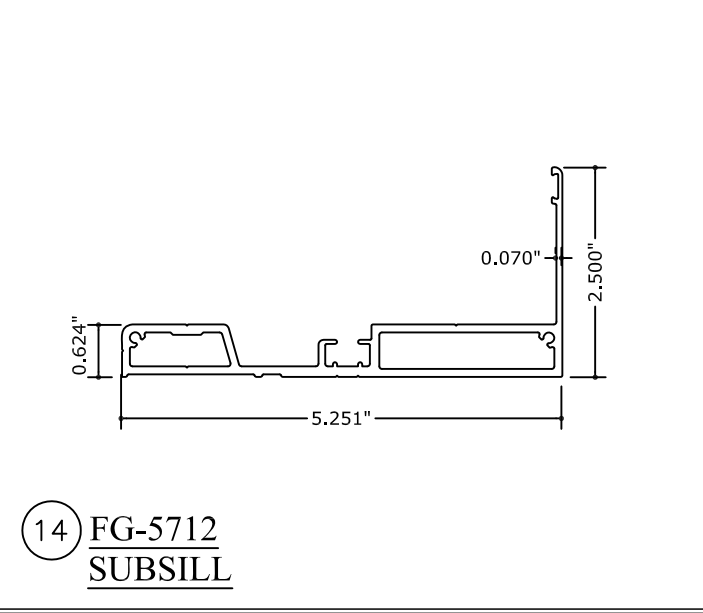


NOT USED

NOT USED



NOT USED



NOT USED

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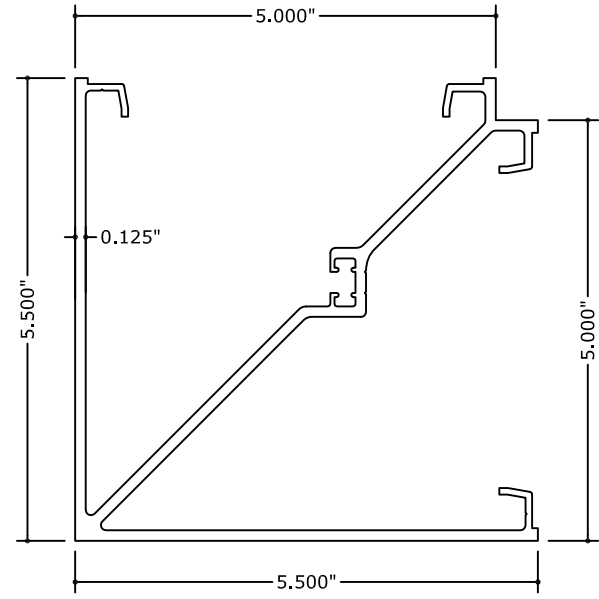
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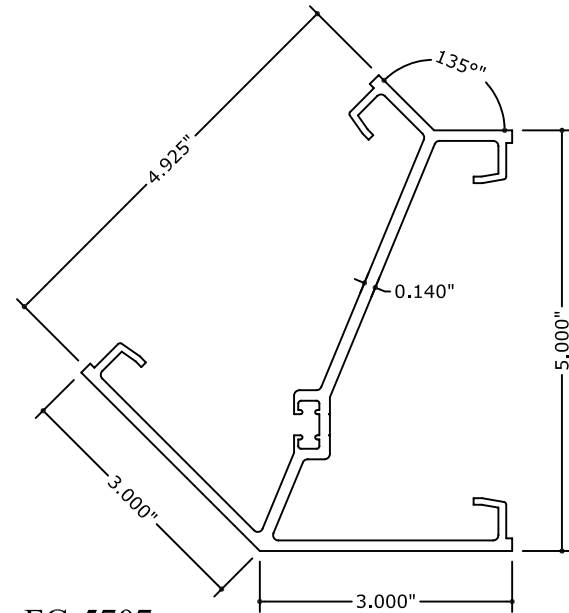
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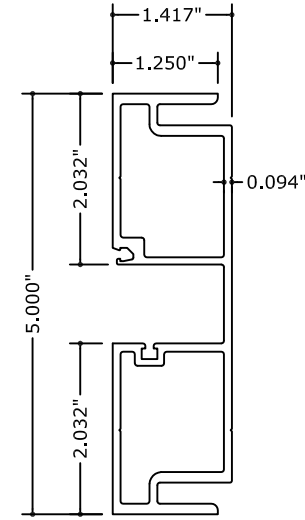
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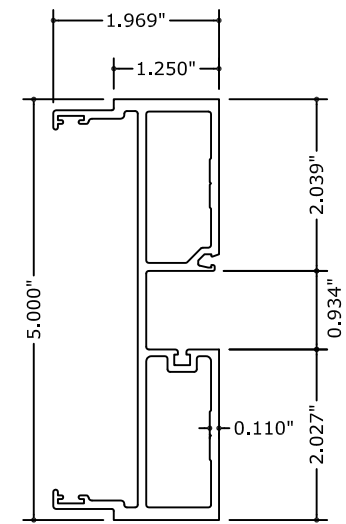
17 FG-5706  
90 DEGREE CORNER POST



