



08/31/2021



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Oldcastle BuildingEnvelope®

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 Phn. (972) 551-6100

FG-5750T STORMMAX® THERMAL IGU IMPACT STOREFRONT SYSTEM
 WET AND DRY GLAZED

REMARKS	DATE
INIT ISSUE	03/16/21

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21-38380

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01

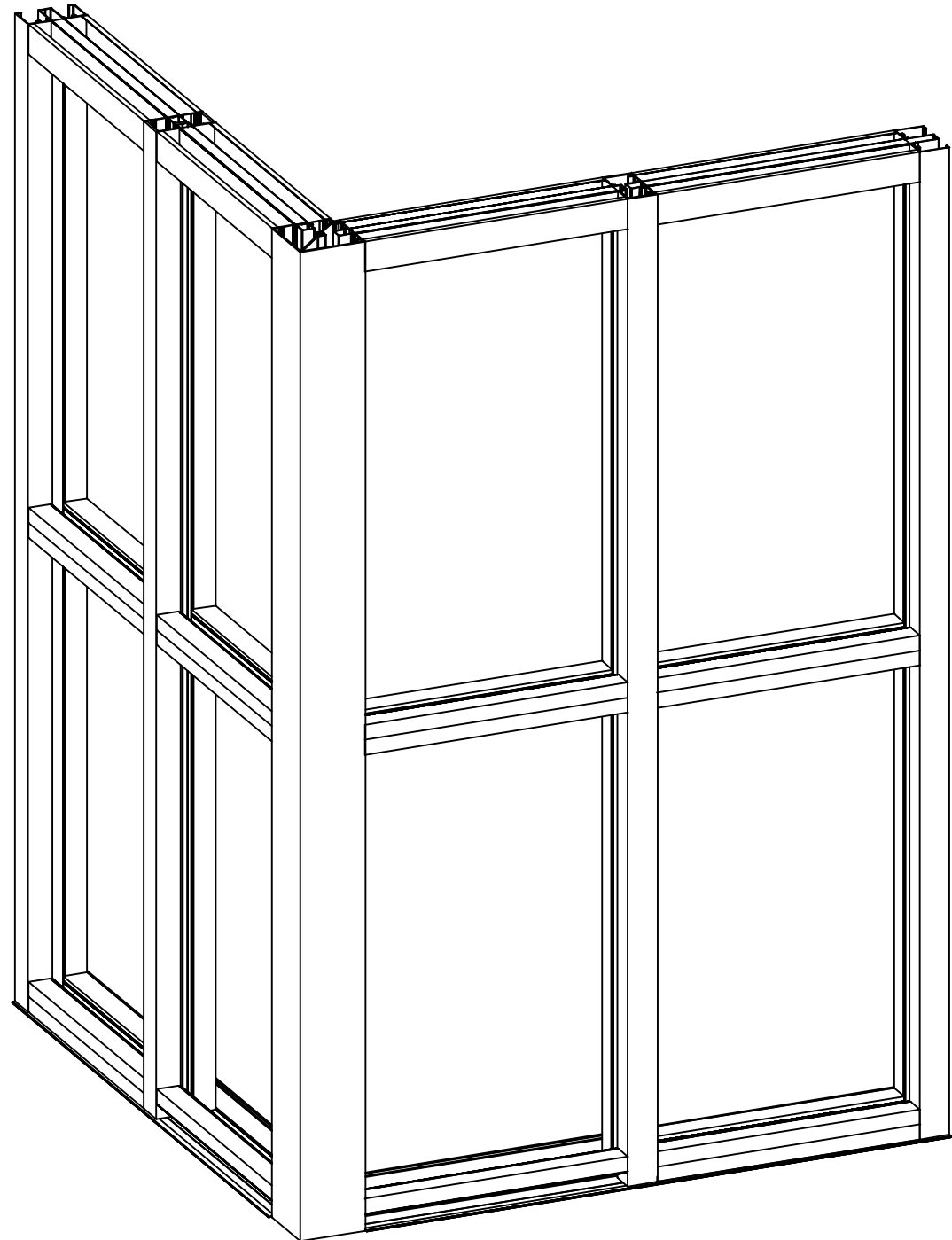
Oldcastle BuildingEnvelope®

FG-5750T STORMMAX® STOREFRONT

THERMAL IGU IMPACT STOREFRONT SYSTEM

LARGE AND SMALL MISSILE (WET AND DRY GLAZED)

FOR HIGH VELOCITY HURRICANE ZONES



GENERAL NOTES:

1. THIS SYSTEM HAS BEEN EVALUATED FOR COMPLIANCE WITH WIND LOAD SPECIFIED IN CHAPTER 3 OF THE INTERNATIONAL RESIDENTIAL CODE 2018 AND SECTION 1609 OF THE INTERNATIONAL BUILDING CODE 2018. SYSTEM HAS BEEN TESTED, EVALUATED AND DESIGNED PER THE FOLLOWING STANDARDS:
 - a. ASTM E330-14, E331-00, E283-04
 - b. TAS 201 / 202 / 203
 - c. AAMA 501-5
 - d. ANSI Z97.1-2015 (400 ft-lb. IMPACT)
 - e. ALUMINUM DESIGN MANUAL 2015, ASCE 7-16
2. SITE-SPECIFIC REQUIRED DESIGN PRESSURES SHALL BE CALCULATED BY A LICENSED PROFESSIONAL ENGINEER FOR USE WITH THIS DOCUMENT PER CURRENT ADOPTED EDITION OF ASCE 7 AND WITH LOCAL CODE REQUIREMENTS.
3. THIS PRODUCT HAS BEEN DESIGNED FOR USE FOR ALL AREAS WITHIN TEXAS AS DEFINED BY THE TEXAS DEPARTMENT OF INSURANCE.
4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
5. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd-1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
6. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
8. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBER FORM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
9. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
10. ENGINEER SEAL AFFIXED HERE TO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
11. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
12. PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
13. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
14. SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
15. PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING AND ANY OTHER TDI REQUIREMENTS:
 Oldcastle BuildingEnvelope®
 803 AIRPORT ROAD
 TERRELL, TEXAS 75160

SHEET INDEX

# SHEET	DESCRIPTION
01	COVER SHEET
02-03	ELEVATIONS
04-05	GLAZING DETAILS
06-11	GLASS LOADING TABLES
12	MULLION & JAMB LOADING DETERMINATION
13-16	MULLION LOADING CHARTS
17-26	FASTENER SCHEDULE AND ANCHOR CHARTS
27-33	STANDARD FRAMING DETAILS
34-36	PART DRAWINGS
37-38	BILL OF MATERIALS
38	TOTAL

DESIGN PRESSURE

WATER INFILTRATION 15 PSF
 AIR INFILTRATION 6.24 PSF
 MAXIMUM DESIGN PRESSURE = +/- 75 PSF
 ALL ALUMINUM EXTRUSIONS SHALL BE MADE FROM 6063-T6 ALLOY AND TEMPER.
 THIS PRODUCT HAS BEEN DESIGNED, ENGINEERED AND TESTED TO COMPLY WITH CURRENT BUILDING CODE.
 MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF CURRENT BUILDING CODE.

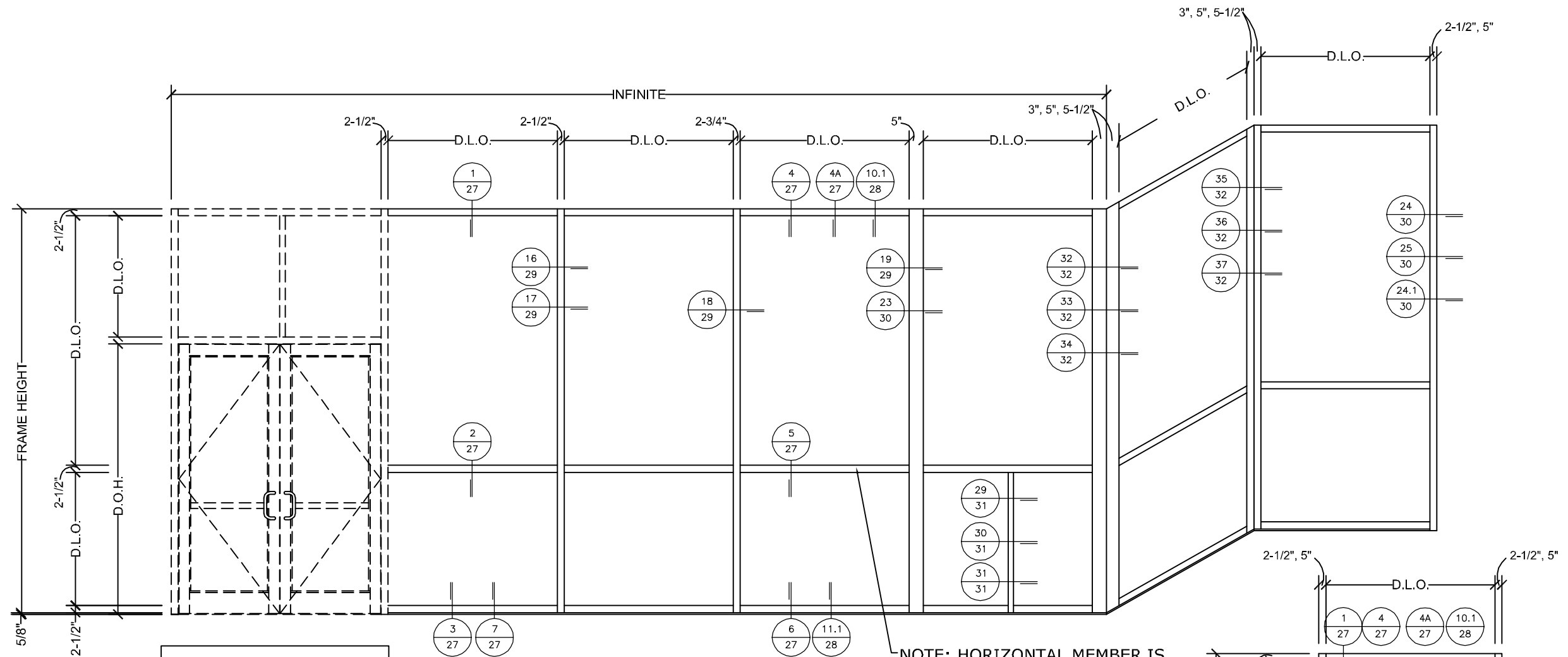
VISIT ECALC.IO/38380

FOR HELPFUL RESOURCES, SITE SPECIFIC JOB ORDERING & MORE INFORMATION ABOUT THIS PRODUCT & RELATED SERVICES



C:\Users\thayer\Engineering\Express\Production - Documents\Projects\21-38380 FG5750T Impact Storefront - CAD\21-38380a FG5750T Impact Storefront - TDI.dwg

08/31/2021 - 12:22pm thayer



DOOR AND DOOR FRAMES ARE SHOWN ON SEPARATE APPROVAL

NOTE: HORIZONTAL MEMBER IS LIMITED TO 57 1/2" MAX. IN LENGTH

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

INSTRUCTIONS TO DETERMINE DESIGN PRESSURE RATING

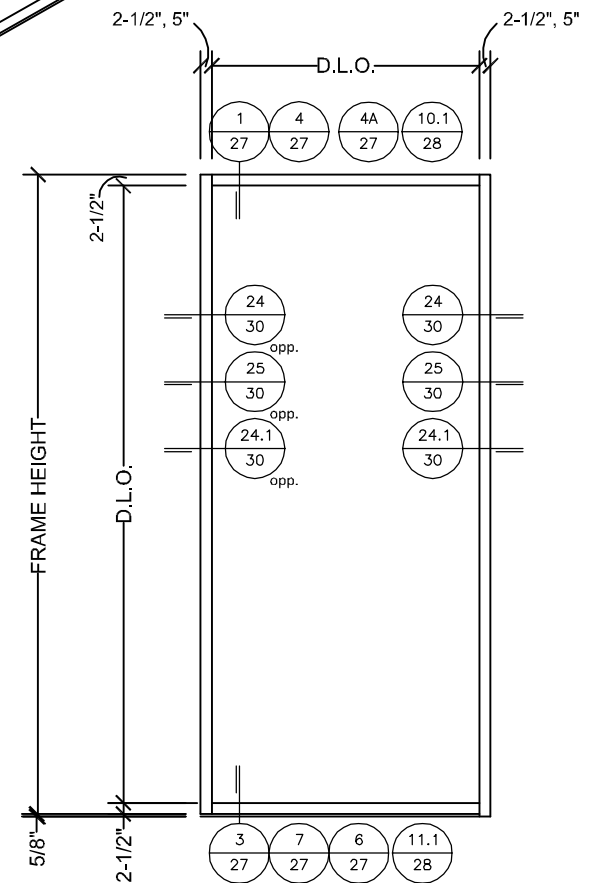
STEP ①: USE THE GLASS LOADING TABLES TO DETERMINE THE ALLOWABLE PRESSURE OF THE GLASS.

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 12

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 (PAGES 27-28) AND FASTENER SCHEDULE (PAGES 17-26) MUST MEET OR EXCEED DESIGN LOAD PRESSURE FOR THE STOREFRONT SYSTEM.

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



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

FRANK BENNARDO, P.E.
PE# 96064 CA-F-11383



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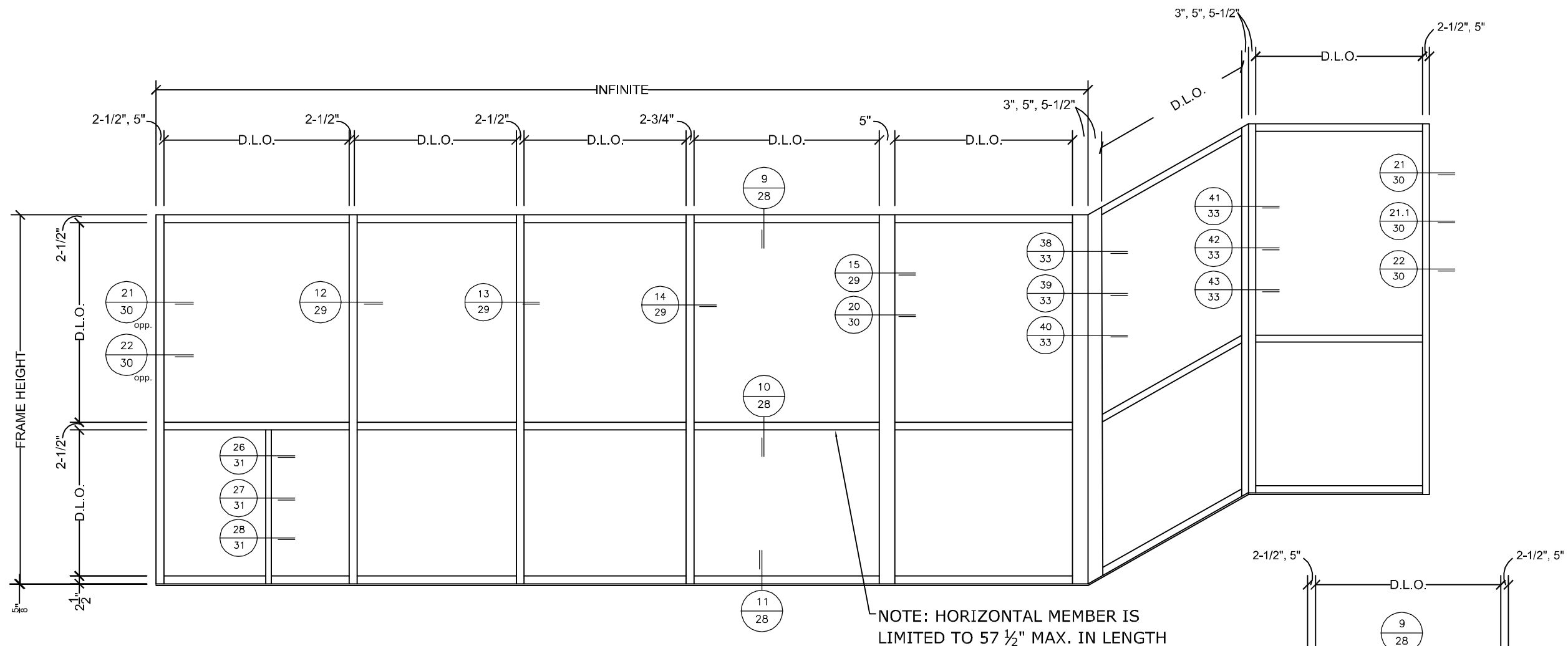
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02

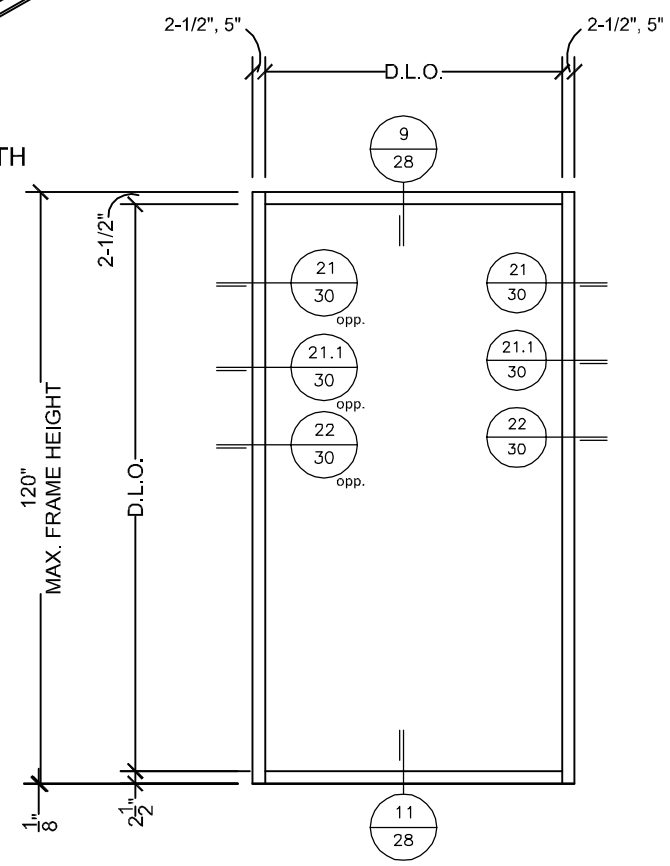
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NOTE: HORIZONTAL MEMBER IS LIMITED TO 57 1/2" MAX. IN LENGTH

**INSIDE DRY GLAZED ELEVATIONS
(DEPICTED WITH FGT-5712 SUB SILL)
(LARGE & SMALL MISSILE IMPACT)**



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

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 12

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 (PAGES 27-28) AND FASTENER SCHEDULE (PAGES 17-26) MUST MEET OR EXCEED DESIGN LOAD PRESSURE FOR THE STOREFRONT SYSTEM.

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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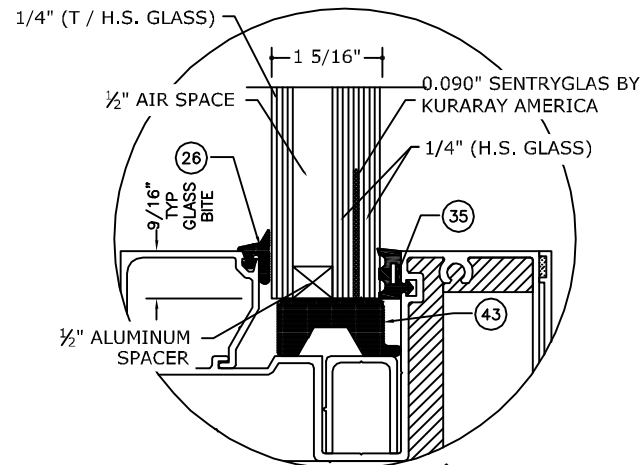
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03

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



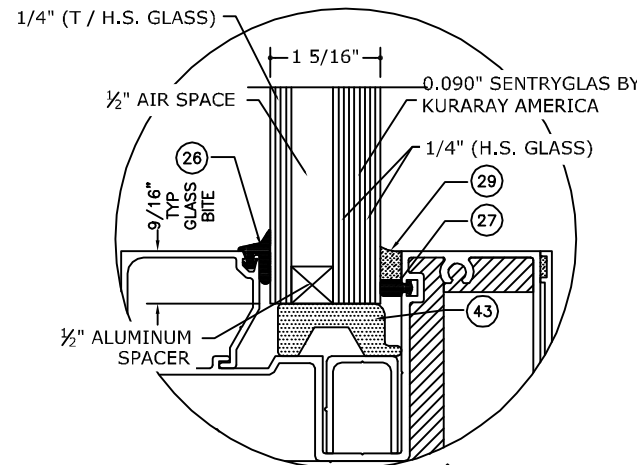
GLASS TYPE **G1**

GLAZING DETAIL (DRY GLAZED)

N.T.S.

