

Oldcastle BuildingEnvelope®

FG-5700 STORMMAX® STOREFRONT SYSTEM MONOLITHIC IMPACT STOREFRONT LARGE MISSILE (WET AND DRY GLAZED) FOR HIGH VELOCITY HURRICANE ZONES

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022

FL#20665.1

ENGINEERING EXPRESS®
POSTAL ADDRESS:
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OLDCASTLE BUILDING ENVELOPE®
803 AIRPORT ROAD
TERRELL, TX 75160
(972) 551-6100
FG-5700 STOREMAX® STOREFRONT SYSTEM
WET & DRY GLAZED

REMARKS	DATE	DRWN	CHKD
INIT ISSUE	09/17/20	JEM	AJP
REVISIONS	03/11/22	SSG	RS

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GENERAL NOTES:

- THIS SYSTEM AND GLASS TYPES DESCRIBED HEREIN COMPLY AND HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SEVENTH EDITION (2020) PER
 - ASTM E330-14, E331-00, E283-04
 - TAS 201 / 202 / 203
 - AAMA 501-5
 - ANSI Z97.1-2015 (400 ft-lb. IMPACT)
 - ALUMINUM DESIGN MANUAL 2015, ASCE 7-16
- 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.
- FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- 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.
- 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.
- 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.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- 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
- 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.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION)
- PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:

Oldcastle BuildingEnvelope®
803 AIRPORT ROAD
TERRELL, TEXAS 75160
TAS 201/202/203

SHEET INDEX

# SHEET	DESCRIPTION
01	COVER SHEET
02-03	ELEVATIONS
04	GLAZING DETAILS
05-08	GLASS LOADING TABLES
09	MULLION & JAMB LOADING DETERMINATION
10-14	MULLION LOADING TABLES
15-27	FASTENER SCHEDULE & ANCHOR CHARTS
28-33	STANDARD FRAMING DETAILS
34-36	PART DRAWINGS
37	BILL OF MATERIALS
37	TOTAL