18 FG-5707  
135 DEGREE CORNER POST



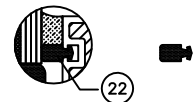
19 FG-5724  
EXPANSION MULLION



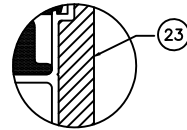
20 FG-5725  
EXPANSION MULLION



21 FG-5730  
EXTERIOR GLAZING GASKET



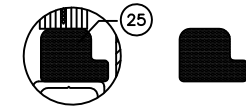
22 FG-5731  
SPACER GASKET



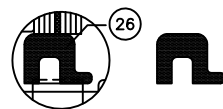
23 SM5601  
JOINT TAPE



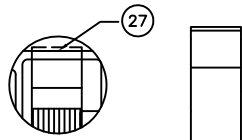
24 DOWSIL 995  
SEALANT



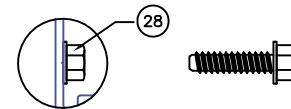
25 FG-5733  
SETTING BLOCK



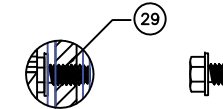
26 FG-5734  
SETTING BLOCK



27 FG5790-01  
WATER DIVERTER



28 FS-8  
JOINT FASTENER



29 FS-354  
REINFORCEMENT FASTENER

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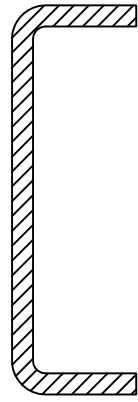
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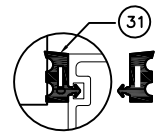
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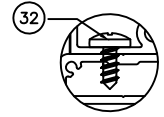
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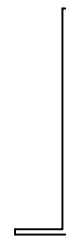
30 RS-30  
STEEL REINFORCEMENT