GLASS RATING:

LARGE MISSILE LEVEL D
1 5/16" GLASS



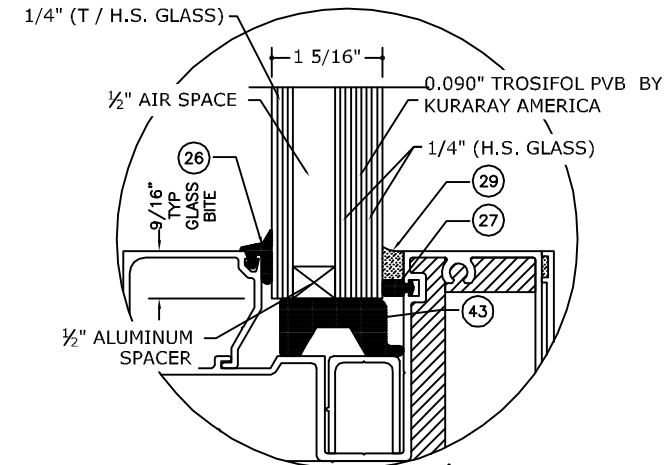
GLASS TYPE **G2**

GLAZING DETAIL (WET GLAZED)

N.T.S.

GLASS RATING:

LARGE MISSILE LEVEL D
1 5/16" GLASS



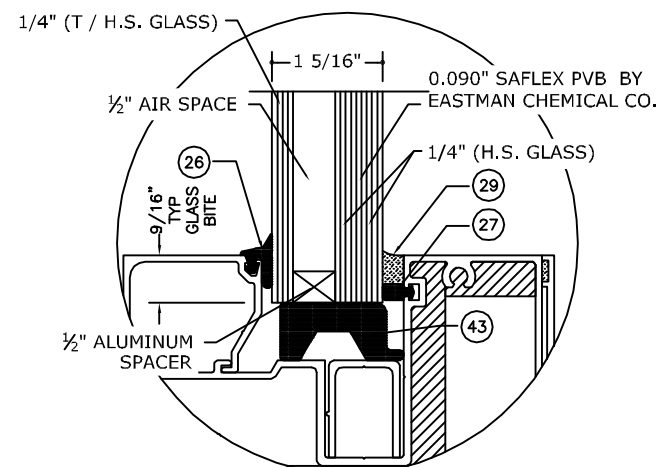
GLASS TYPE **G3**

GLAZING DETAIL (WET GLAZED)

N.T.S.

GLASS RATING:

LARGE MISSILE LEVEL D
1 5/16" GLASS



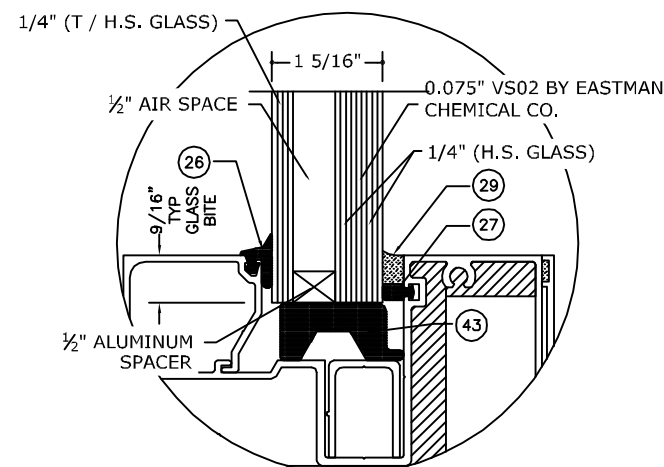
GLASS TYPE **G4**

GLAZING DETAIL (WET GLAZED)

N.T.S.

GLASS RATING:

LARGE MISSILE LEVEL D
1 5/16" GLASS



GLASS TYPE **G5**

GLAZING DETAIL (WET GLAZED)

N.T.S.

GLASS RATING:

LARGE MISSILE LEVEL D
1 5/16" GLASS

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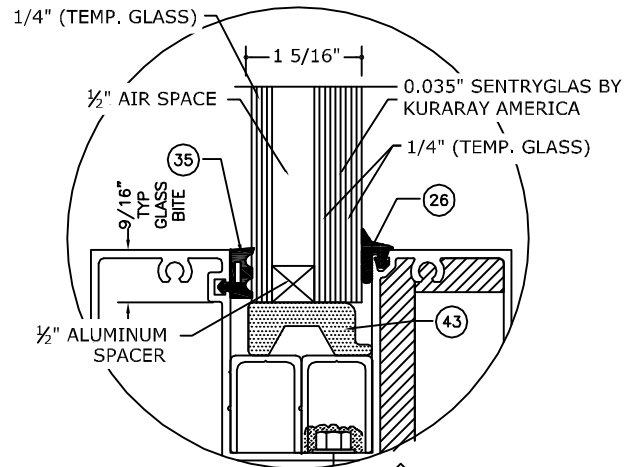
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GLASS TYPE (L.M.I. AND S.M.I.) - INSIDE GLAZED



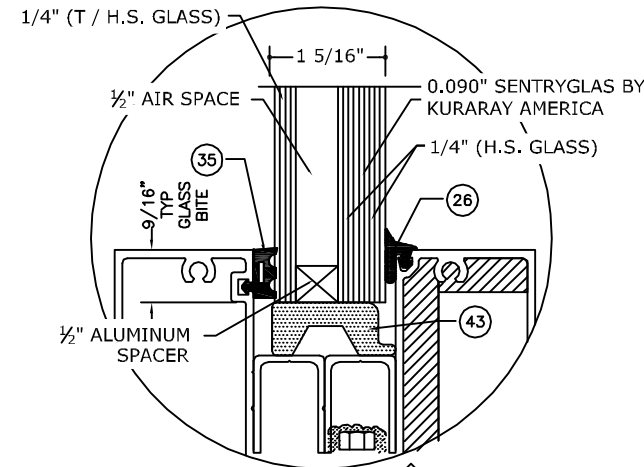
GLASS TYPE **G6**

GLAZING DETAIL (DRY GLAZED)

N.T.S.

GLASS RATING:

SMALL MISSILE
1 5/16" GLASS



GLASS TYPE **G7**

GLAZING DETAIL (DRY GLAZED)

N.T.S.

GLASS RATING:

LARGE MISSILE LEVEL D
1 5/16" GLASS

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GLASS LOADING TABLES (L.M.I.)

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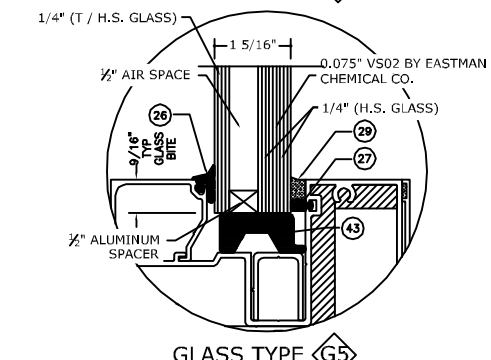
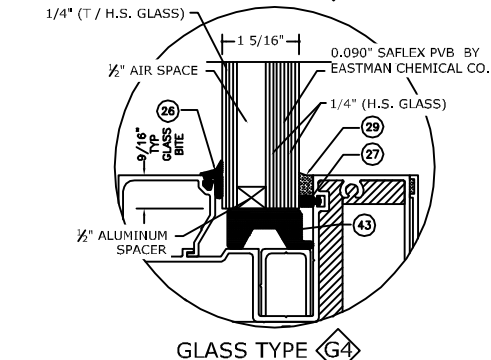
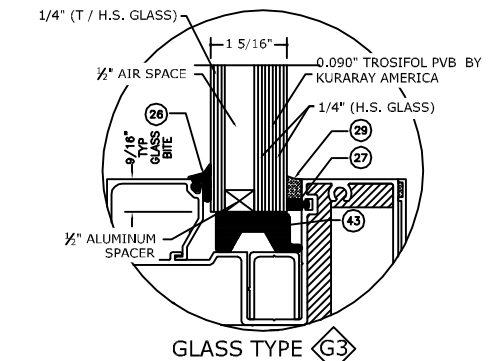
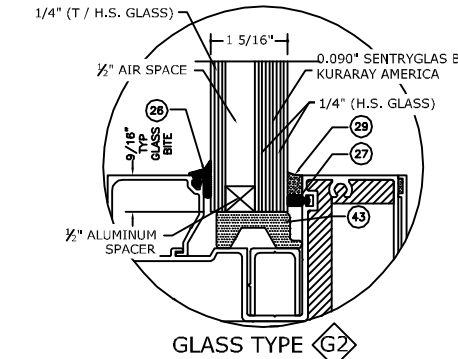
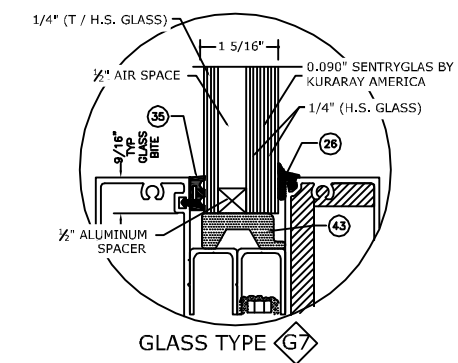
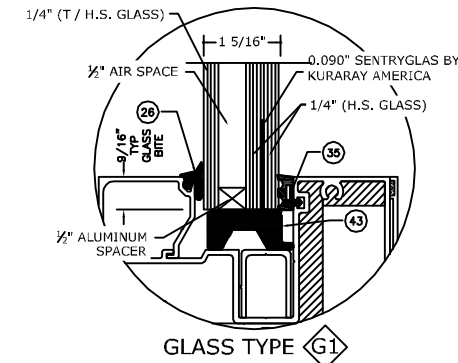
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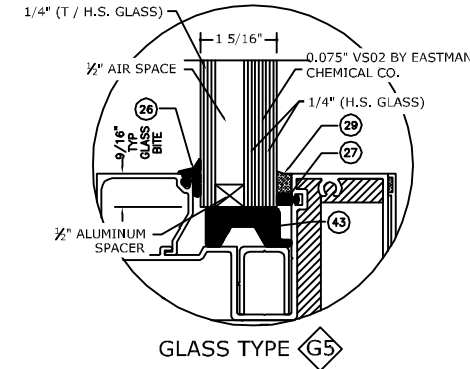
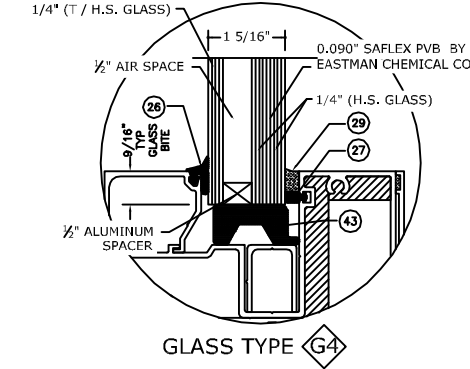
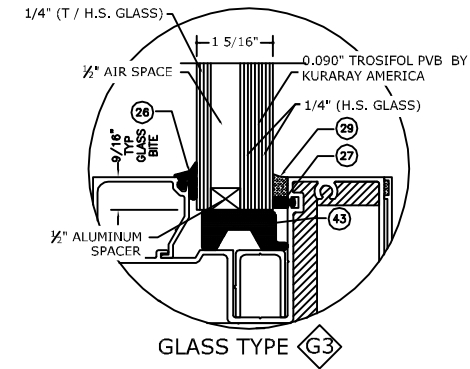
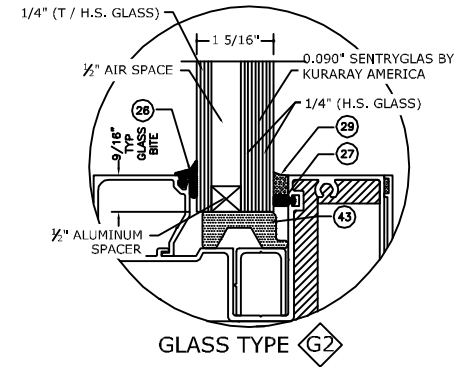
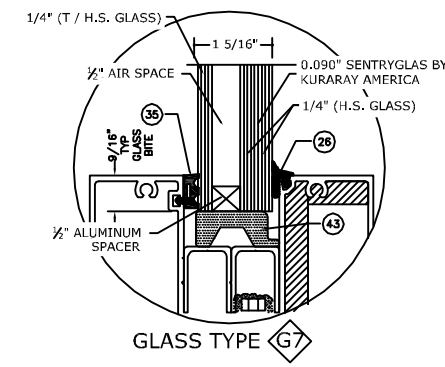
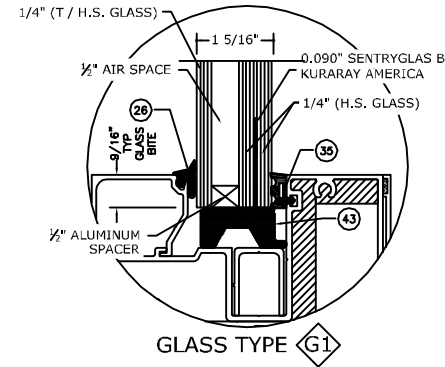
GLASS TYPES		G1		G2		G3		G4		G5	
		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
42	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	55	55	70	80	90	90
	42	75	75	75	75	55	55	67	77	90	90
	46	75	75	75	75	55	55	67	77	90	90
	48	75	75	75	75	55	55	67	77	90	90
	54	75	75	75	75	55	55	67	77	90	90
	57 1/2	75	75	75	75	55	55	67	77	90	90
	60	75	75	75	75	55	55	67	77	90	90
	66	75	75	75	75	55	55	67	77	90	90
48	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	55	55	70	80	90	90
	42	75	75	75	75	55	55	67	77	90	90
	46	75	75	75	75	55	55	61	70	90	90
	48	75	75	75	75	52	52	59	67	90	90
	54	75	75	75	75	52	52	59	67	90	90
	57 1/2	75	75	75	75	52	52	59	67	90	90
	60	75	75	75	75	52	52	59	67	90	90
	66	75	75	75	75	52	52	59	67	90	90
54	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	55	55	70	80	90	90
	42	75	75	75	75	55	55	67	77	90	90
	46	75	75	75	75	55	55	61	70	90	90
	48	75	75	75	75	52	52	59	67	90	90
	54	75	75	75	75	46	46	52	60	90	90
	57 1/2	75	75	75	75	46	46	52	60	90	90
	60	75	75	75	75	46	46	52	60	90	90
	66	75	75	75	75	46	46	52	60	90	90
60	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	55	55	70	80	90	90
	42	75	75	75	75	55	55	67	77	90	90
	46	75	75	75	75	55	55	61	70	90	90
	48	75	75	75	75	52	52	59	67	90	90
	54	75	75	75	75	46	46	52	60	90	90
	57 1/2	75	75	75	75	44	44	49	56	90	90
	60	67	67	67	67	42	42	47	54	86	86
	66	67	67	67	67	-	-	47	54	86	86
72	67	67	67	67	-	-	47	54	86	86	
78	67	67	67	67	-	-	-	-	86	86	



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GLASS LOADING TABLES (L.M.I.)

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
66	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	55	55	70	80	90	90
	42	75	75	75	75	55	55	67	77	90	90
	46	75	75	75	75	55	55	61	70	90	90
	48	75	75	75	75	52	52	59	67	90	90
	54	75	75	75	75	46	46	52	60	90	90
	57 1/2	75	75	75	75	44	44	49	56	90	90
	60	67	67	67	67	-	-	47	54	86	86
	66	60	60	60	60	-	-	42	49	78	78
72	60	60	60	60	-	-	-	-	78	78	
78	60	60	60	60	-	-	-	-	78	78	
72	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	55	55	70	80	90	90
	42	75	75	75	75	55	55	67	77	90	90
	46	75	75	75	75	55	55	61	70	90	90
	48	75	75	75	75	52	52	59	67	90	90
	54	75	75	75	75	-	-	52	60	90	90
	57 1/2	75	75	75	75	-	-	49	56	90	90
	60	67	67	67	67	-	-	47	54	86	86
	66	60	60	60	60	-	-	-	-	78	78
72	55	55	55	55	-	-	-	-	71	71	
78	-	-	-	-	-	-	-	-	71	71	
78	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	55	55	70	80	90	90
	42	75	75	75	75	55	55	67	77	90	90
	46	75	75	75	75	55	55	61	70	90	90
	48	75	75	75	75	52	52	59	67	90	90
	54	75	75	75	75	-	-	52	60	90	90
	57 1/2	75	75	75	75	-	-	-	-	90	90
	60	67	67	67	67	-	-	-	-	86	86
	66	60	60	60	60	-	-	-	-	78	78
72	-	-	-	-	-	-	-	-	71	71	
78	-	-	-	-	-	-	-	-	66	66	
83	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	55	55	70	80	90	90
	42	75	75	75	75	55	55	67	77	90	90
	46	75	75	75	75	55	55	61	70	90	90
	48	75	75	75	75	-	-	59	67	90	90
	54	75	75	75	75	-	-	-	-	90	90
	57 1/2	75	75	75	75	-	-	-	-	90	90
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	66	60	60	60	60	-	-	-	-	78	78
72	-	-	-	-	-	-	-	-	71	71	
78	-	-	-	-	-	-	-	-	66	66	



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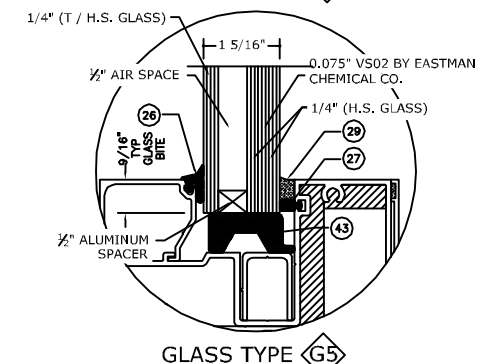
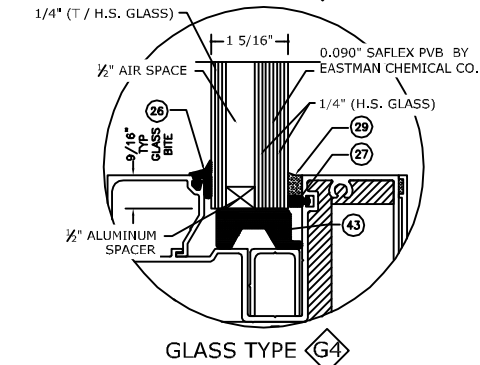
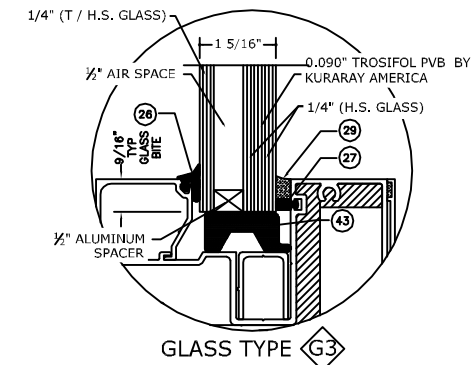
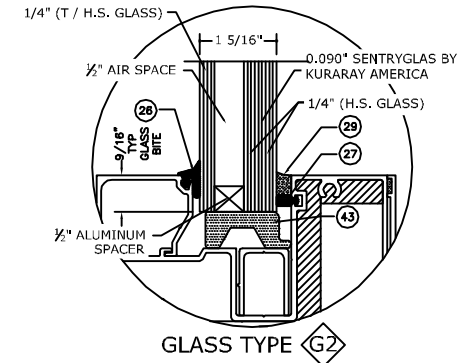
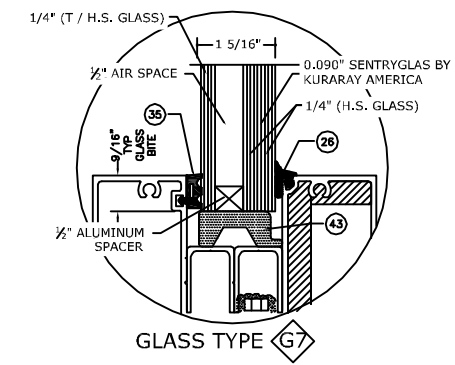
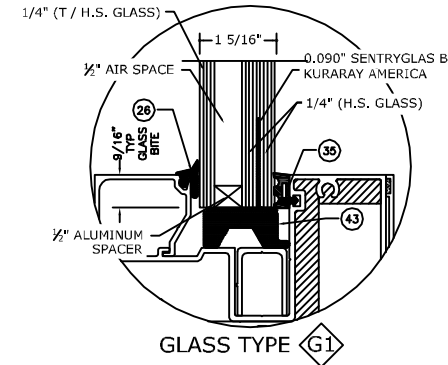
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GLASS LOADING TABLES (L.M.I.)