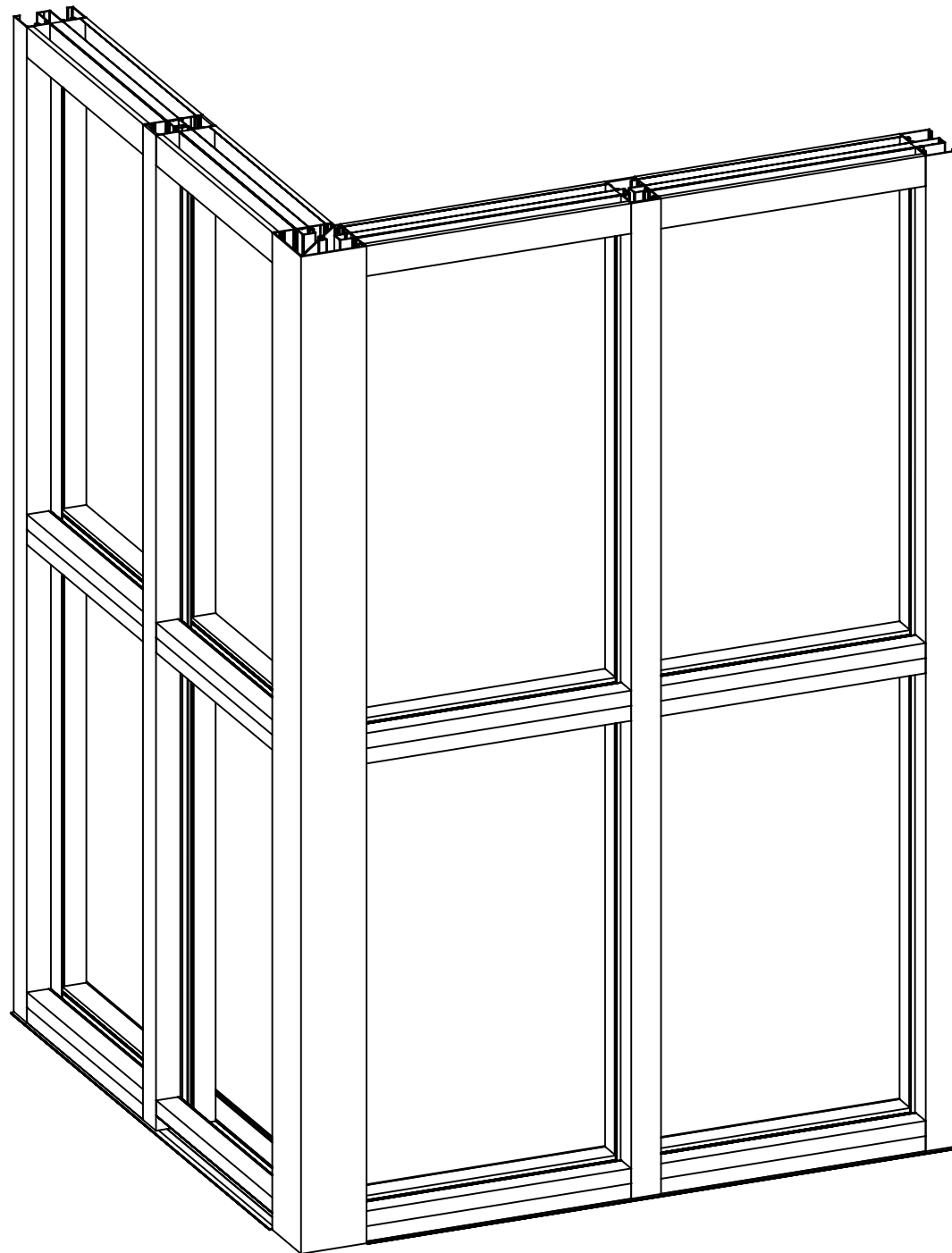
DESIGN PRESSURE

WATER INFILTRATION 15 PSF
AIR INFILTRATION 6.24 PSF
MAXIMUM DESIGN PRESSURE = +/- 90 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 FLORIDA BUILDING CODE.
MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF CURRENT FLORIDA BUILDING CODE.