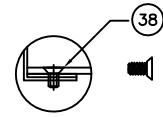
31 FG-5732  
DRY GLAZE GASKET



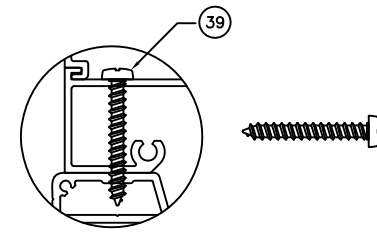
32 FS-27  
FASTENER



37 AN-101-01  
SILL END DAM



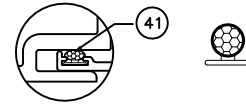
38 FS-23  
SILL END DAM  
FASTENER



39 FS-229  
SILL-SUBSILL FASTENER



40 FS-59  
CORNER ASSEMBLY FASTENER



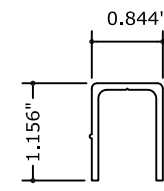
41 CW-998  
EXPANSION MULL GASKET



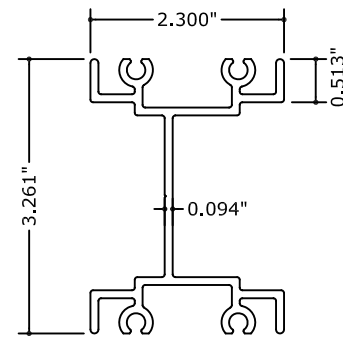
42 FS-96  
SHEAR BLOCK  
FASTENER



43 FS-56  
FASTENER



44 FG-5721-01  
SETTING CHAIR



45 FG-5714-01  
SHEAR BLOCK



46 FS-58  
FASTENER



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### BILL OF MATERIALS

ITEM NO.	P/N	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
<b>ALUMINUM PARTS</b>						
1	FG-5700	HEAD/SILL/JAMB	2.500 x 5.000 x 0.094	6063-T6 ALUMINUM	OBE	
2	FG-5702	HORIZONTAL MULLION	2.500 x 4.980 x 0.094	6063-T6 ALUMINUM	OBE	
3	FG-5710	GLASS STOP	1.250 x 2.021 x 0.078	6063-T6 ALUMINUM	OBE	
4	FG-5701	HEAD/SILL	2.500 x 4.980 x 0.094	6063-T6 ALUMINUM	OBE	
	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
6	FG-5715	FLAT FILLER	0.636 x 4.670 x 0.080	6063-T6 ALUMINUM	OBE	RUNS FULL LENGTH
7	FG-5711	POCKET FILLER	0.681 x 4.670 x 0.080	6063-T6 ALUMINUM	OBE	
8	FG-5704	HEAVY MULLION	2.500 x 5.000 x 0.213	6063-T6 ALUMINUM	OBE	
9	FG-5703	VERTICAL MULLION / DOOR JAMB	2.500 x 5.000 x 0.094	6063-T6 ALUMINUM	OBE	
12	FG-5720	ALUMINUM STIFFENER	4.500 x 1.9375 x 0.250	6063-T6 ALUMINUM	OBE	MAXIMUM LENGTH OF 144"
	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
14	FG-5712	5/8" SUBSILL	5.276 x 2.750 x 0.100	6063-T6 ALUMINUM	OBE	
15	FG-5180	1/8" SUBSILL	5.402 x 2.625 x 0.080	6063-T6 ALUMINUM	OBE	
	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
17	FG-5706	90° CORNER MULLION	5.500 x 5.500 x 0.125	6063-T6 ALUMINUM	OBE	
18	FG-5707	135° CORNER MULLION	3.000 x 5.000 x 0.125	6063-T6 ALUMINUM	OBE	
19	FG-5724	EXPANSION MULLION	1.420 X 5.000 X .094	6063-T6 ALUMINUM	OBE	
20	FG-5725	EXPANSION MULLION	1.970 X 5.000 X .094	6063-T6 ALUMINUM	OBE	
<b>ACCESSORY PARTS</b>						
21	FG-5730	EXTERIOR GLAZING GASKET	0.120 SPACE	EPDM	VARIES	
22	FG-5731	SPACER GASKET	0.250 SPACE	EPDM	VARIES	
23	SM5601	JOINT SEALANT TAPE	0.500 x 0.125 x VARIES	POLYISOBUTYLENE	SCHNEE-MOOREHEAD	
24	DOWSIL 995	STRUCTURAL SEALANT	--	SILICONE	DOW CHEMICAL COMPANY	FOR WET GLAZING AND FRAME ASSEMBLY
25	FG-5733	SETTING BLOCK	0.313 x 1.250 x 4.000	EPDM	VARIES	2 PER LITE
26	FG-5734	SETTING BLOCK	0.800 x 0.548 x 4.000	EPDM	VARIES	2 PER LITE, FOR INSIDE GLAZED INTERM. HORIZ.
27	FG5790-01	WATER DIVERTER	1.358 x 0.594 x 0.050	INJECTION MOLDED PLASTIC	OBE	AT EACH END OF INTERMEDIATE HORIZONTALS
28	FS-8	FASTENER	#14 x 1" HHSTS	STEEL (DACROMET)	VARIES	SCREW SPLINE SCREW
29	FS-354	FASTENER	¼"-20 x 3/8" HH TYPE F	STEEL (GEOMET)	VARIES	REINFORCEMENT SCREW, 1" FROM EACH END
30	RS-30	STEEL REINFORCEMENT	4.562 x 1.250 x 0.250	STEEL	VARIES	ASTM A-36
31	FG-5732	DRY GLAZE GASKET	0.250 SPACE	EPDM	VARIES	
32	FS-27	FASTENER (SILL-TO-SUBSILL)	#12 x 1/2" PPH SMS	STEEL (DACROMET)	VARIES	4 FASTENERS PER SIDE (2" FROM MULLION & 2" ON CENTER, 4 PER SIDE).
	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
36	DOWSIL 795	PERIMETER SEALANT	--	SILICONE	DOW CHEMICAL COMPANY	
37	AN-101-01	SILL FLASHING END DAM	2.688 x 0.750 x 0.063 x 5.125	6063-T6 ALUMINUM	OBE	
38	FS-23	FASTENER	#6 x 3/8" PPH	STEEL (ZINC PLATED)	VARIES	ATTACH END DAM TO SUBSILL
39	FS-229	FASTENER (SILL-TO-SUBSILL)	#14 x 1-1/2" PPH	STEEL (GEOMET)	VARIES	4 FASTENERS PER SIDE (2" FROM MULLION & 2" ON CENTER, 4 PER SIDE).
40	FS-59	FASTENER	#10 x 1-1/2" PFH SMS	STEEL (GEOMET)	VARIES	USED AT 90° CORNERS
41	CW-998	BULB GASKET		FOAM-TITE BULB	AMESBURY	EXPANSION MULLION
42	FS-96	FASTENER	#12 x 2-1/2" PPH SMS	STEEL (GEOMET)	VARIES	SHEAR BLOCK SCREW
43	FS-56	FASTENER	#10 x 1/2" UCPFH	STAINLESS STEEL	VARIES	CRIPPLED SHEAR BLOCK
44	FG-5721-01	SETTING CHAIR	1.156 x 0.844 x 0.078	6063-T6 ALUMINUM	OBE	
45	FG-5714-01	SHEAR BLOCK	2.300 x 3.261 x 0.094	6063-T6 ALUMINUM	OBE	2" IN LENGTH
46	FS-58	FASTENER	#10x 1" PFH SMS	STEEL GEOMET	VARIES	USED AT 135° CORNERS

FRANK BENNARDO, P.E.  
PE# 0046549 CA. 9885



02/16/2021

**FL#20665.1**

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34

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