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
96	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	55	55	70	80	90	90
	42	75	75	75	75	-	-	67	77	90	90
	46	75	75	75	75	-	-	-	-	90	90
	48	75	75	75	75	-	-	-	-	90	90
	54	75	75	75	75	-	-	-	-	90	90
	57 1/2	75	75	75	75	-	-	-	-	90	90
	60	-	-	-	-	-	-	-	-	86	86
101	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	55	55	70	80	90	90
	42	75	75	75	75	-	-	67	77	90	90
	46	75	75	75	75	-	-	-	-	90	90
	48	75	75	75	75	-	-	-	-	90	90
	54	75	75	75	75	-	-	-	-	90	90
	57 1/2	-	-	-	-	-	-	-	-	90	90
	60	-	-	-	-	-	-	-	-	86	86
108	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	-	-	70	80	90	90
	42	75	75	75	75	-	-	-	-	90	90
	46	75	75	75	75	-	-	-	-	90	90
	48	75	75	75	75	-	-	-	-	90	90
	54	-	-	-	-	-	-	-	-	90	90
	57 1/2	-	-	-	-	-	-	-	-	90	90
	60	-	-	-	-	-	-	-	-	86	86
115	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	-	-	70	80	90	90
	42	75	75	75	75	-	-	-	-	90	90
	46	75	75	75	75	-	-	-	-	90	90
	48	75	75	75	75	-	-	-	-	90	90
	54	-	-	-	-	-	-	-	-	90	90
	57 1/2	-	-	-	-	-	-	-	-	90	90



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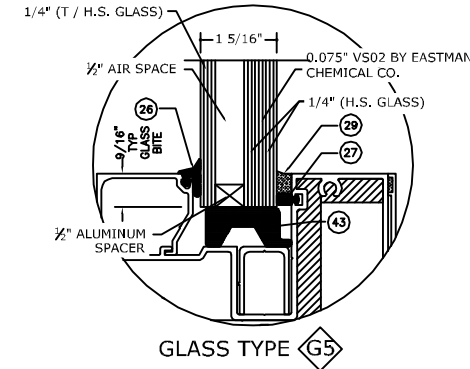
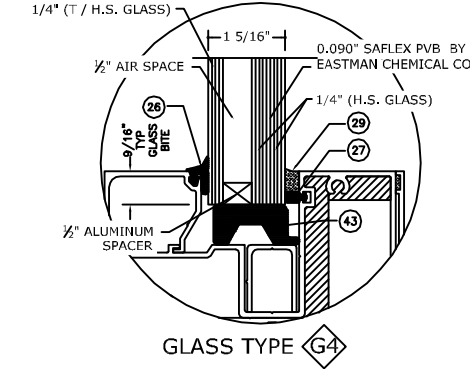
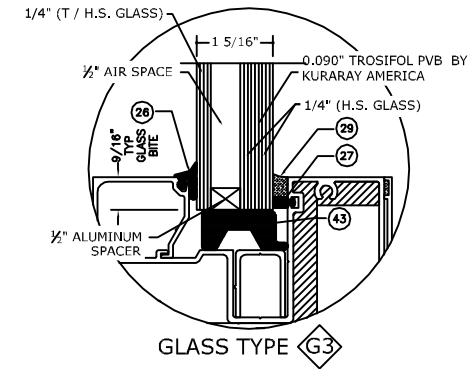
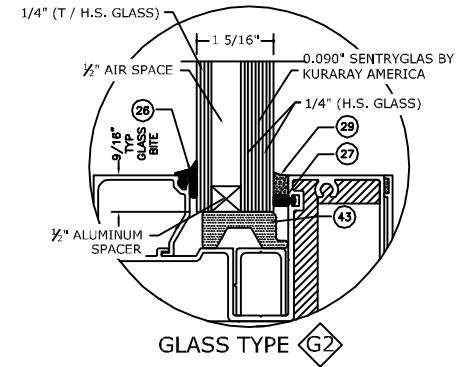
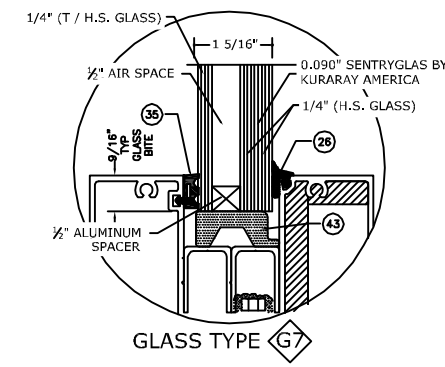
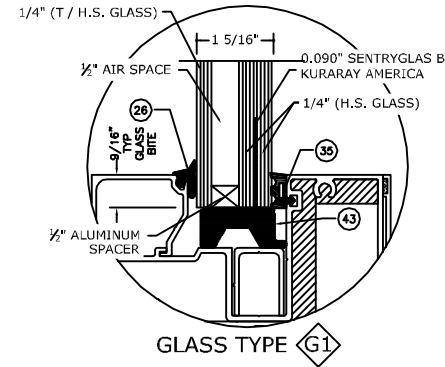
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GLASS LOADING TABLES (L.M.I.)

GLASS TYPES		G1 G7		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
120	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	-	-	70	80	90	90
	42	75	75	75	75	-	-	-	-	90	90
	46	75	75	75	75	-	-	-	-	90	90
	48	-	-	-	-	-	-	-	-	90	90
	54	-	-	-	-	-	-	-	-	90	90
126	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	55	55	70	80	90	90
	36	75	75	75	75	-	-	-	-	90	90
	42	75	75	75	75	-	-	-	-	90	90
	46	-	-	-	-	-	-	-	-	90	90
	48	-	-	-	-	-	-	-	-	90	90
	54	-	-	-	-	-	-	-	-	90	90
132	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	-	-	70	80	90	90
	36	75	75	75	75	-	-	-	-	90	90
	42	-	-	-	-	-	-	-	-	90	90
	46	-	-	-	-	-	-	-	-	90	90
144	24	75	75	75	75	55	55	70	80	90	90
	30	75	75	75	75	-	-	70	80	90	90
	36	75	75	75	75	-	-	-	-	90	90
	42	-	-	-	-	-	-	-	-	90	90



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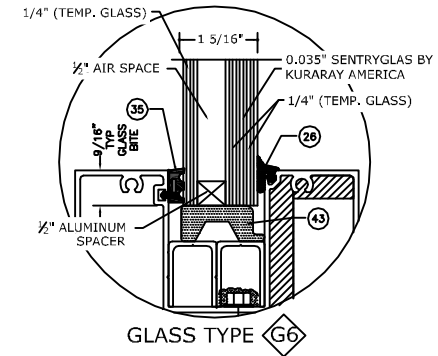
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GLASS LOADING TABLES (S.M.I.)

GLASS TYPES		G6		
		ALLOWABLE PRESSURE		
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F	
24	24	60	60	
	30	60	60	
	36	60	60	
	42	60	60	
	46	60	60	
	48	60	60	
	54	60	60	
	57 1/2	60	60	
	60	60	60	
	66	60	60	
	72	60	60	
	78	60	60	
	30	24	60	60
		30	60	60
36		60	60	
42		60	60	
46		60	60	
48		60	60	
54		60	60	
57 1/2		60	60	
60		60	60	
66		60	60	
72		60	60	
78		60	60	
36		24	60	60
		30	60	60
	36	60	60	
	42	60	60	
	46	60	60	
	48	60	60	
	54	60	60	
	57 1/2	60	60	
	60	60	60	
	66	60	60	
	72	60	60	
	78	60	60	
	40.5	24	60	60
		30	60	60
36		60	60	
42		60	60	
46		60	60	
48		60	60	
54		60	60	
57 1/2		60	60	
60		60	60	
66		60	60	
72		60	60	
78		60	60	

GLASS TYPES		G6		
		ALLOWABLE PRESSURE		
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F	
42	24	60	60	
	30	60	60	
	36	60	60	
	42	60	60	
	46	60	60	
	48	60	60	
	54	60	60	
	57 1/2	60	60	
	60	60	60	
	66	60	60	
	72	60	60	
	78	60	60	
	48	24	60	60
		30	60	60
36		60	60	
42		60	60	
46		59	59	
48		57	57	
54		57	57	
57 1/2		57	57	
60		57	57	
66		57	57	
72		57	57	
78		57	57	
54		24	60	60
		30	60	60
	36	60	60	
	42	60	60	
	46	59	59	
	48	57	57	
	54	51	51	
	57 1/2	51	51	
	60	51	51	
	66	51	51	
	72	51	51	
	78	51	51	
	60	24	60	60
		30	60	60
36		60	60	
42		60	60	
46		59	59	
48		57	57	
54		51	51	
57 1/2		47	47	
60		45	45	
66		45	45	
72		45	45	
78		-	-	

GLASS TYPES		G6		
		ALLOWABLE PRESSURE		
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F	
66	24	60	60	
	30	60	60	
	36	60	60	
	42	60	60	
	46	59	59	
	48	57	57	
	54	51	51	
	57 1/2	47	47	
	60	45	45	
	66	41	41	
	72	24	60	60
		30	60	60
		36	60	60
		42	60	60
46		59	59	
48		57	57	
54		51	51	
57 1/2		47	47	
78	24	60	60	
	30	60	60	
	36	60	60	
	42	60	60	
	46	59	59	
	48	57	57	
	54	51	51	
	57 1/2	47	47	
83	24	60	60	
	30	60	60	
	36	60	60	
	42	60	60	
	46	59	59	
	48	57	57	
	54	51	51	



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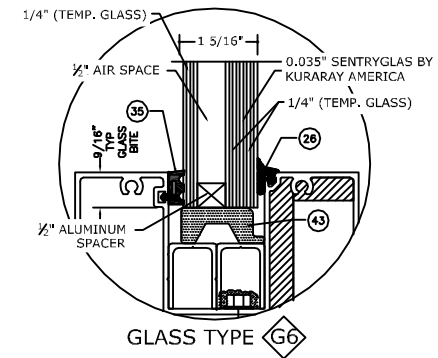
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GLASS LOADING TABLES (S.M.I.)

GLASS TYPES		G6	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
96	24	60	60
	30	60	60
	36	60	60
	42	60	60
	46	59	59
101	24	60	60
	30	60	60
	36	60	60
	42	60	60
	46	60	60
108	24	60	60
	30	60	60
	36	60	60
115	24	60	60
	30	60	60

GLASS TYPES		G6	
		ALLOWABLE PRESSURE	
D.L.O. HEIGHT (in)	D.L.O. WIDTH (in)	(+) P.S.F	(-) P.S.F
120	24	60	60
	30	60	60
	36	60	60
126	24	60	60
	30	60	60
	36	60	60
132	24	60	60
	30	60	60
144	24	60	60
	30	60	60



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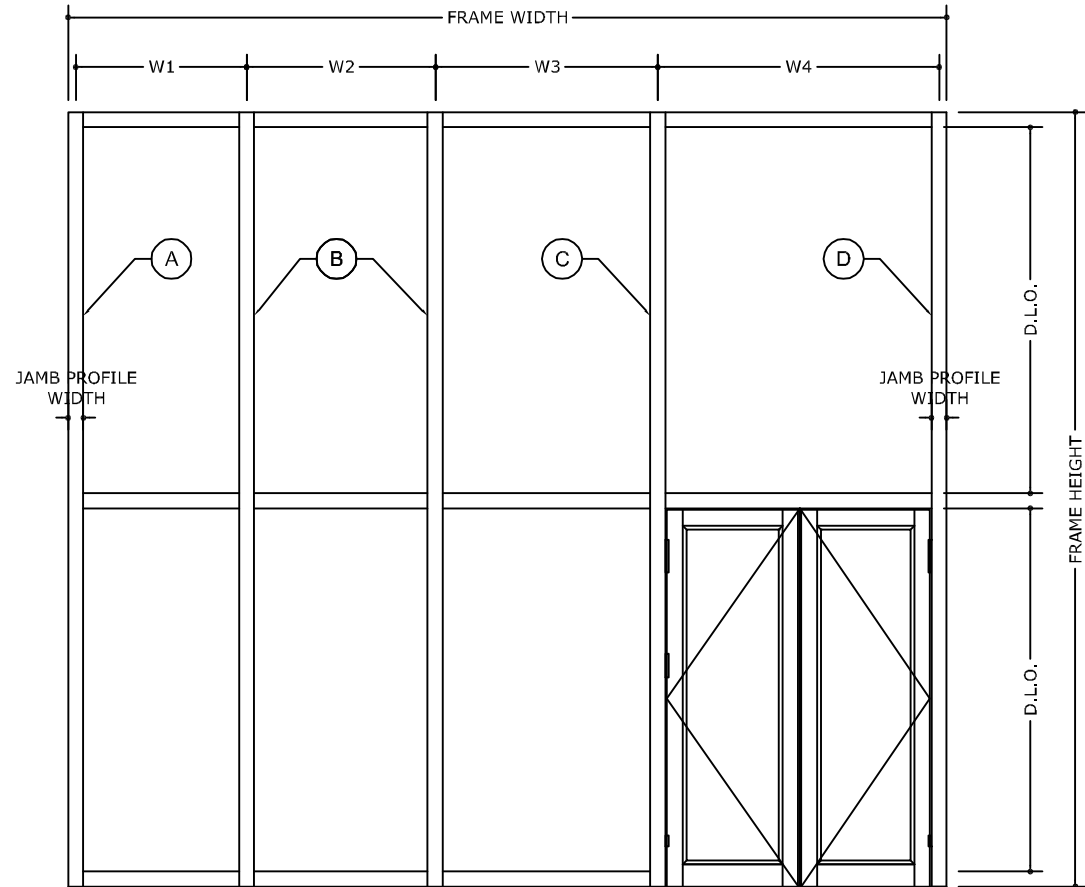
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MULLION & JAMB LOAD DETERMINATION



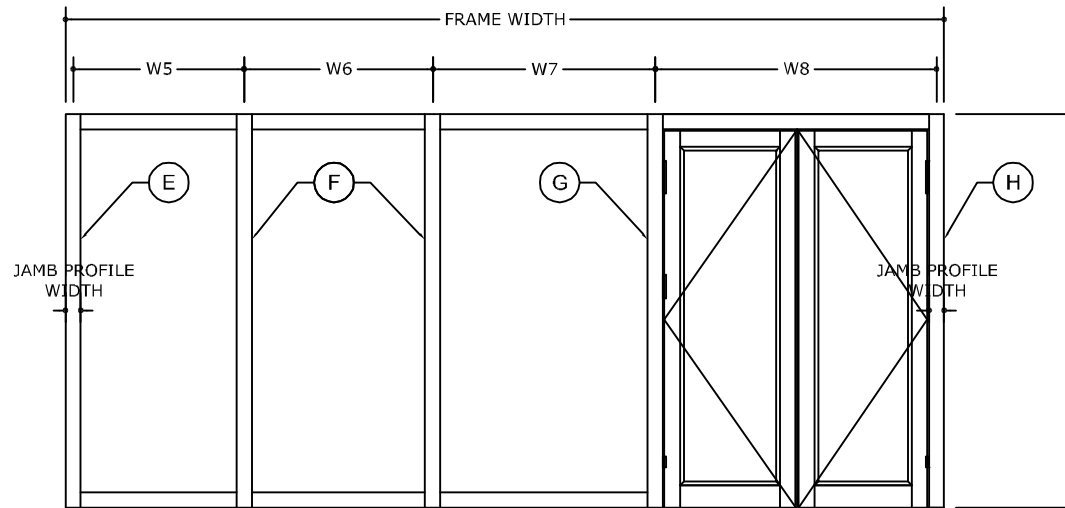
LOAD DETERMINATION

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)



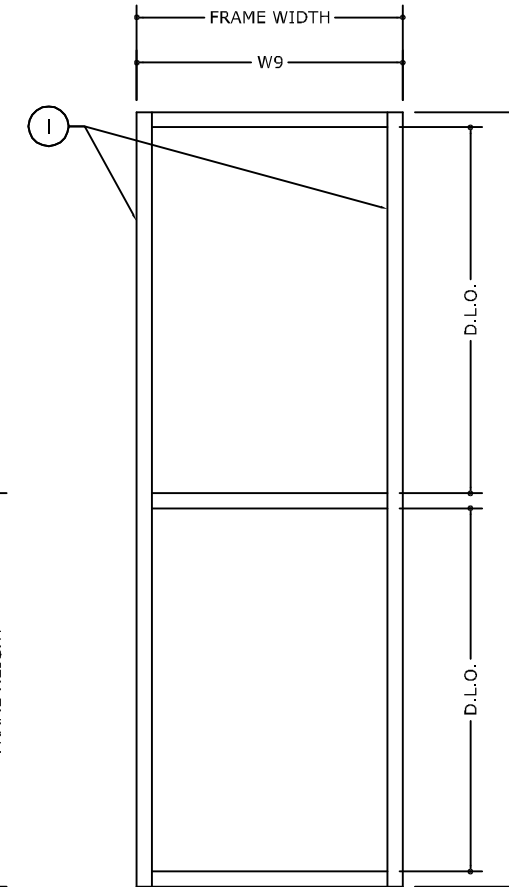
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TRIBUTARY WIDTH E = $\frac{W5}{2} + 1/2"$ JAMB PROFILE WIDTH
(FOR STANDARD JAMB MULLION)

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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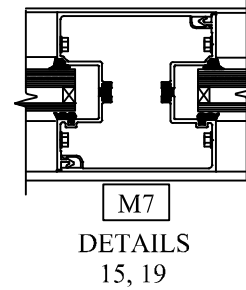
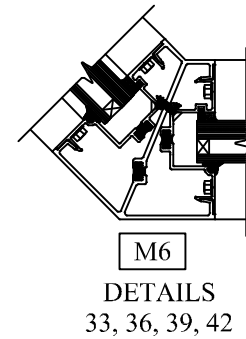
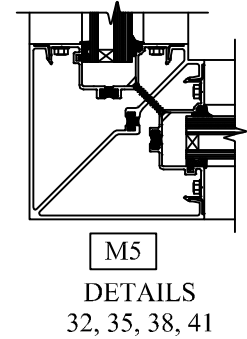
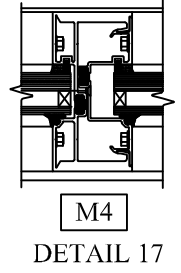
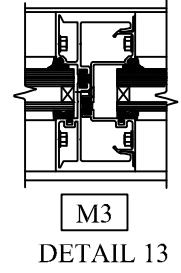
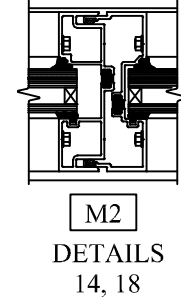
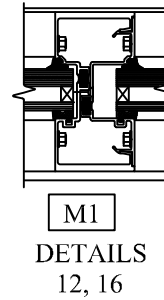
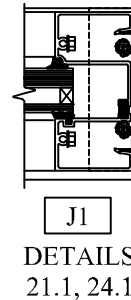
MULLION LOADING TABLES (P.S.F.)