VISIT ECALC.IO/2029229f

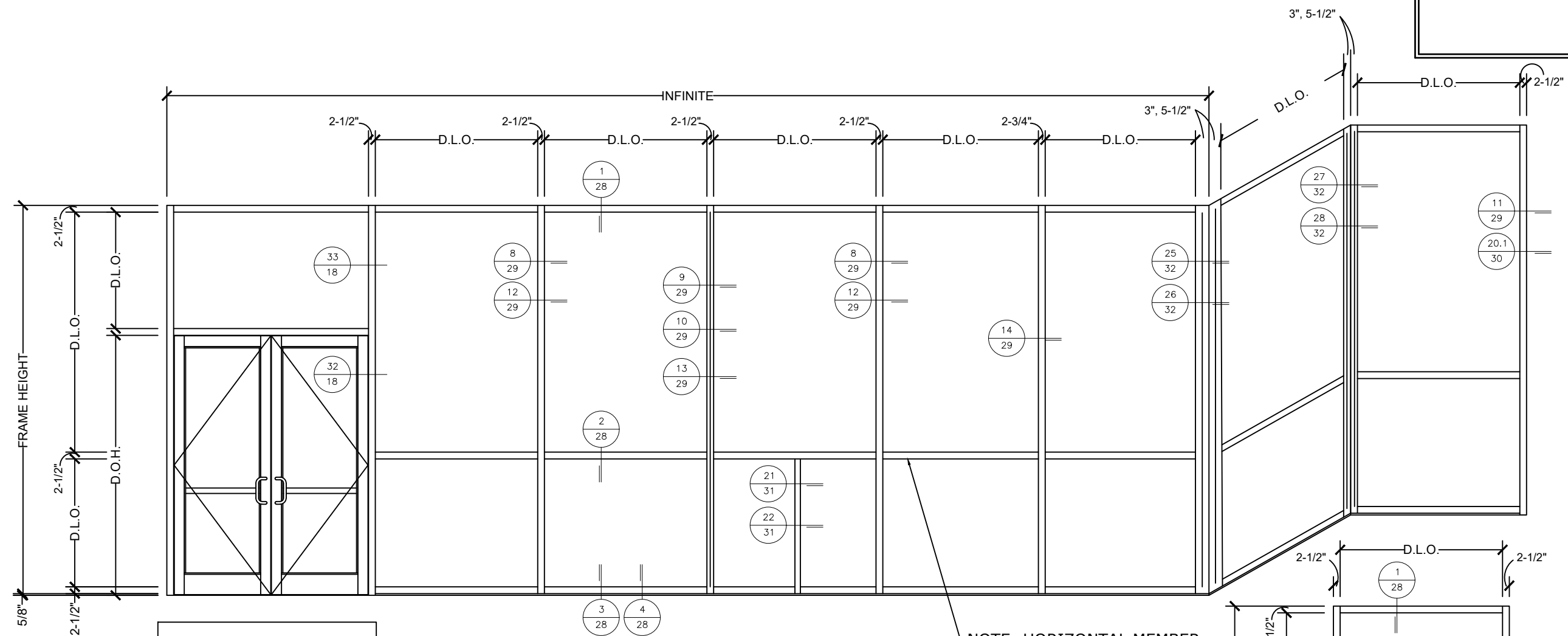
FOR HELPFUL RESOURCES, SITE SPECIFIC JOB ORDERING & MORE INFORMATION ABOUT THIS PRODUCT & RELATED SERVICES

SCAN HERE:



Frank Bennardo
PE# 0046549 CA# 9885

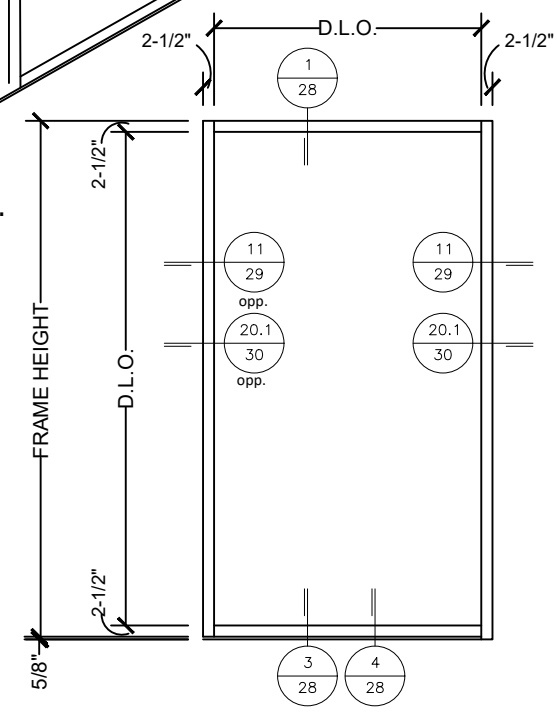
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SEE SEPARATE SUBMITTAL FOR IMPACT DOOR APPROVAL

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

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



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 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 28) AND FASTENER SCHEDULE (PAGES 15-24) 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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FG-5700 STOREMAX[®] STOREFRONT SYSTEM
WET & DRY GLAZED