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE	
		M1		M2		M3 - M4		M5		M6		M7	
		(+) 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
FRAME HEIGHT (in)	FRAME WIDTH (in)												
66	24	70	80	70	70	75	75	70	80	70	70	55	55
	30	70	80	70	70	75	75	70	80	70	70	55	55
	36	70	80	70	70	75	75	70	80	70	70	55	55
	42	70	80	70	70	75	75	70	80	70	70	55	55
	44.75	70	80	70	70	75	75	70	80	70	70	55	55
	48	70	80	70	70	75	75	70	80	70	70	55	55
	54	70	80	70	70	75	75	70	80	70	70	55	55
	60	70	80	70	70	75	75	70	80	70	70	55	55
	66	70	80	70	70	75	75	70	80	70	70	55	55
	72	70	80	70	70	75	75	70	80	70	70	55	55
78	70	80	70	70	75	75	70	80	70	70	55	55	
72	24	70	80	70	70	75	75	70	80	70	70	55	55
	30	70	80	70	70	75	75	70	80	70	70	55	55
	36	70	80	70	70	75	75	70	80	70	70	55	55
	42	70	80	70	70	75	75	70	80	70	70	55	55
	44.75	70	80	70	70	75	75	70	80	70	70	55	55
	48	70	80	70	70	75	75	70	80	70	70	55	55
	54	70	80	70	70	75	75	70	80	70	70	55	55
	60	70	80	70	70	75	75	70	80	70	70	55	55
	66	70	80	70	70	75	75	70	80	70	70	55	55
	72	70	80	70	70	75	75	70	80	70	70	55	55
78	70	80	-	-	75	75	70	80	70	70	55	55	
78	24	70	80	70	70	75	75	70	80	70	70	55	55
	30	70	80	70	70	75	75	70	80	70	70	55	55
	36	70	80	70	70	75	75	70	80	70	70	55	55
	42	70	80	70	70	75	75	70	80	70	70	55	55
	44.75	70	80	70	70	75	75	70	80	70	70	55	55
	48	70	80	70	70	75	75	70	80	70	70	55	55
	54	70	80	70	70	75	75	70	80	70	70	55	55
	60	70	80	70	70	75	75	70	80	70	70	55	55
	66	70	80	70	70	75	75	70	80	70	70	55	55
	72	70	80	-	-	75	75	70	80	70	70	55	55
78	70	80	-	-	75	75	70	80	70	70	55	55	
84	24	70	80	70	70	75	75	70	80	70	70	55	55
	30	70	80	70	70	75	75	70	80	70	70	55	55
	36	70	80	70	70	75	75	70	80	70	70	55	55
	42	70	80	70	70	75	75	70	80	70	70	55	55
	44.75	70	80	70	70	75	75	70	80	70	70	55	55
	48	70	80	70	70	75	75	70	80	70	70	55	55
	54	70	80	70	70	75	75	70	80	70	70	55	55
	60	70	80	70	70	75	75	70	80	70	70	55	55
	66	70	80	-	-	75	75	70	80	70	70	55	55
	72	70	80	-	-	75	75	70	80	70	70	55	55
78	70	80	-	-	75	75	70	80	70	70	55	55	

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
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

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- APPLICABLE FOR UN-ANCHORED JAMB CONDITION ONLY
- JAMB TRIBUTARY SHALL BE DETERMINED PER SHEET 12 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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PE# 96064 CA-F-11383



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REMARKS	DATE
INIT ISSUE	03/16/21
DRWN	JEM
CHKD	AJP

21-38380
 SCALE: NTS UNLESS NOTED

MULLION LOADING TABLES (P.S.F.)

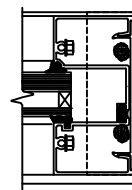
SINGLE SPAN MULLION LOADING CHART		MULLION TYPE M1		MULLION TYPE M2		MULLION TYPE M3 - M4		MULLION TYPE M5		MULLION TYPE M6		MULLION TYPE M7	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
89	24	70	80	70	70	75	75	70	80	70	70	55	55
	30	70	80	70	70	75	75	70	80	70	70	55	55
	36	70	80	70	70	75	75	70	80	70	70	55	55
	42	70	80	70	70	75	75	70	80	70	70	55	55
	44.75	70	80	70	70	75	75	70	80	70	70	55	55
	48	70	80	70	70	75	75	70	80	70	70	55	55
	54	70	80	70	70	75	75	70	80	70	70	55	55
	60	70	80	-	-	75	75	70	80	70	70	55	55
	66	70	80	-	-	75	75	70	80	70	70	55	55
	72	70	80	-	-	75	75	70	80	70	70	55	55
78	70	80	-	-	75	75	-	-	-	-	-	-	
96	24	70	80	70	70	75	75	70	80	70	70	55	55
	30	70	80	70	70	75	75	70	80	70	70	55	55
	36	70	80	70	70	75	75	70	80	70	70	55	55
	42	70	80	70	70	75	75	70	80	70	70	55	55
	44.75	70	80	70	70	75	75	70	80	70	70	55	55
	48	70	80	70	70	75	75	70	80	70	70	55	55
	54	70	80	70	70	75	75	70	80	70	70	55	55
	60	70	80	-	-	75	75	70	80	70	70	55	55
	66	70	80	-	-	75	75	70	80	70	70	55	55
	72	69	78	-	-	75	75	70	80	-	-	55	55
78	-	-	-	-	75	75	-	-	-	-	-	-	
102	24	70	80	70	70	75	75	70	80	70	70	55	55
	30	70	80	70	70	75	75	70	80	70	70	55	55
	36	70	80	70	70	75	75	70	80	70	70	55	55
	42	70	80	70	70	75	75	70	80	70	70	55	55
	44.75	70	80	70	70	75	75	70	80	70	70	55	55
	48	70	80	70	70	75	75	70	80	70	70	55	55
	54	70	80	-	-	75	75	70	80	70	70	55	55
	60	68	78	-	-	75	75	70	80	70	70	55	55
	66	63	73	-	-	75	75	70	80	70	70	55	55
	72	-	-	-	-	75	75	-	-	-	-	-	-
108	24	70	80	70	70	75	75	70	80	70	70	55	55
	30	70	80	70	70	75	75	70	80	70	70	55	55
	36	70	80	70	70	75	75	70	80	70	70	55	55
	42	70	80	70	70	75	75	70	80	70	70	55	55
	44.75	70	80	70	70	75	75	70	80	70	70	55	55
	48	70	79	70	70	75	75	70	80	70	70	55	55
	54	65	72	70	70	75	75	70	80	70	70	55	55
	60	60	66	70	70	75	75	70	80	70	70	55	55
	66	56	62	-	-	75	75	-	-	-	-	-	-
	72	-	-	-	-	75	75	-	-	-	-	-	-

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

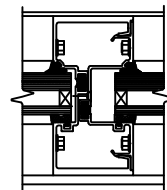
NOTE: FRAME WIDTHS = FRAME TRIBUTARY WIDTH

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

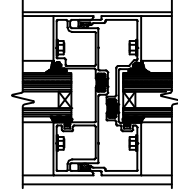
- APPLICABLE FOR UN-ANCHORED JAMB CONDITION ONLY
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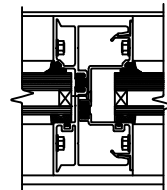
J1
DETAILS
21.1, 24.1



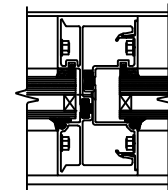
M1
DETAILS
12, 16



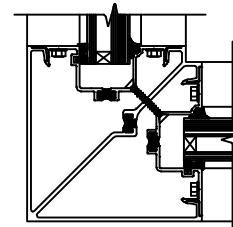
M2
DETAILS
14, 18



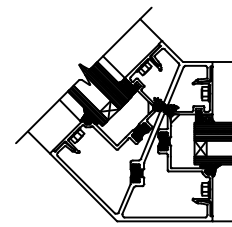
M3
DETAIL 13



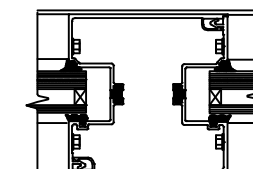
M4
DETAIL 17



M5
DETAILS
32, 35, 38, 41



M6
DETAILS
33, 36, 39, 42



M7
DETAILS
15, 19



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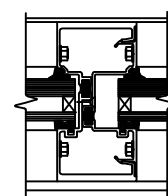
21-38380

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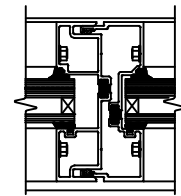
OF 38
14

MULLION LOADING TABLES (P.S.F.)

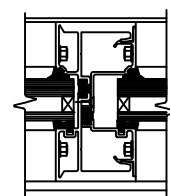
SINGLE SPAN MULLION LOADING CHART		MULLION TYPE M1		MULLION TYPE M2		MULLION TYPE M3 - M4		MULLION TYPE M5		MULLION TYPE M6		MULLION TYPE M7	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
109	24	70	80	70	70	75	75	70	80	70	70	55	55
	30	70	80	70	70	75	75	70	80	70	70	55	55
	36	70	80	70	70	75	75	70	80	70	70	55	55
	42	70	80	70	70	75	75	70	80	70	70	55	55
	44.75	70	80	70	70	75	75	70	80	70	70	55	55
	48	70	79	70	70	75	75	70	80	70	70	55	55
	54	65	72	70	70	75	75	70	80	70	70	55	55
	60	60	66	70	70	75	75	70	80	70	70	55	55
66	56	62	-	-	74	74	-	-	-	-	-	-	-
114	24	70	80	-	-	75	75	70	80	-	-	55	55
	30	70	80	-	-	75	75	70	80	-	-	55	55
	36	70	80	-	-	75	75	70	80	-	-	55	55
	42	70	75	-	-	75	75	70	80	-	-	55	55
	44.75	68	71	-	-	75	75	70	80	-	-	55	55
	48	64	67	-	-	75	75	70	80	-	-	55	55
	54	58	61	-	-	75	75	70	80	-	-	55	55
	60	53	56	-	-	73	73	70	80	-	-	55	55
66	-	-	-	-	69	69	-	-	-	-	-	-	-
120	24	70	80	-	-	75	75	70	80	-	-	55	55
	30	70	80	-	-	75	75	70	80	-	-	55	55
	36	70	74	-	-	75	75	70	80	-	-	55	55
	42	65	64	-	-	75	75	70	80	-	-	55	55
	44.75	61	60	-	-	75	75	70	80	-	-	55	55
	48	57	57	-	-	75	75	70	80	-	-	55	55
	54	52	51	-	-	70	70	70	80	-	-	55	55
60	47	47	-	-	68	68	-	-	-	-	-	-	-
126	24	-	-	-	-	75	75	70	80	-	-	55	55
	30	-	-	-	-	75	75	70	80	-	-	55	55
	36	-	-	-	-	75	75	70	80	-	-	55	55
	42	-	-	-	-	75	75	70	80	-	-	55	55
	44.75	-	-	-	-	75	75	70	80	-	-	55	55
	48	-	-	-	-	68	68	70	80	-	-	55	55
	54	-	-	-	-	62	62	70	78	-	-	55	55



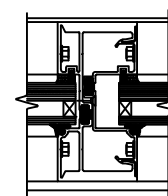
M1
DETAILS
12, 16



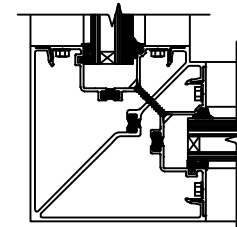
M2
DETAILS
14, 18



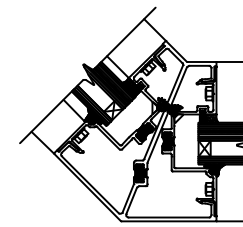
M3
DETAIL 13



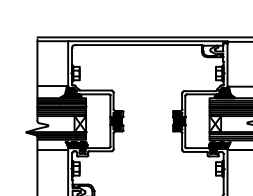
M4
DETAIL 17



M5
DETAILS
32, 35, 38, 41



M6
DETAILS
33, 36, 39, 42



M7
DETAILS
15, 19

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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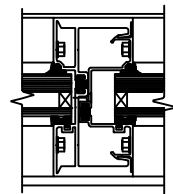
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MULLION LOADING TABLES (P.S.F.)

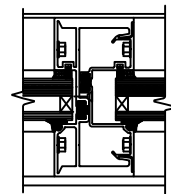
SINGLE SPAN MULLION LOADING CHART		MULLION TYPE M3 - M4		MULLION TYPE M5		MULLION TYPE M7	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
132	24	75	75	70	80	55	55
	30	75	75	70	80	55	55
	36	75	75	70	80	55	55
	42	75	75	70	80	55	55
	44.75	73	73	70	80	55	55
	48	69	69	70	75	55	55
	54	62	62	-	-	-	-
138	24	75	75	70	80	55	55
	30	75	75	70	80	55	55
	36	75	75	70	80	55	55
	42	70	70	70	80	55	55
	44.75	66	66	70	74	55	55
	48	62	62	65	65	55	55
	54	56	56	-	-	-	-
144	24	75	75	70	80	55	55
	30	75	75	70	80	55	55
	36	71	71	70	75	55	55
	42	62	62	65	65	55	55
	44.75	58	58	61	61	55	55
	48	54	54	57	57	55	55
	54	49	49	-	-	-	-
146	24	75	75	-	-	-	-
	30	75	75	-	-	-	-
	36	68	68	-	-	-	-
	42	59	59	-	-	-	-
	44.75	56	56	-	-	-	-
	48	52	52	-	-	-	-

NOTE: FRAME WIDTHS = FRAME TRIBUTARY WIDTH

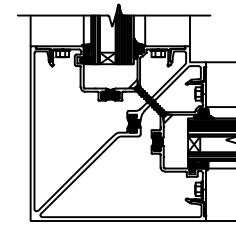
NOTE: SPANS NOT IN THIS TABLE CAN BE ADDED UNDER SITE SPECIFIC ENGINEERING AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ)



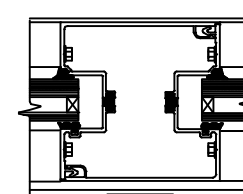
M3
DETAIL 13



M4
DETAIL 17



M5
DETAILS
32, 35, 38, 41



M7
DETAILS
15, 19

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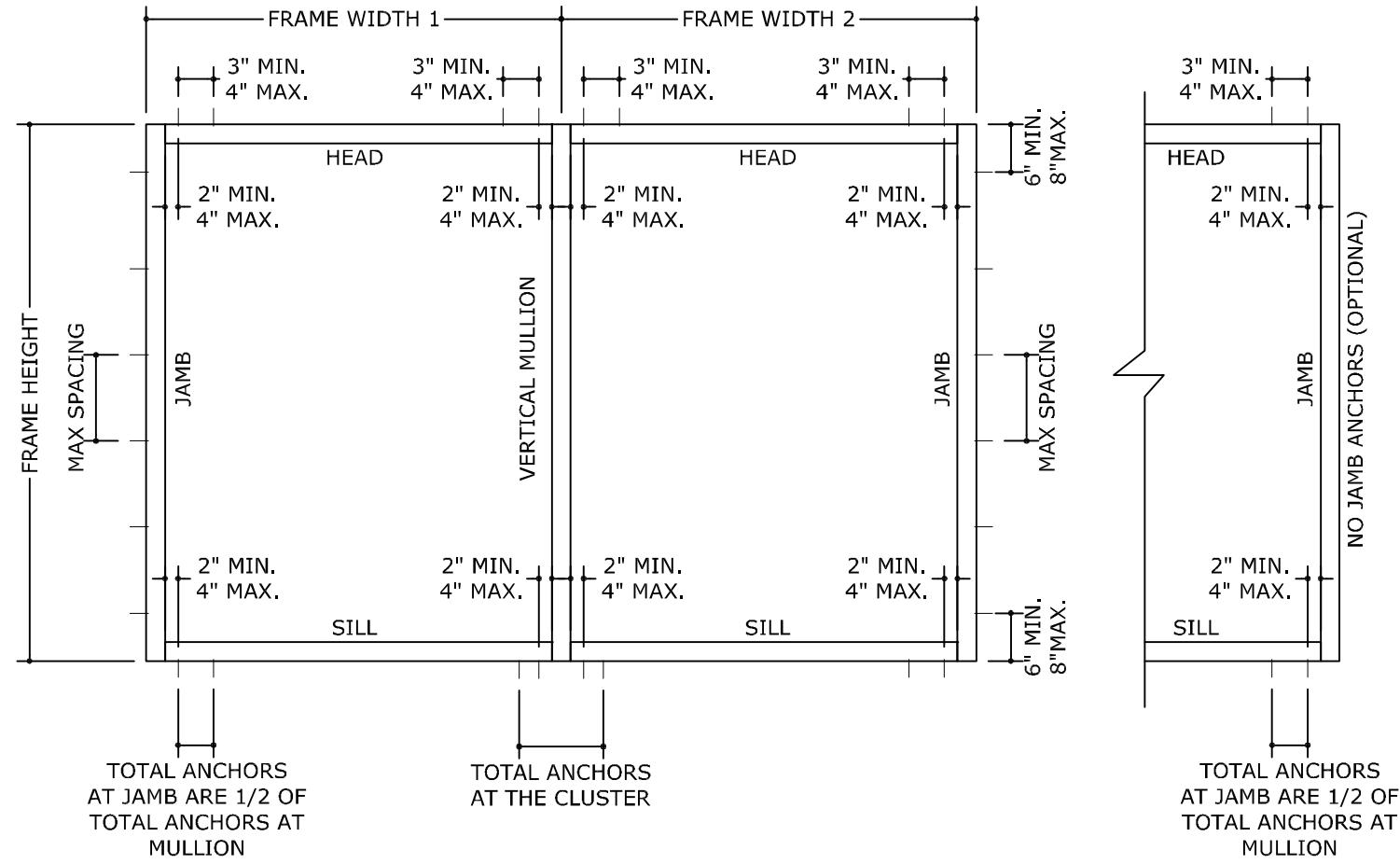
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FASTENER SCHEDULE



FASTENER SCHEDULE							
ANCHOR TYPE	ANCHOR DIAMETER	TYPE	MANUFACTURER	SUBSTRATE	MIN EMBEDMENT (IN)	MIN EDGE DISTANCE (IN)	SPACING (IN)
A	1/4"	ULTRACON+ ANCHOR	DEWALT	POURED CONCRETE 3000 PSI MIN	1-3/4	2-1/2	3" MIN. 4" MAX.
B	1/4"-14	DRIL-FLEX HEX WASHER HEAD SELF DRILLING SCREW	DEWALT	16 GA MIN. STUD ASTM A-653 GRADE 33 STEEL	FULL	1-1/2	3" MIN. 4" MAX.
				1/8" STEEL-A36			
C	1/4"	ULTRACON ANCHOR OR LAG SCREW	DEWALT	2X WOOD BUCK G=0.55	1-1/2	1-1/2	3" MIN. 4" MAX.



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

FRAME HEIGHT (IN)	TRIBUTARY WIDTH (IN)	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 (IN)	TRIBUTARY WIDTH (IN)	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 (IN)	TRIBUTARY WIDTH (IN)	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 (IN)	TRIBUTARY WIDTH (IN)	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 (IN)	TRIBUTARY WIDTH (IN)	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.

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

FRAME HEIGHT (IN)	TRIBUTARY WIDTH (IN)	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 (IN)	TRIBUTARY WIDTH (IN)	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 (IN)	TRIBUTARY WIDTH (IN)	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 (IN)	TRIBUTARY WIDTH (IN)	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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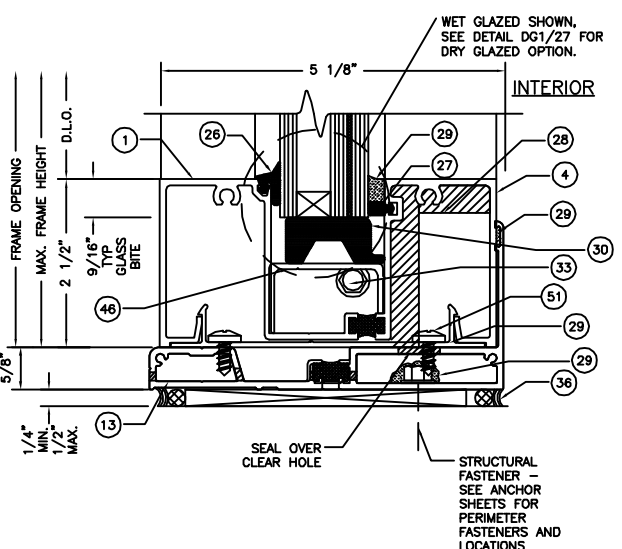
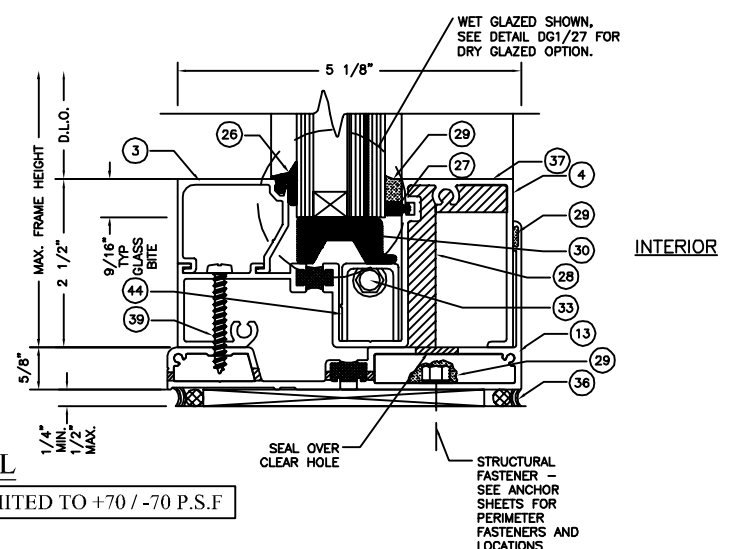
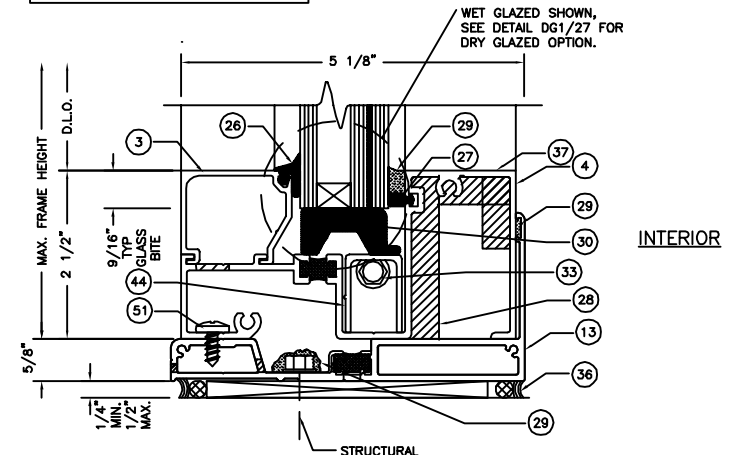
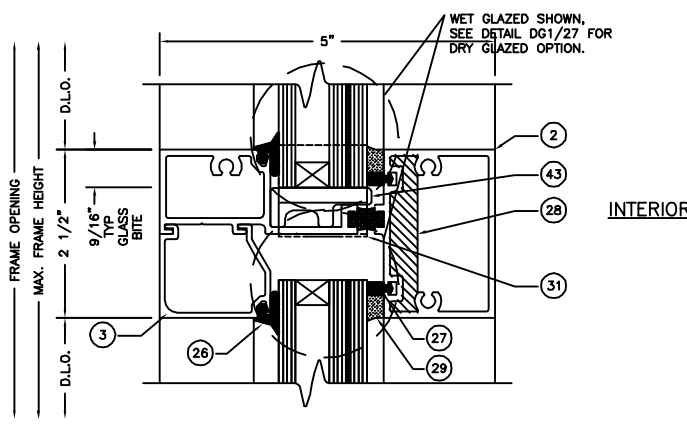
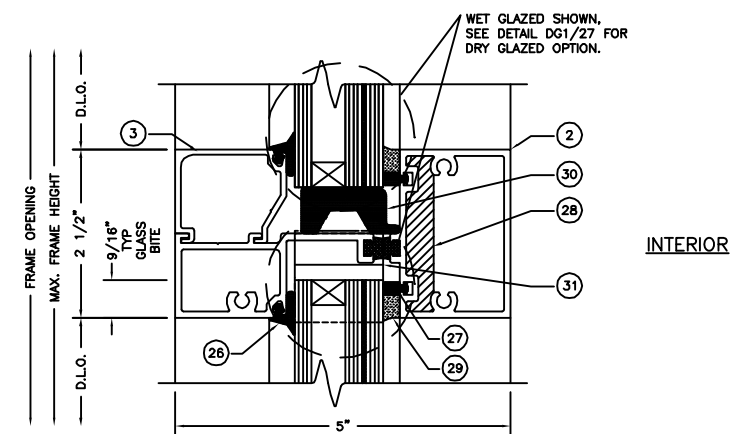
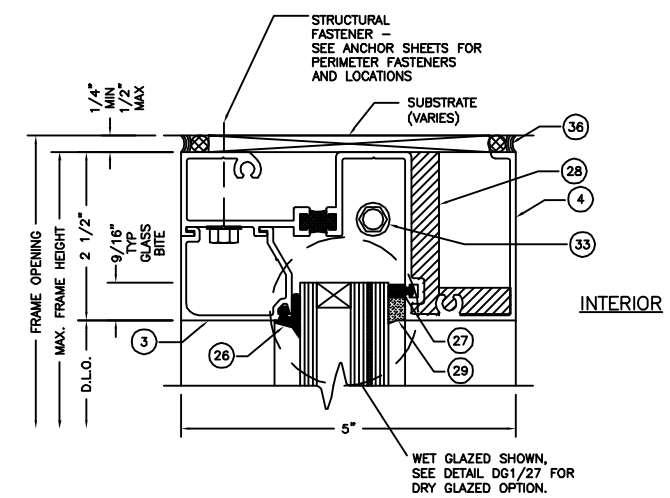
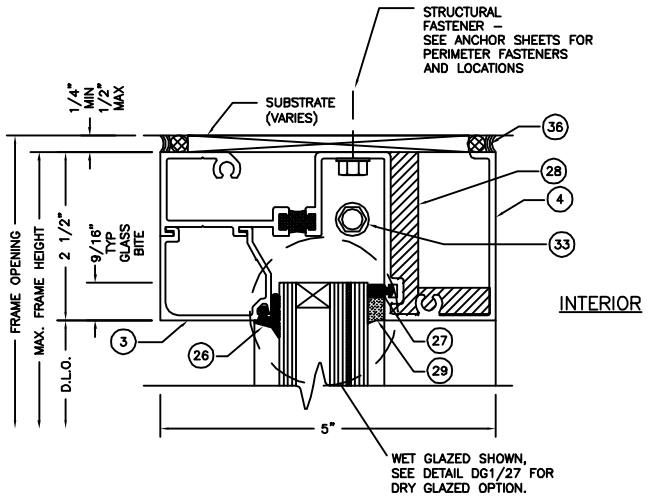
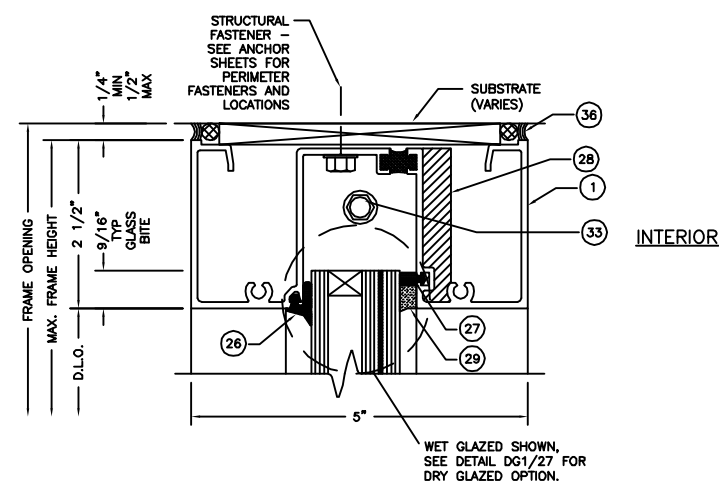
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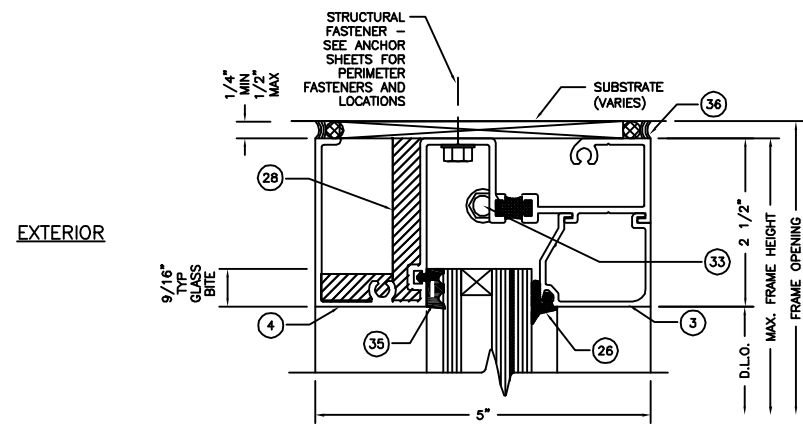
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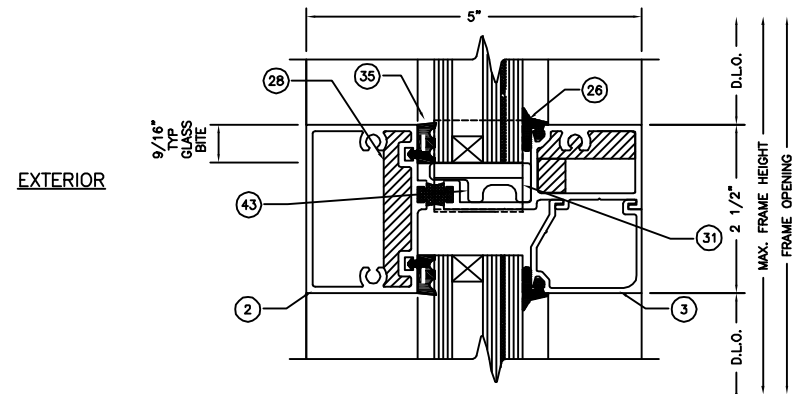
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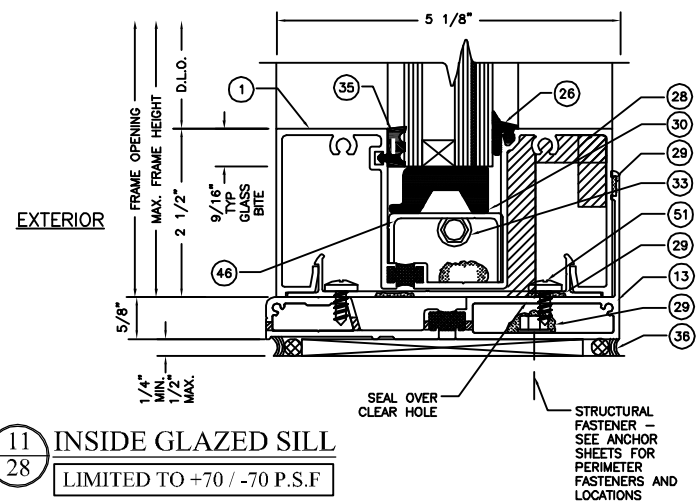
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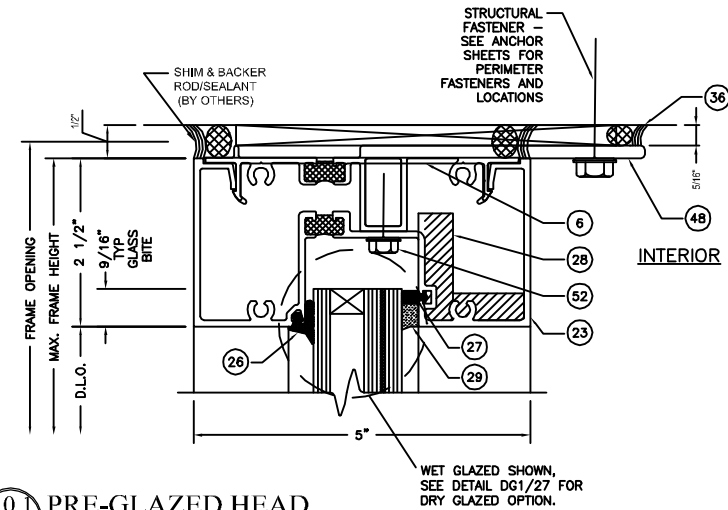
9
28 **INSIDE GLAZED HEAD**
LIMITED TO +70 / -70 P.S.F



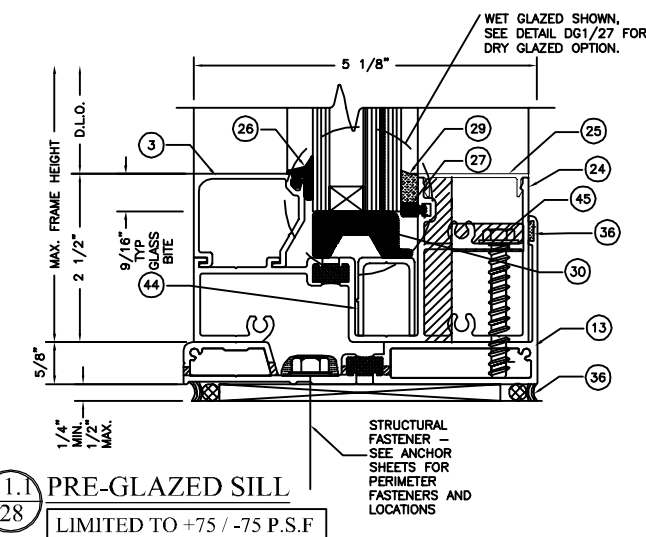
10
28 **INSIDE GLAZED INTERMEDIATE HORIZONTAL**



11
28 **INSIDE GLAZED SILL**
LIMITED TO +70 / -70 P.S.F



10.1
28 **PRE-GLAZED HEAD**
LIMITED TO +75 / -75 P.S.F



11.1
28 **PRE-GLAZED SILL**
LIMITED TO +75 / -75 P.S.F

LOCATE REINFORCEMENT FASTENERS
1" FROM EACH END.

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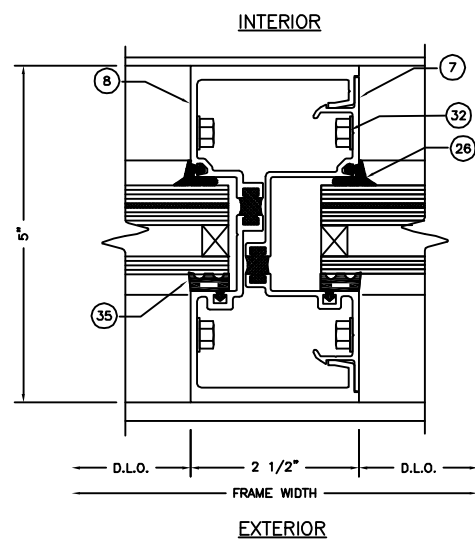
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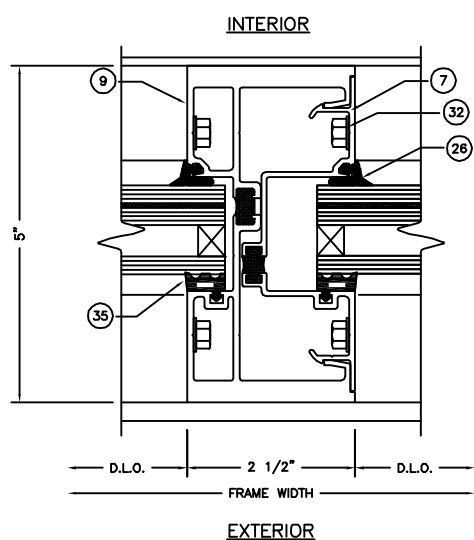
SCALE: NTS UNLESS NOTED

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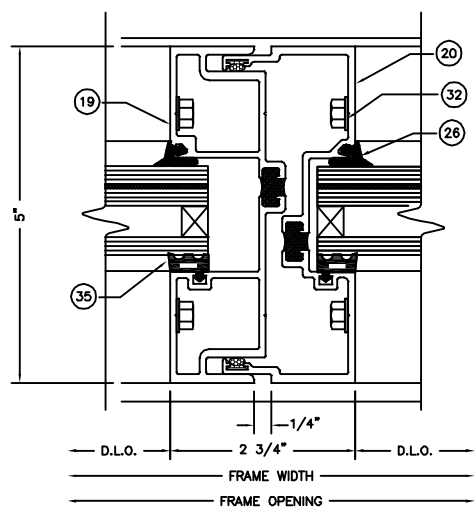
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12
29 INSIDE SET VERTICAL
M1