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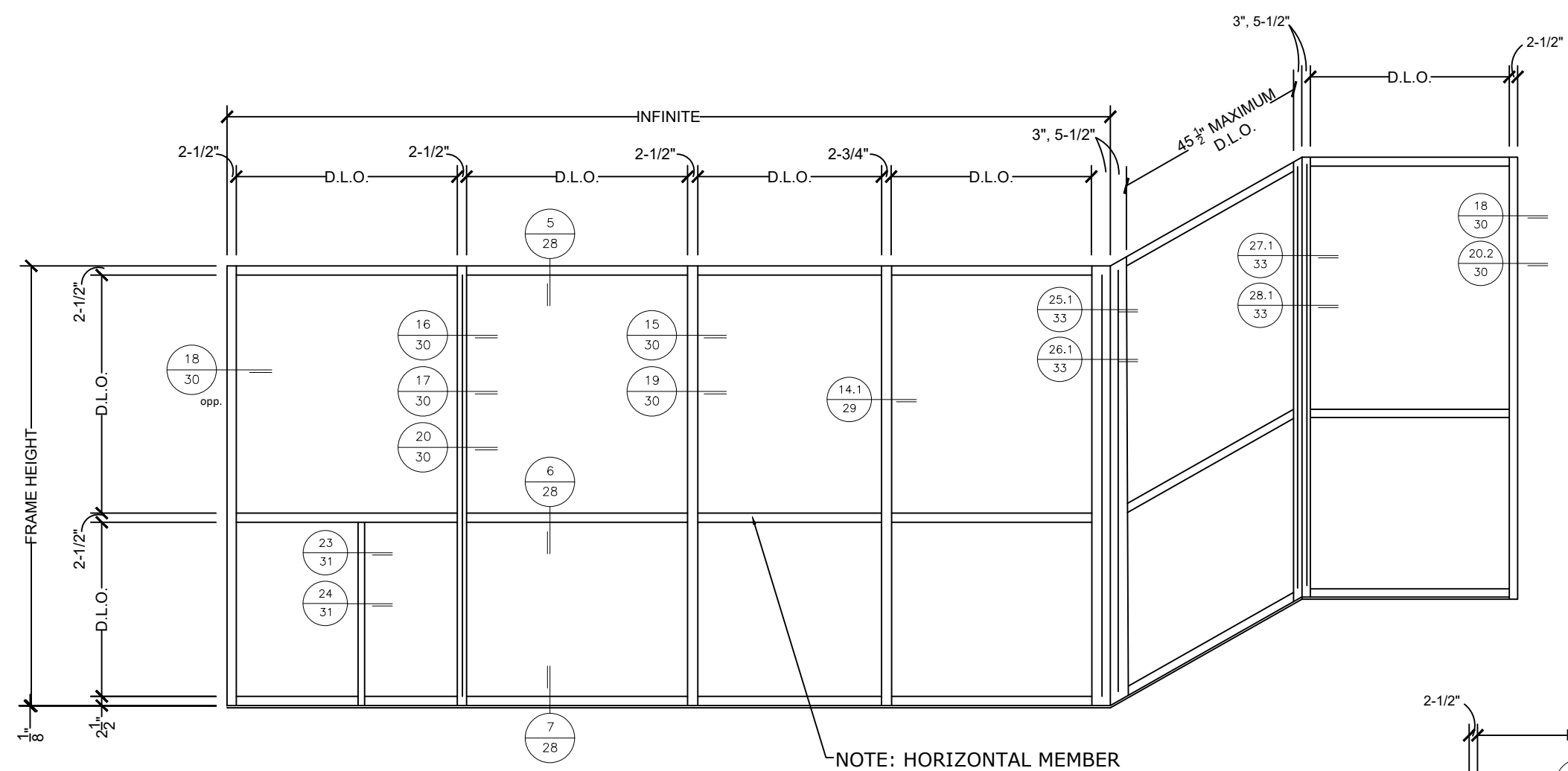
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NOTE: HORIZONTAL MEMBER IS LIMITED TO 96" IN LENGTH.