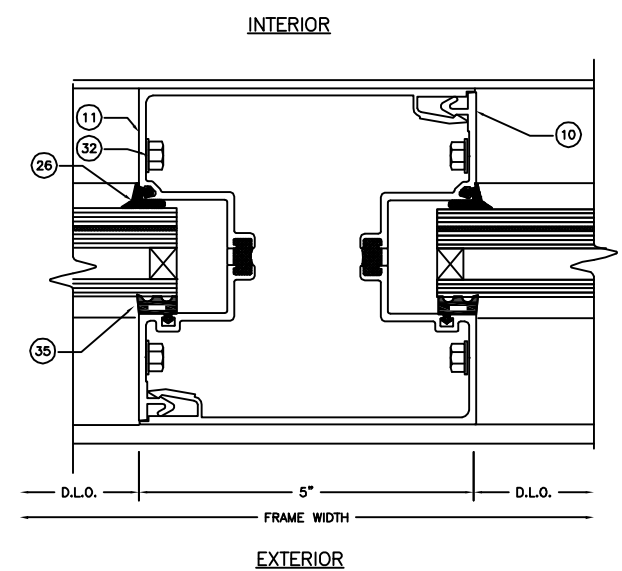


13
29 INSIDE SET HEAVY VERTICAL
M3

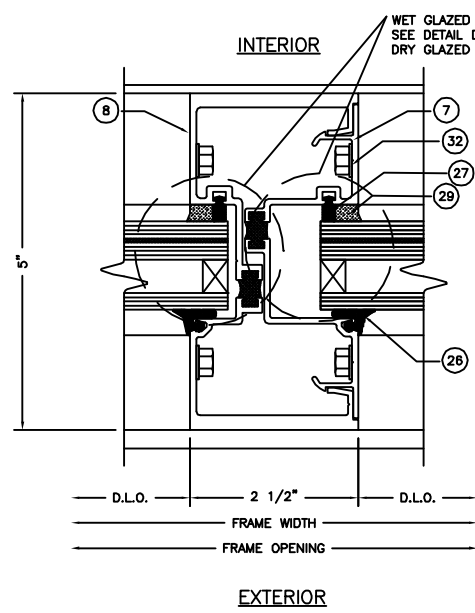


14
29 INSIDE SET EXPANSION
VERTICAL
M2

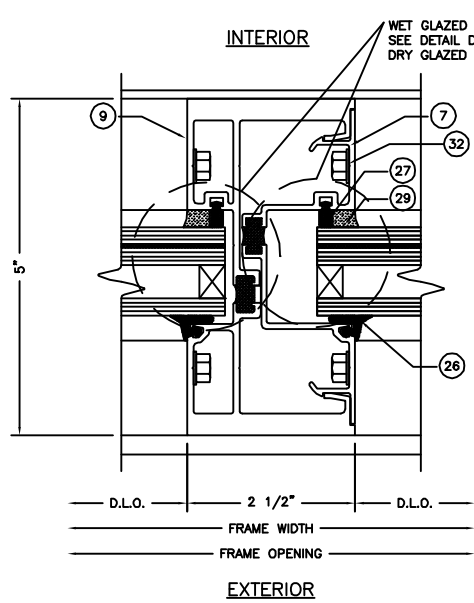
NOTE: APPROVED FOR USE
OUTSIDE HVHZ



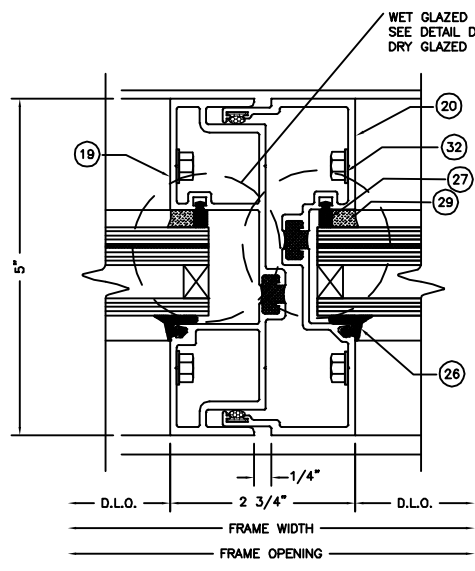
15
29 INSIDE SET 5" VERTICAL MULLION
M7



16
29 STANDARD VERTICAL
M1

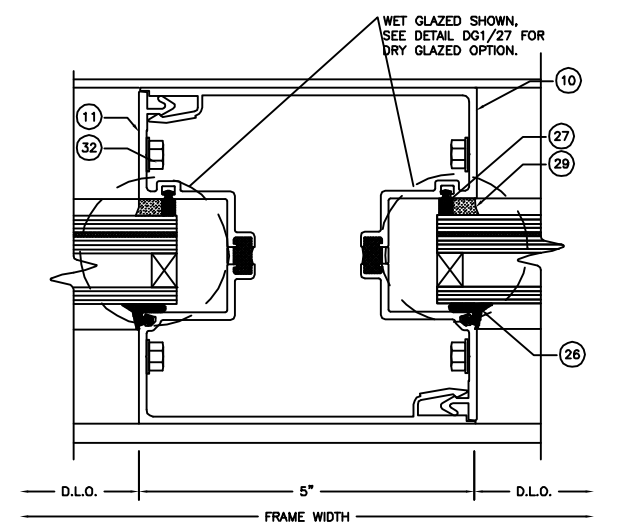


17
29 HEAVY VERTICAL
M4



18
29 EXPANSION VERTICAL
M2

NOTE: APPROVED FOR USE
OUTSIDE HVHZ



19
29 5" VERTICAL MULLION
M7



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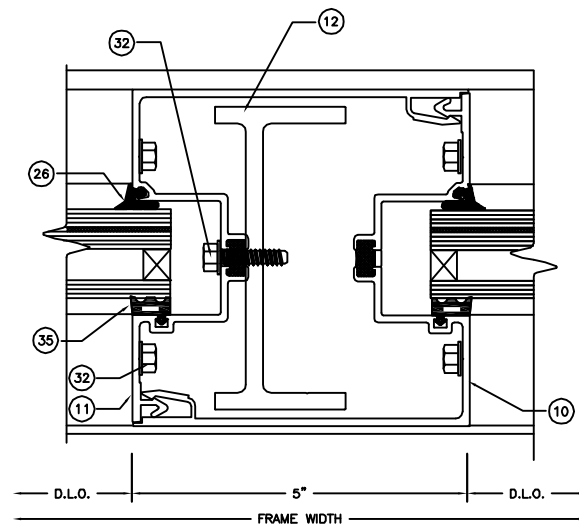
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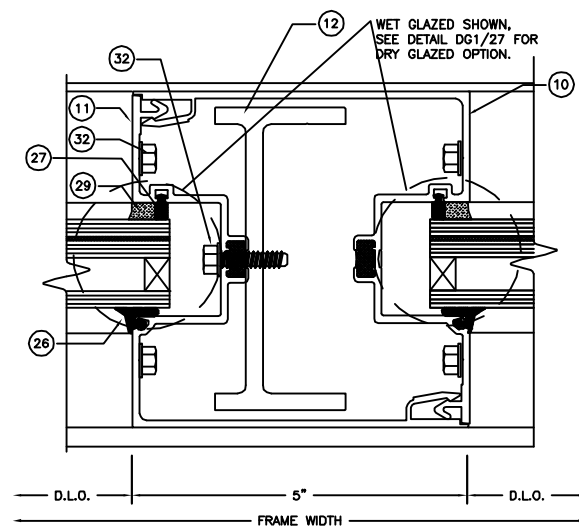
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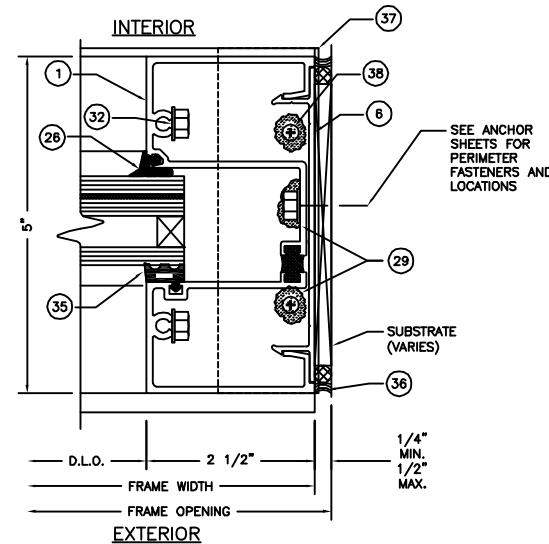
20 INSIDE SET 5" VERTICAL MULLION WITH FG-5720 REINFORCEMENT

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

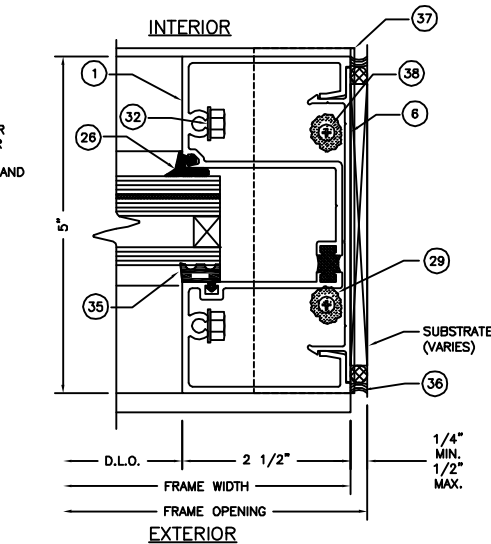


23 5" VERTICAL MULLION WITH FG-5720 REINFORCEMENT

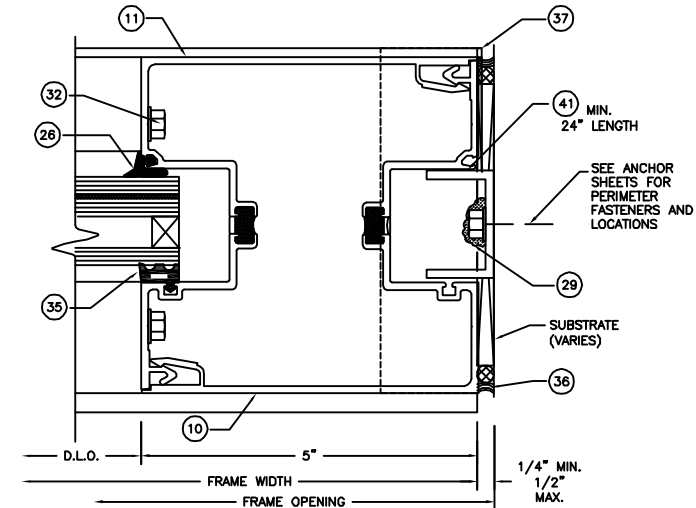
NOTE:
MULLION CAN BE USED UNDER SITE SPECIFIC ENGINEERING AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).



21 INSIDE SET JAMB VERTICAL

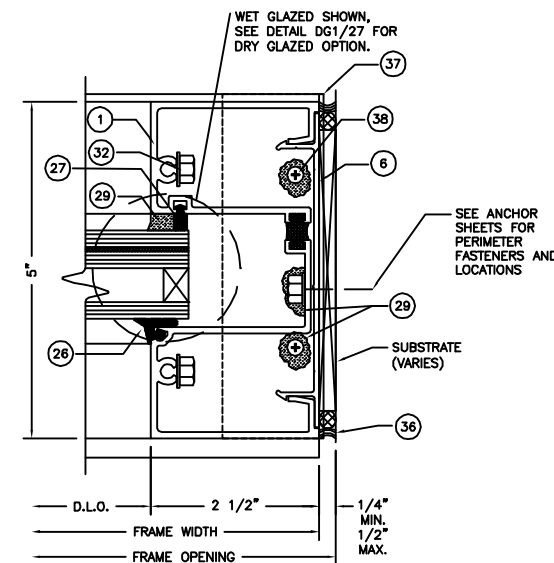


21.1 INSIDE SET JAMB VERTICAL (NON ANCHORED)

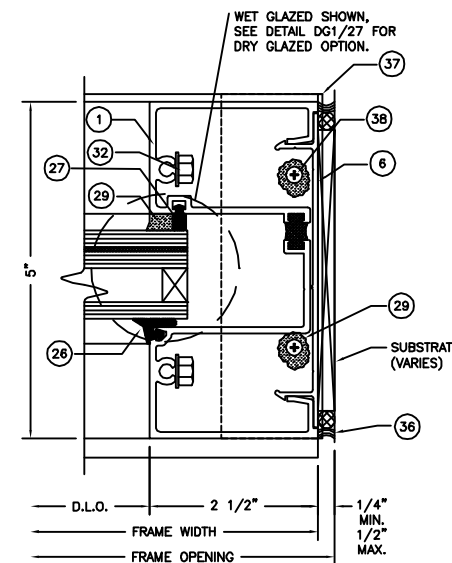


22 INSIDE SET 5" JAMB VERTICAL

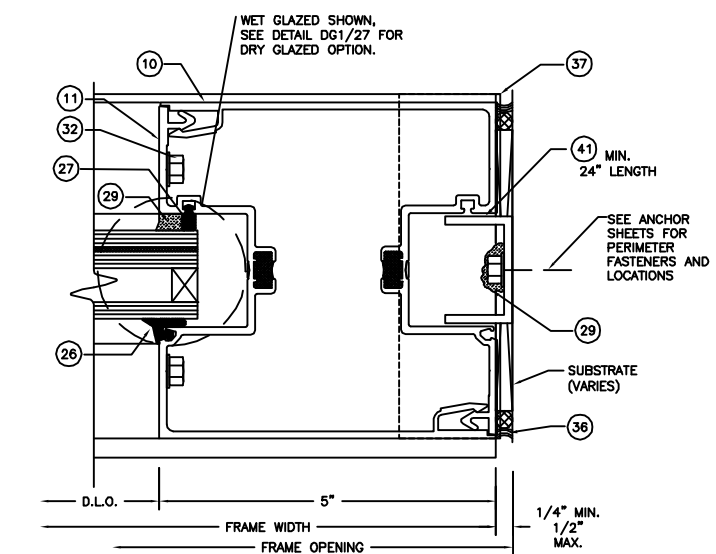
NOTE:
MULLION CAN BE USED UNDER SITE SPECIFIC ENGINEERING AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).



24 JAMB VERTICAL



24.1 JAMB VERTICAL (NON ANCHORED)



25 5" JAMB VERTICAL

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

LOCATE REINFORCEMENT FASTENERS
1" FROM EACH END.

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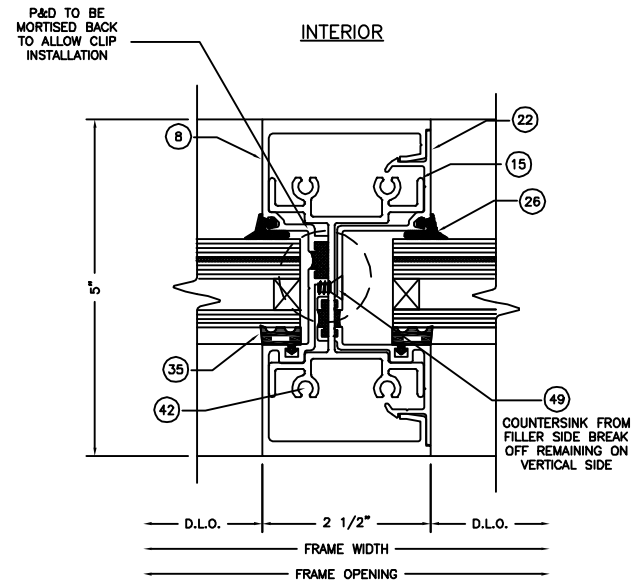
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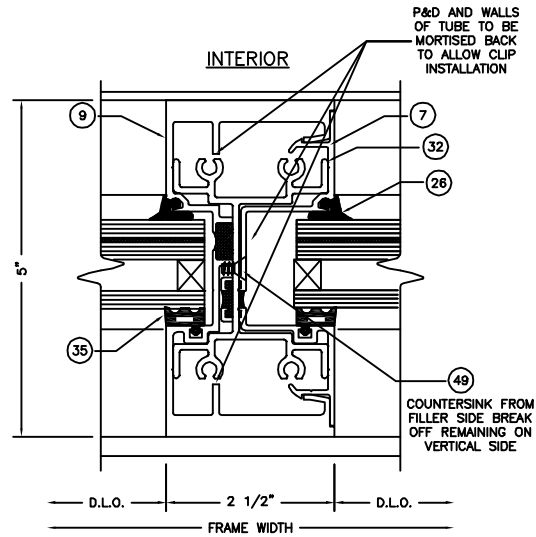
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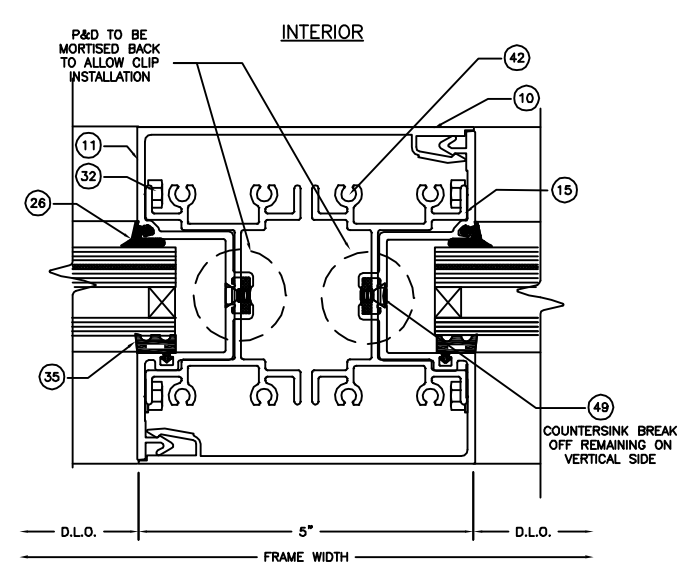
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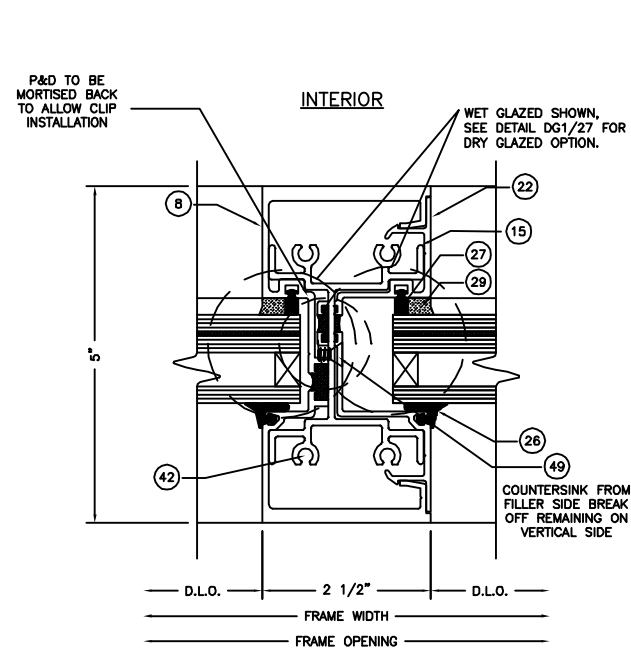
26
31 INSIDE SET CRIPPLED VERTICAL



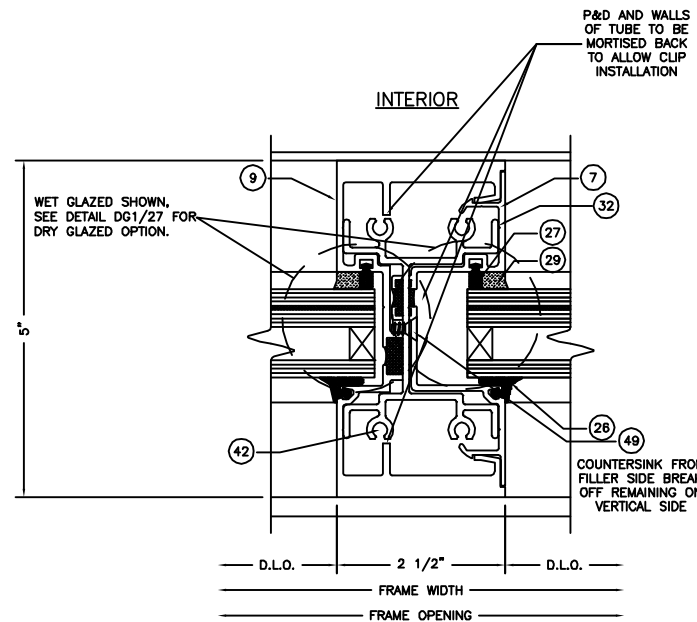
27
31 INSIDE SET CRIPPLED HEAVY VERTICAL



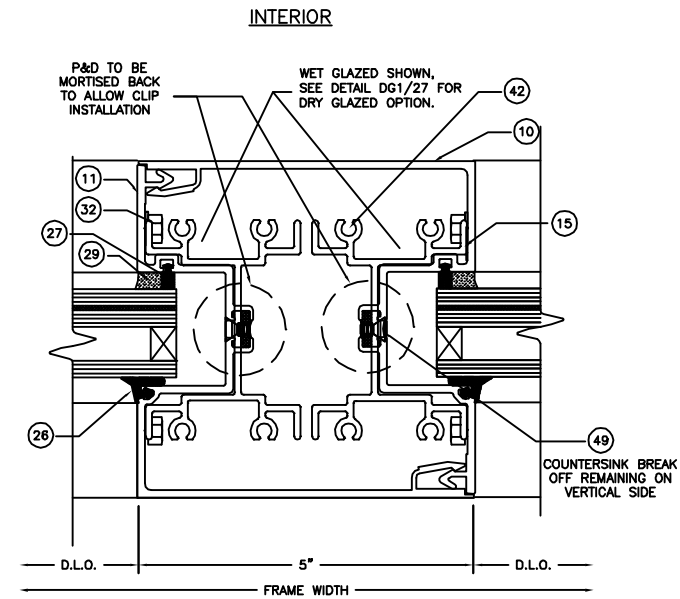
28
31 INSIDE SET CRIPPLED 5" VERTICAL MULLION



29
31 CRIPPLED VERTICAL



30
31 CRIPPLED HEAVY VERTICAL



31
31 CRIPPLED 5" VERTICAL MULLION

SHEAR BLOCKS USE FOUR
(4) 42 FASTENERS EACH.