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

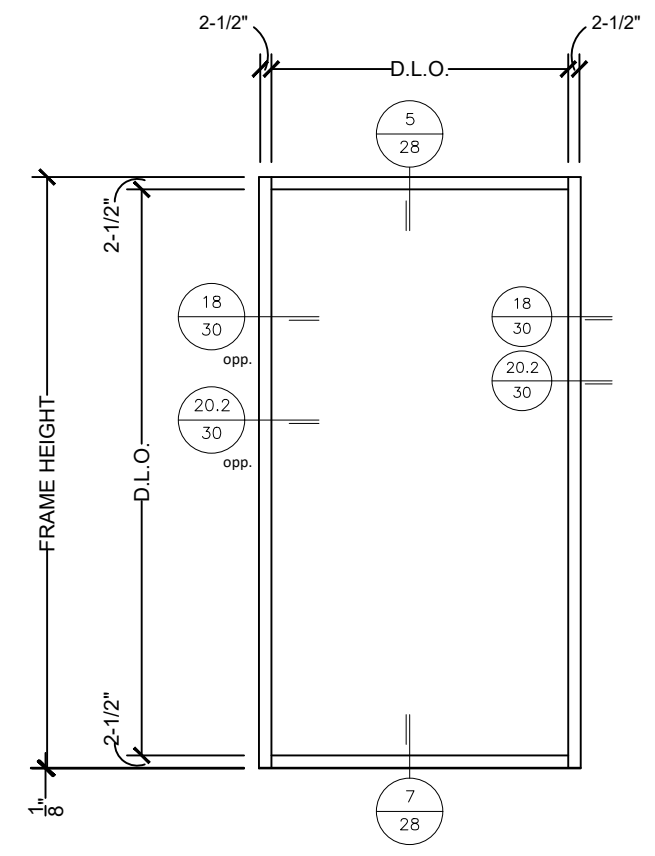
INSTRUCTIONS TO DETERMINE DESIGN PRESSURE RATING

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.



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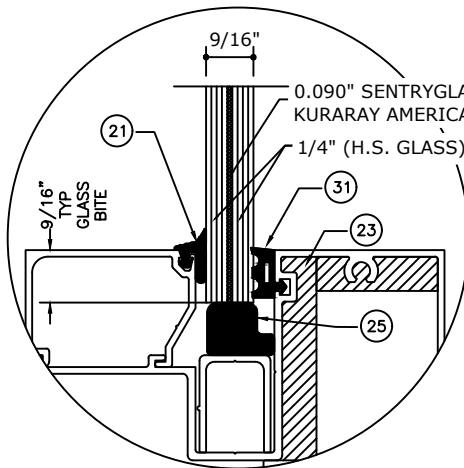
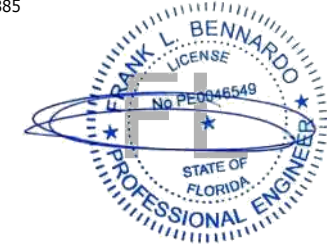
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GLASS TYPES (L.M.I.) - MISSILE LEVEL "D"

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AUGUST 31, 2022

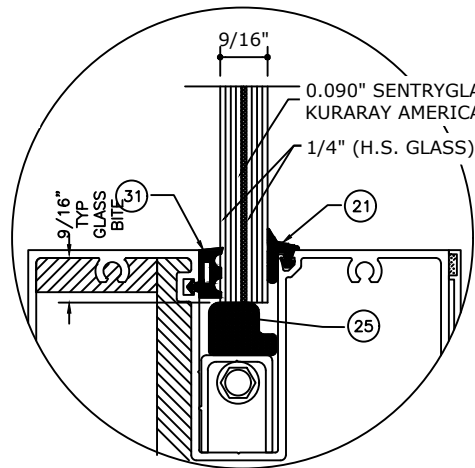


GLASS TYPE **G1**

GLAZING DETAIL (DRY GLAZED)

N.T.S.