NOTE:
CRIPPLED VERTICAL MULLIONS SHOWN
HEREIN CAN BE USED UNDER SITE SPECIFIC
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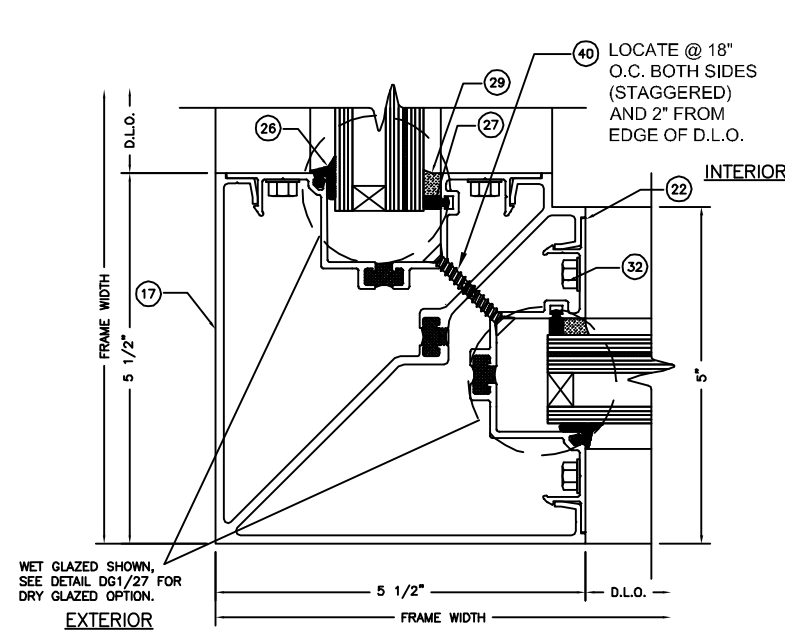
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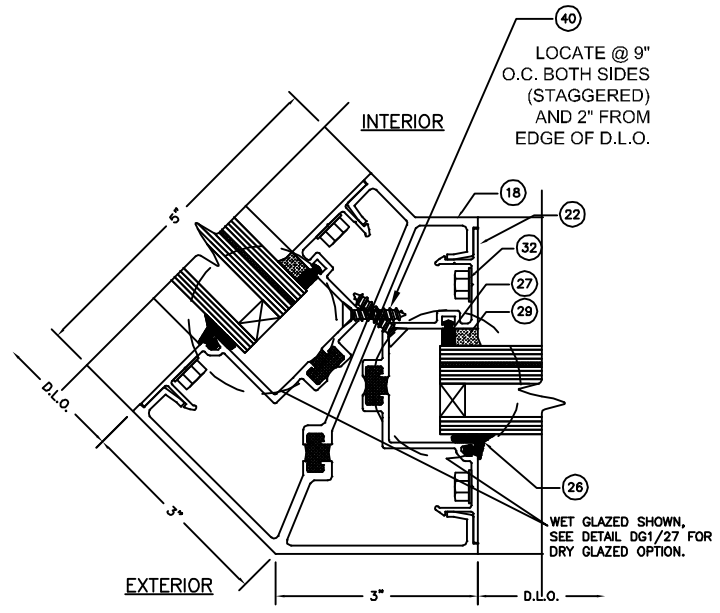
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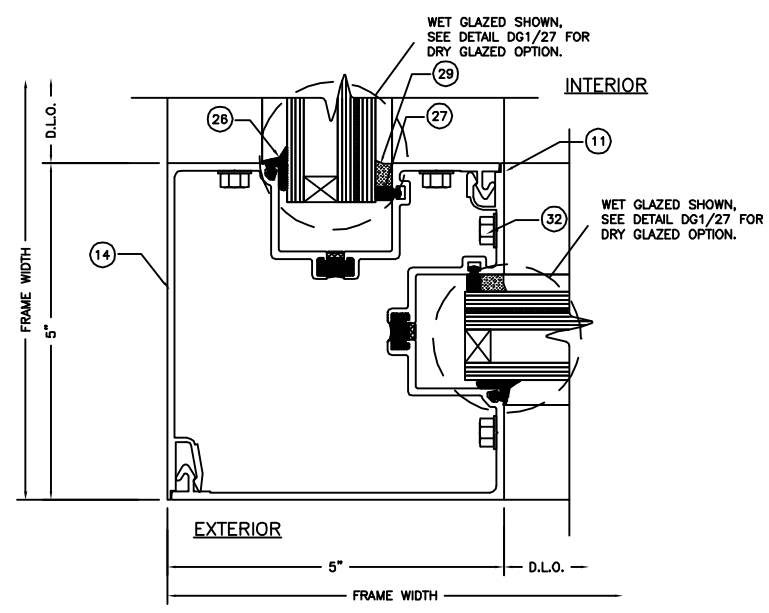
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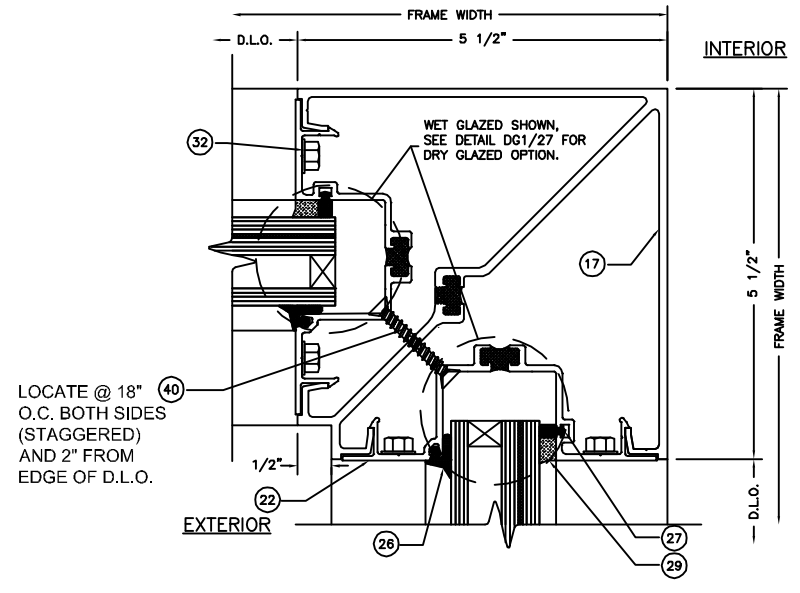
32 90° CORNER POST
32 M5
 NOTE: APPROVED FOR USE OUTSIDE HVHZ



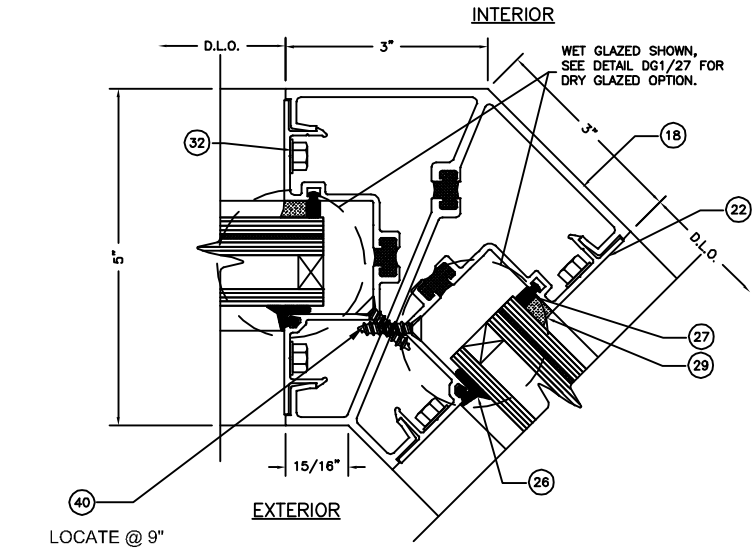
33 135° CORNER POST
32 M6
 NOTE: APPROVED FOR USE OUTSIDE HVHZ



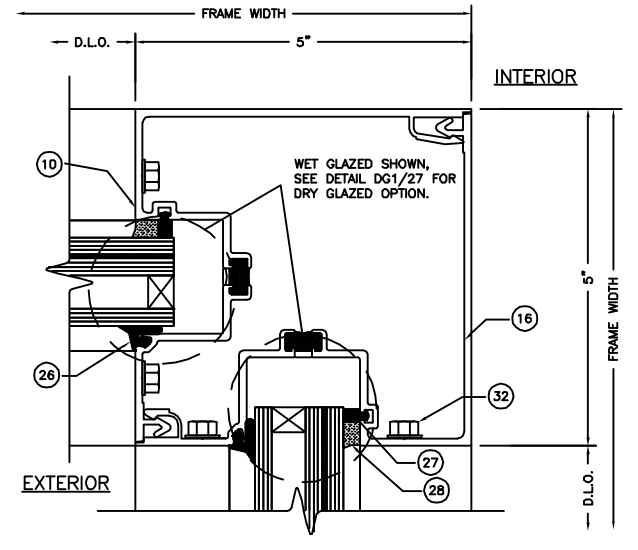
34 90° CORNER POST
32
 NOTE: MULLION CAN BE USED UNDER SITE SPECIFIC ENGINEERING AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).



35 90° INSIDE CORNER POST
32 M5
 NOTE: APPROVED FOR USE OUTSIDE HVHZ



36 135° INSIDE CORNER POST
32 M6
 NOTE: APPROVED FOR USE OUTSIDE HVHZ



37 INSIDE 90° CORNER ASSEMBLY
32
 NOTE: MULLION CAN BE USED UNDER SITE SPECIFIC ENGINEERING AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

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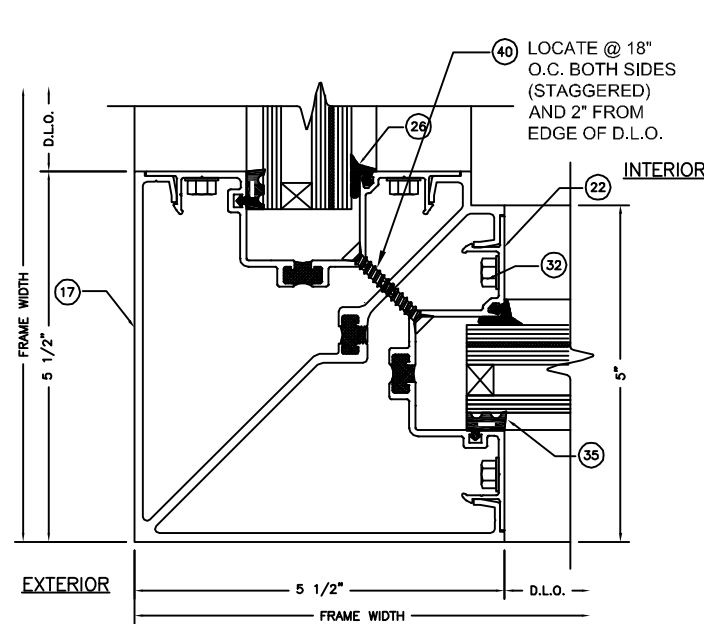
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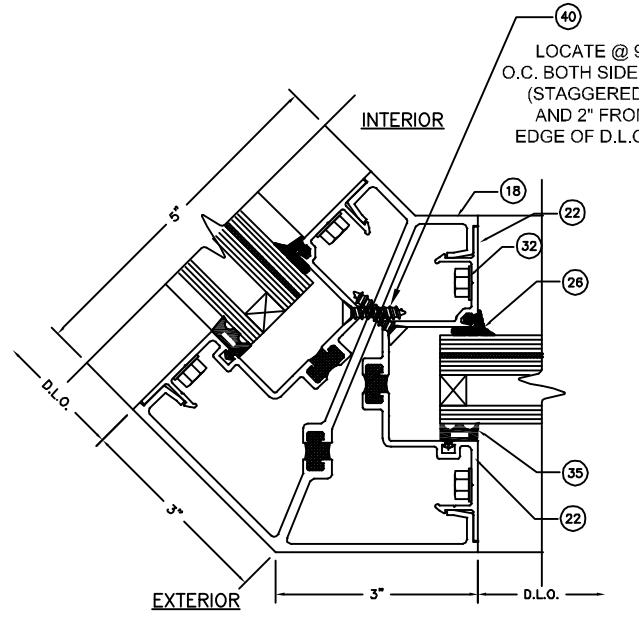
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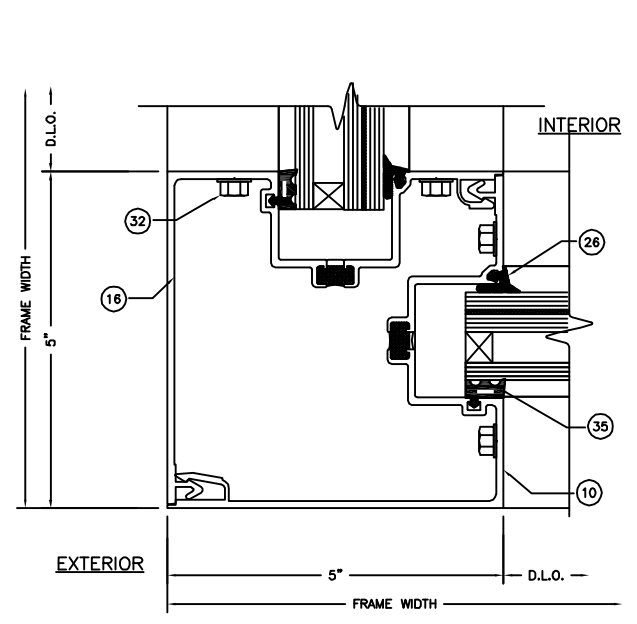
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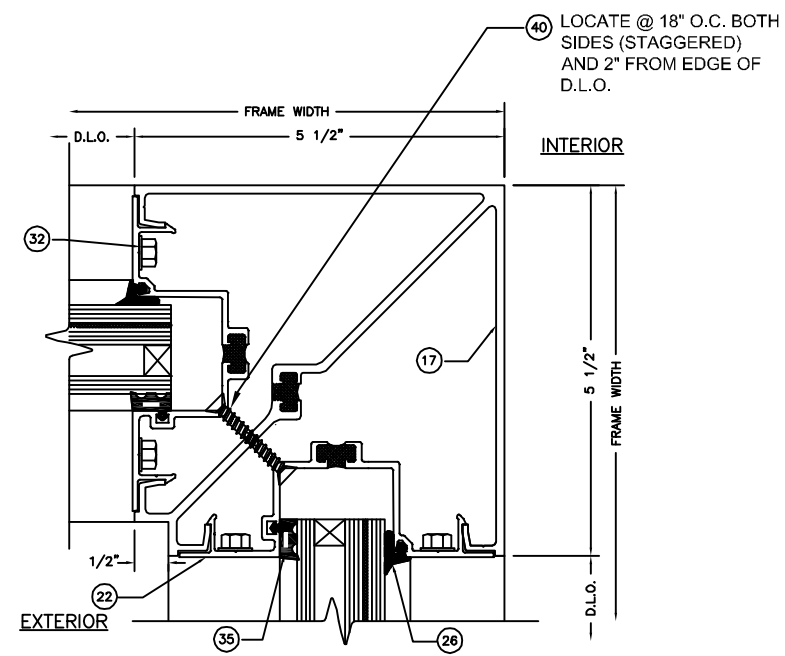
38 **33** **INSIDE SET 90° CORNER POST**
M5
 NOTE: APPROVED FOR USE OUTSIDE HVHZ



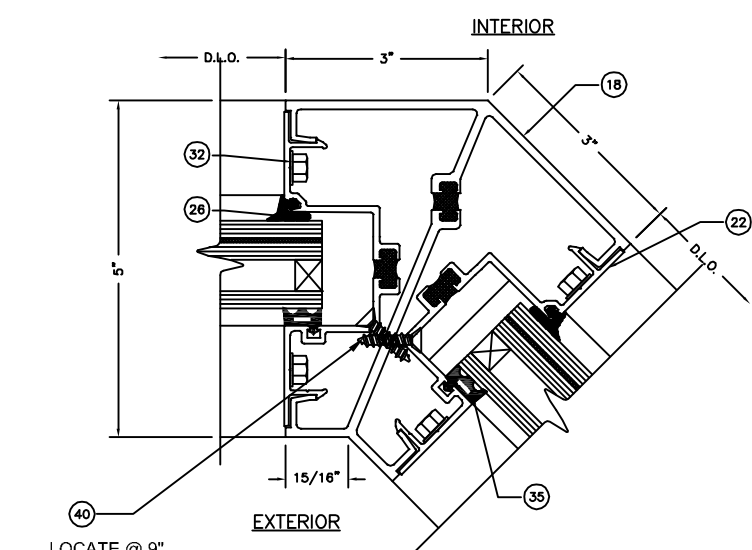
39 **33** **INSIDE SET 135° CORNER POST**
M6
 NOTE: APPROVED FOR USE OUTSIDE HVHZ



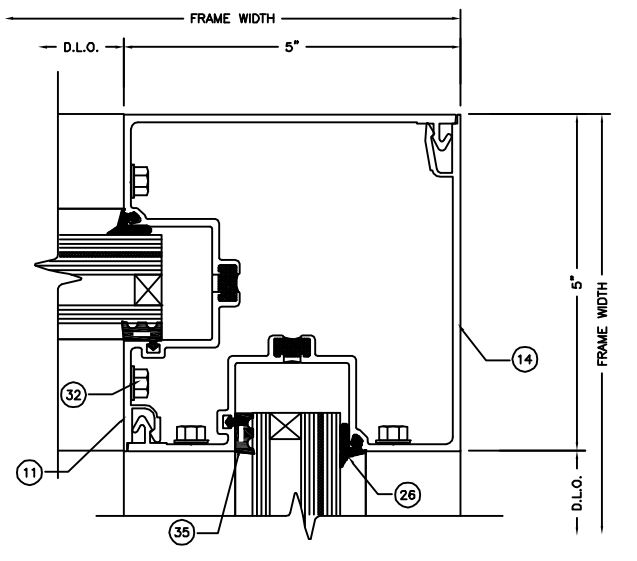
40 **33** **INSIDE SET 90° CORNER POST**
 NOTE: MULLION CAN BE USED UNDER SITE SPECIFIC ENGINEERING AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).



41 **33** **INSIDE SET 90° INSIDE CORNER POST**
M5
 NOTE: APPROVED FOR USE OUTSIDE HVHZ



42 **33** **INSIDE SET 135° INSIDE CORNER POST**
M6
 NOTE: APPROVED FOR USE OUTSIDE HVHZ



43 **33** **INSIDE SET INSIDE 90° CORNER ASSEMBLY**
 NOTE: MULLION CAN BE USED UNDER SITE SPECIFIC ENGINEERING AND SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).



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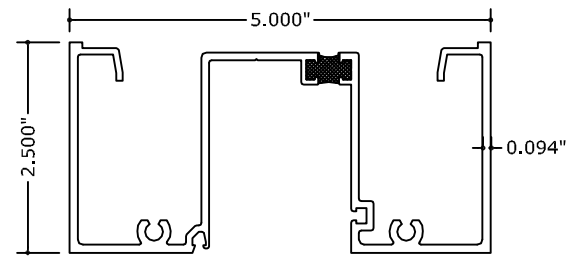
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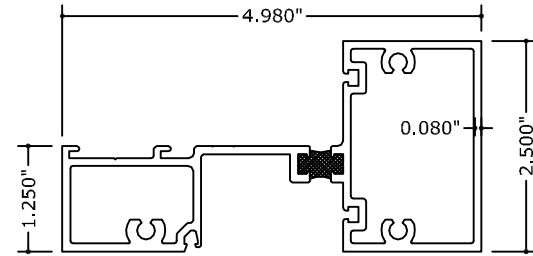
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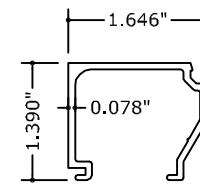
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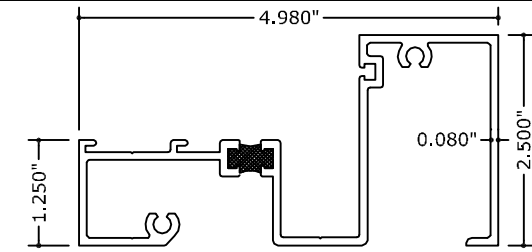
1 FGT-5770
HEAD/SILL/JAMB



2 FGT-5772
HORIZONTAL

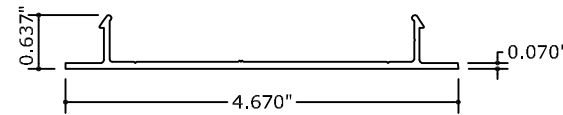


3 FG-5760
GLASS STOP

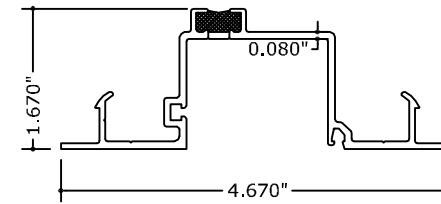


4 FGT-5771
SILL/HEAD

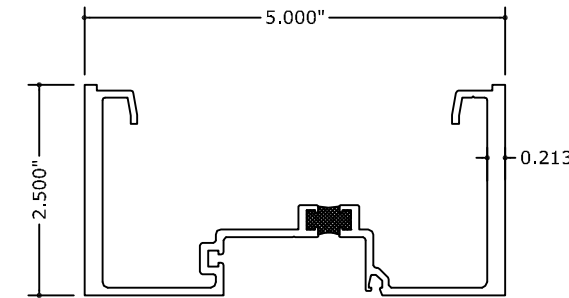
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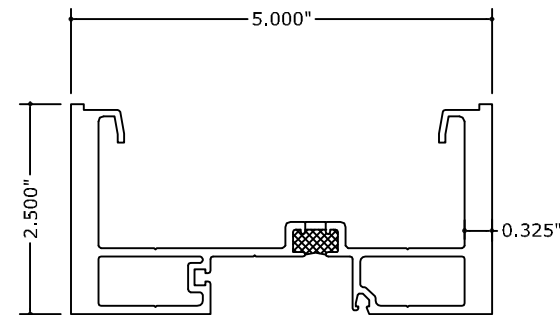
6 FG-5715
FLAT FILLER



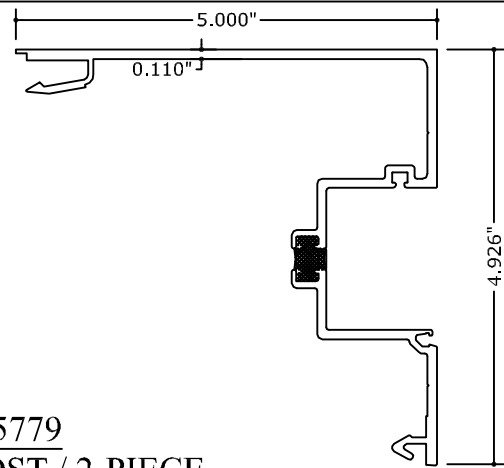
7 FGT-5780
SNAP-IN FILLER



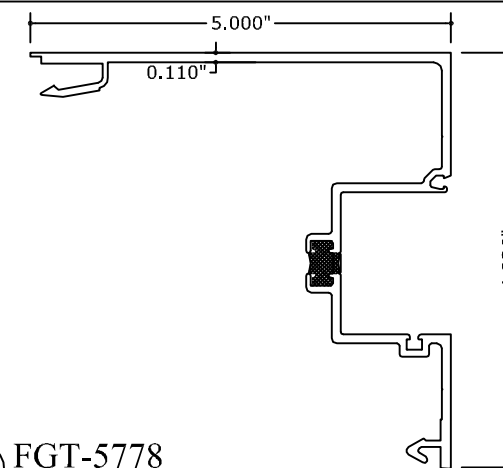
8 FGT-5773
STANDARD VERTICAL



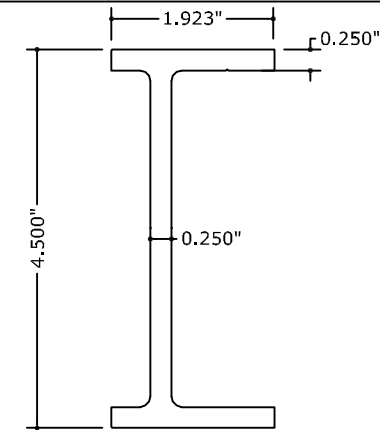
9 FGT-5774
HEAVY VERTICAL MULLION



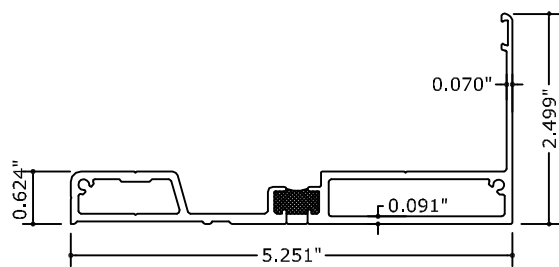
10 FGT-5779
5" POST / 2-PIECE
CORNER POST



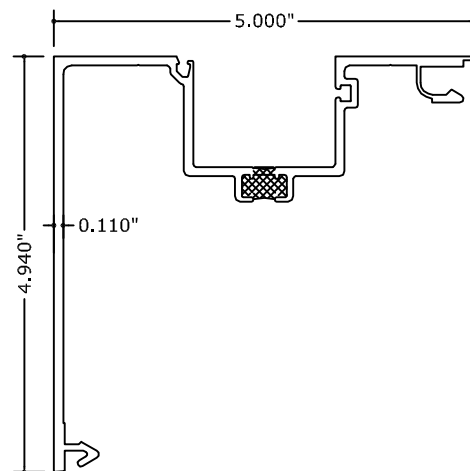
11 FGT-5778
5" VERTICAL POST



12 FG-5720
ALUMINUM STIFFENER

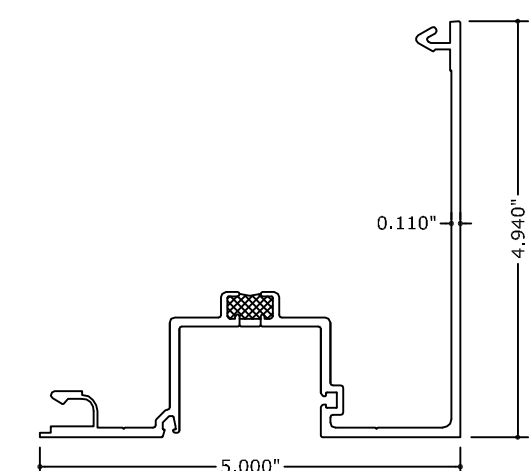


13 FGT-5712
5/8" SUBSILL



14 FGT-5784 5" POST /
2-PIECE CORNER POST

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16 FGT-5785 5" POST /
2-PIECE CORNER POST

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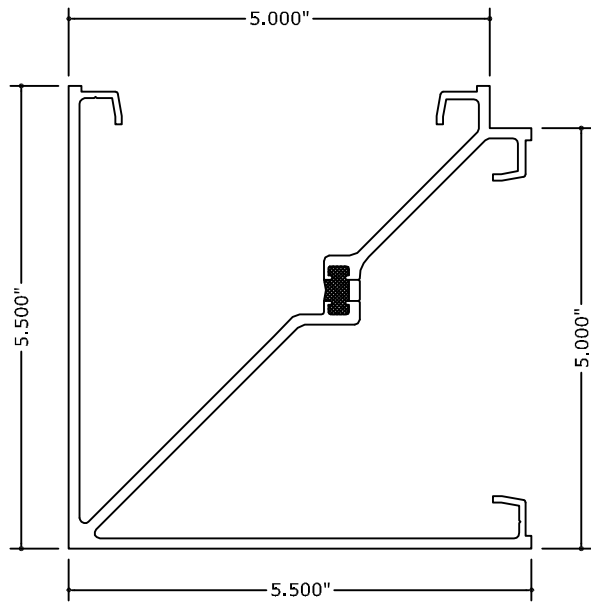
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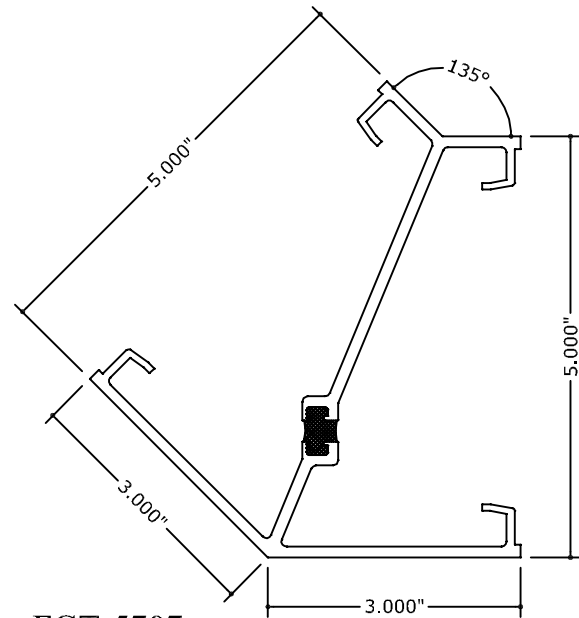
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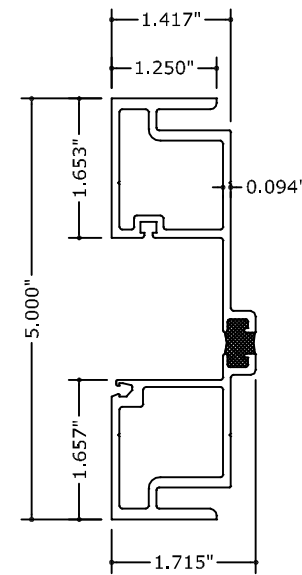
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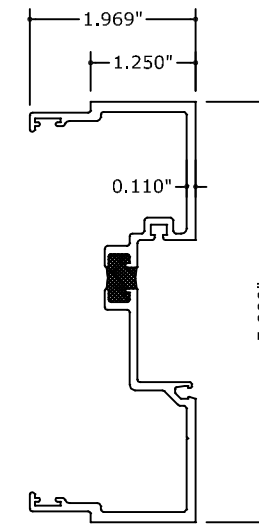
17 FGT-5706
90 DEGREE CORNER POST



18 FGT-5707
135 DEGREE CORNER POST

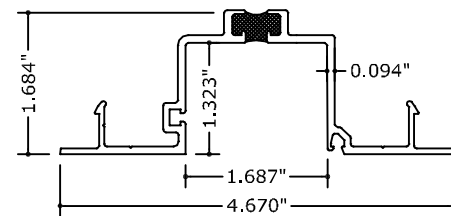


19 FGT-5782
EXPANSION MULLION (FEMALE)

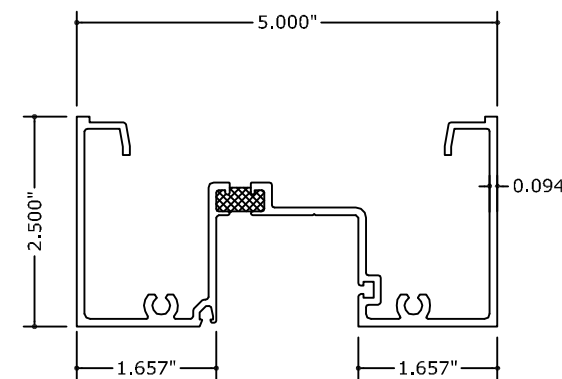


20 FGT-5783
EXPANSION MULLION (MALE)

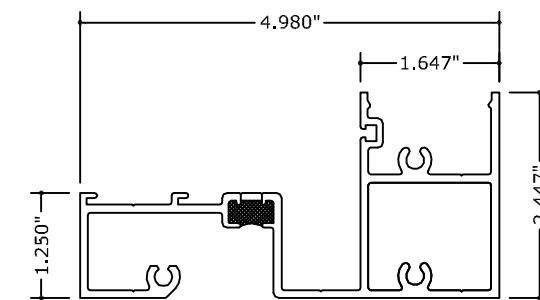
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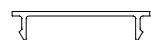
22 FGT-5781
DEEP POCKET FILLER



23 FGT-5786
PRE-GLAZED HEAD



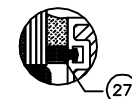
24 FGT-5787
PRE-GLAZED SILL



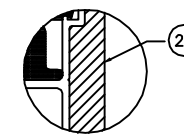
25 FG-5259
PRE-GLAZED SILL FILLER



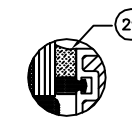
26 FG-5730
EXTERIOR GLAZING GASKET



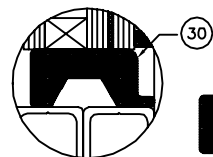
27 FG-5731
SPACER GASKET



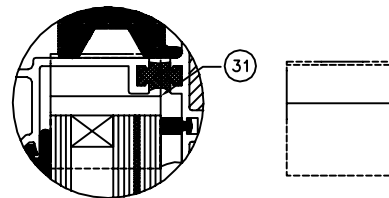
28 SM5601
JOINT TAPE



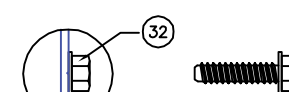
29 DOWSIL 995
SEALANT



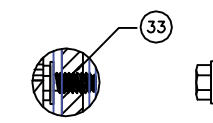
30 FG-5743
SETTING BLOCK



31 FG-5790-02
WATER DIVERTER



32 FS-8
JOINT FASTENER



33 FS-354
REINFORCEMENT FASTENER

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DRWN	CHKD	DATE
JEM	AJP	03/16/21

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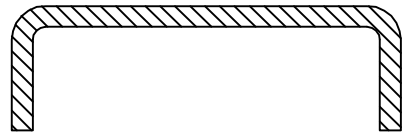
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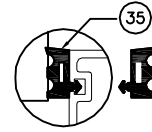
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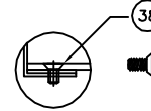
34 RS-30
STEEL REINFORCEMENT



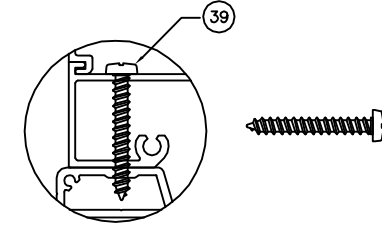
35 FG-5732
DRY GLAZE GASKET



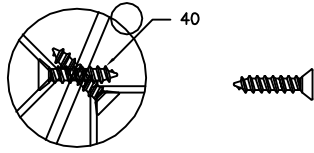
37 AN-101-01
SILL END DAM



38 FS-23
SILL END DAM
FASTENER



39 FS-229
SILL-SUBSILL FASTENER



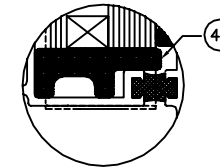
40 FS-58
CORNER ASSEMBLY FASTENER



41 CH55
U-CHANNEL



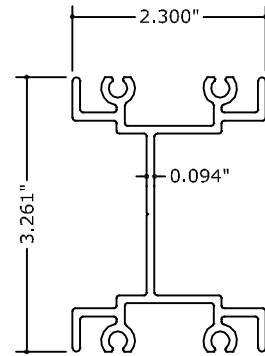
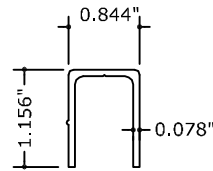
42 FS-96
SHEAR BLOCK
FASTENER



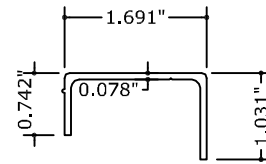
43 FG-5763
SETTING BLOCK



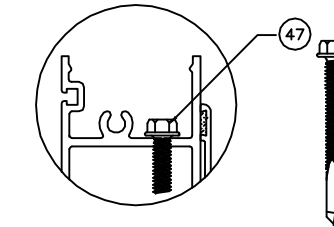
44 FG-5721-01
SETTING CHAIR



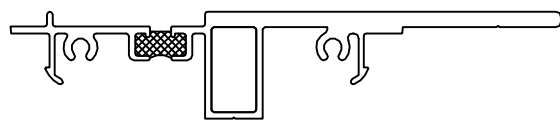
45 FG-5714-01
SHEAR BLOCK



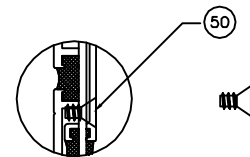
46 FG-5723-01
SETTING CHAIR



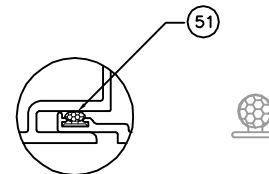
47 FS-128
PRE-GLAZE SILL FASTENER



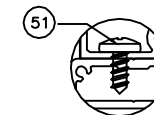
48 FGT-5788-01
PRE-GLAZE HEAD
ANCHOR



49 FS-56
FG-5714 FASTENER



50 CW-998
EXPANSION
MULL GASKET



51 FS-27
FASTENER



52 FS-336
FASTENER

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BILL OF MATERIALS

ITEM NO.	P/N	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
ALUMINUM PARTS						
1	FGT-5770	HEAD/SILL/JAMB	2.500 x 5.000 x 0.094	6063-T6 ALUMINUM	OBE	
2	FGT-5772	HORIZONTAL MULLION	2.500 x 4.980 x 0.094	6063-T6 ALUMINUM	OBE	
3	FG-5760	GLASS STOP	1.250 x 1.650 x 0.078	6063-T6 ALUMINUM	OBE	
4	FGT-5771	HEAD/SILL	2.500 x 4.980 x 0.094	6063-T6 ALUMINUM	OBE	
5	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	FGT-5780	SNAP-IN FILLER	0.681 x 4.670 x 0.080	6063-T6 ALUMINUM	OBE	
8	FGT-5773	VERTICAL MULLION	2.500 x 5.000 x 0.094	6063-T6 ALUMINUM	OBE	
9	FGT-5774	HEAVY MULLION	2.500 x 5.000 x 0.213	6063-T6 ALUMINUM	OBE	
10	FGT-5779	5" VERTICAL POST	5.000 x 4.941 x 0.110	6063-T6 ALUMINUM	OBE	
11	FGT-5778	5" VERTICAL POST	4.941 x 5.000 x 0.110	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"
13	FGT-5712	5/8" SUBSILL	5.276 x 2.750 x 0.100	6063-T6 ALUMINUM	OBE	
14	FGT-5784	5" CORNER POST	5.000 x 4.940 x 0.110	6063-T6 ALUMINUM	OBE	
	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	
16	FGT-5785	5" CORNER POST	5.000 x 4.940 x 0.110	6063-T6 ALUMINUM	OBE	
17	FGT-5706	90° CORNER MULLION	5.500 X 5.500 X 0.125	6063-T6 ALUMINUM	OBE	
18	FGT-5707	135° CORNER MULLION	3.000 x 5.000 x 0.125	6063-T6 ALUMINUM	OBE	
19	FGT-5782	EXPANSION MULLION (FEMALE)	1.715 x 5.000 x 0.094	6063-T6 ALUMINUM	OBE	
20	FGT-5783	EXPANSION MULLION (MALE)	1.969 x 5.000 x 0.110	6063-T6 ALUMINUM	OBE	
	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	
22	FGT-5781	DEEP POCKET FILLER	0.681 x 4.670 x 0.080	6063-T6 ALUMINUM	OBE	
23	FGT-5786	PRE-GLAZE HEAD	2.500 X 5.000 X 0.094	6063-T6 ALUMINUM	OBE	
24	FGT-5787	PRE-GLAZE SILL	2.446 X 5.000 X 0.094	6063-T6 ALUMINUM	OBE	
25	FG-5259	PRE-GLAZE SILL FILLER	.344 X 1.638 X 0.050	6063-T5 ALUMINUM	OBE	

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BILL OF MATERIALS

ITEM NO.	P/N	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
ACCESSORY PARTS						
26	FG-5730	EXTERIOR GLAZING GASKET	0.120 SPACE	EPDM	VARIES	
27	FG-5731	SPACER GASKET	0.250 SPACE	EPDM	VARIES	
28	SM5601	JOINT SEALANT TAPE	0.500 x 0.125 x VARIES	POLYISOBUTYLENE	SCHNEE-MOOREHEAD	
29	DOWSIL 995	STRUCTURAL SEALANT	--	SILICONE	DOW CHEMICAL COMPANY	FOR WET GLAZING AND FRAME ASSEMBLY
30	FG-5743	SETTING BLOCK	1.468 x 0.688 x 4.000	EPDM	VARIES	2 PER LITE
31	FG-5790-02	WATER DIVERTER	1.358 x 1.312 x 0.050	INJECTION MOLDED PLASTIC	OBE	AT EACH END OF INTERMEDIATE HORIZONTALS
32	FS-8	FASTENER	#14 x 1" HHSTS	STEEL (DACROMET)	VARIES	(4) FASTENERS PER SIDE (2" FROM MULLION & 2" ON CENTER, 4 PER SIDE).
33	FS-354	FASTENER	#1/4-20 x 3/8" HEXHEAD TYPE F	STEEL (GEOMET)	VARIES	REINFORCEMENT SCREW, 1" FROM EACH END
34	RS-30	STEEL REINFORCEMENT	4.562 x 1.250 x 0.250	STEEL	VARIES	ASTM A-36
35	FG-5732	DRY GLAZE GASKET	0.250 SPACE	EPDM	VARIES	
36	DOWSIL 795	PERIMETER SEALANT	--	SILICONE	DOW CHEMICAL COMPANY	
37	AN-101-01	SILL FLASHING END DAM	2.688 x 0.625 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-58	FASTENER	#10 x 1" PHILLIPS FLAT HEAD	STAINLESS STEEL	VARIES	USED AT CORNERS
41	CH55	U-CHANNEL	1.000 x 1.593 x 0.125"	6063-T6 ALUMINUM	OBE	
42	FS-96	FASTENER	#12 x 2-1/2" PPH SMS A pt	STEEL (GEOMET)	VARIES	SHEAR BLOCK SCREW
43	FG-5763	SETTING BLOCK	0.579 x 0.250 x 1.500	EPDM	VARIES	
44	FG-5721-01	SETTING CHAIR	1.156 x 0.844 x 0.078	6063-T6 ALUMINUM	OBE	2 PER LITE, 4" LONG
45	FG-5714-01	SHEAR BLOCK	2.300 x 3.261 x 0.094	6063-T6 ALUMINUM	OBE	2" IN LENGTH
46	FG-5723-01	SETTING CHAIR	1.031 x 1.691 x 0.078	6063-T6 ALUMINUM	OBE	2 PER LITE, 4" LONG
47	FS-128	FASTENER	5/16"x24x 2" HEX WASHER HEAD	STEEL (DACROMET)	VARIES	(2) FASTENERS PER SIDE (1 1/2" AND 4 1/2" ON EACH SIDE OF MULLION)
48	FGT-5788-01	PRE-GLAZE HEAD ANCHOR	1.679 x 0.588 x 4.000	6063-T6 ALUMINUM	OBE	
49	FS-56	FASTENER	#10 X 1/2" UCPFH SMS	STAINLESS STEEL	VARIES	
50	CW-998	BULB GASKET		FOAM-TITE BULB	AMESBURY	
51	FS-27	FASTENER (SILL-TO-SUBSILL)	#12 x 1/2" PPH SMS A pt	STEEL (DRACOMET)	VARIES	LOCATE (2) SPACED @ 1-1/2" OFF EACH SIDE OF VERTICAL
52	FS-336	FASTENER	1/4-20 x 1-1/8" HWH KWIKFLEX		HILTI	(2) FASTENERS PER SIDE (1 1/2" AND 4 1/2" ON EACH SIDE OF MULLION)

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