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

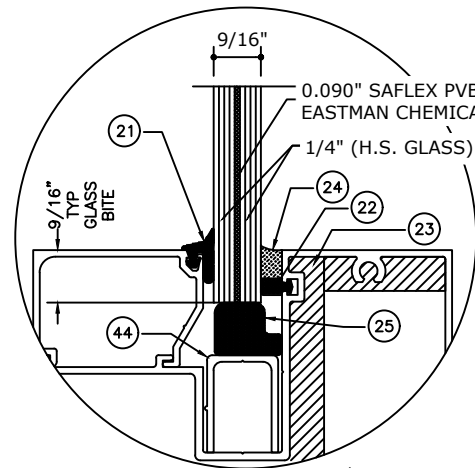


GLASS TYPE **G2**

GLAZING DETAIL (WET GLAZED)

N.T.S.

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

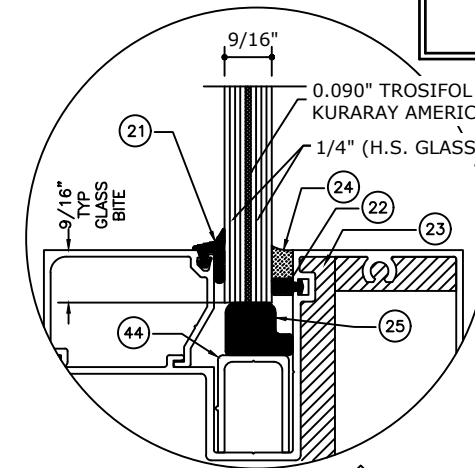


GLASS TYPE **G3**

GLAZING DETAIL (WET GLAZED)

N.T.S.

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

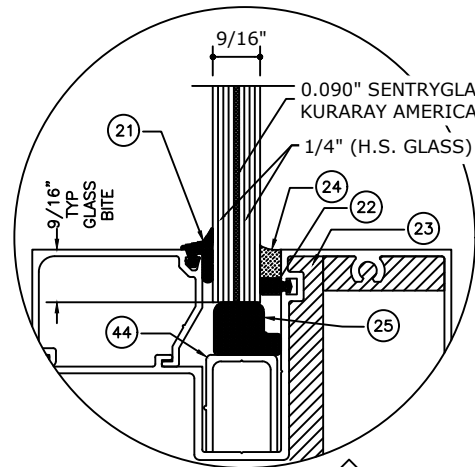


GLASS TYPE **G4**

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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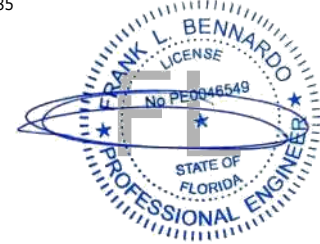
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NOTE: GLAZING TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS.

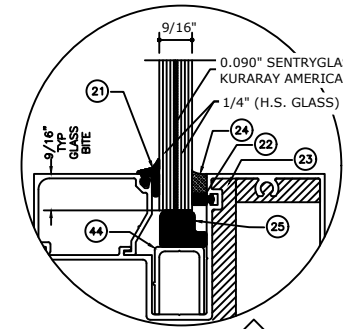
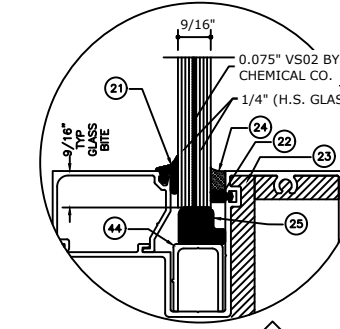
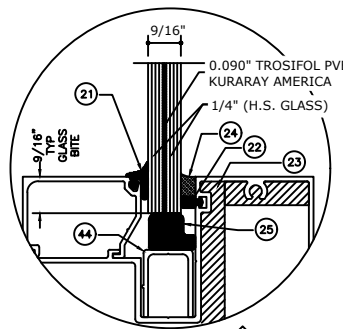
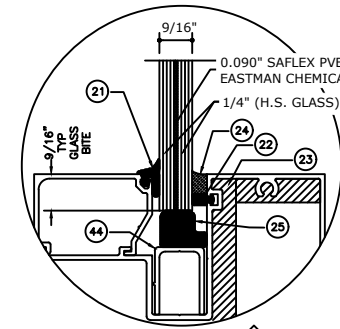
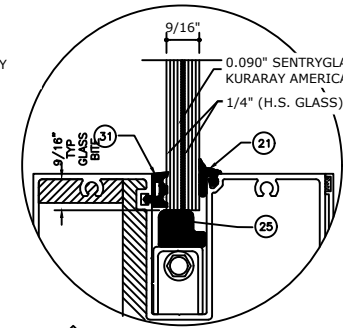
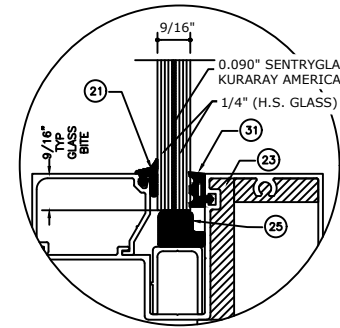
GLASS LOADING TABLES

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



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
	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	47	55	47	47	-	-	55	63	60	60	



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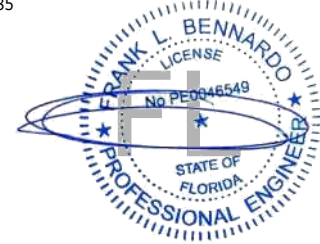
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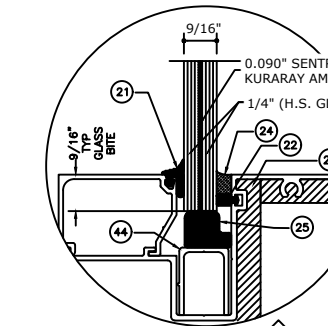
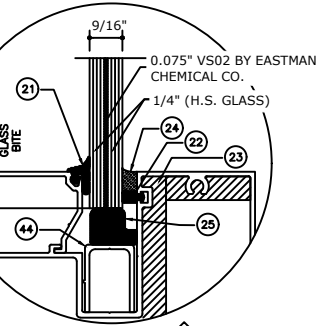
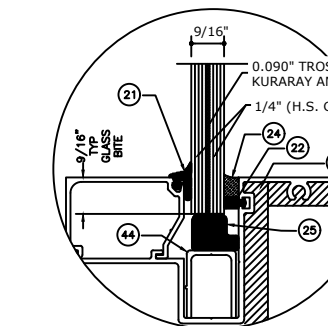
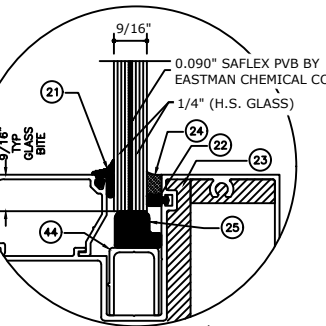
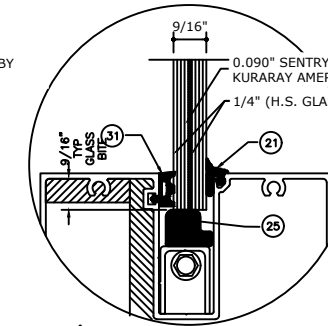
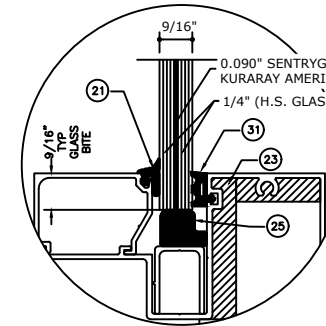
GLASS LOADING TABLES

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PE# 0046549 CA# 9885

AUGUST 31, 2022



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
	60	57	67	57	57	-	-	67	76	72	72
66	52	60	52	52	-	-	60	69	65	65	
84	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
	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
90	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
	56 1/4	60	70	60	60	-	-	70	80	76	76
	57 1/2	60	70	59	59	-	-	70	80	75	75
	60	57	67	57	57	-	-	67	76	72	72
96	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
	48	60	70	60	60	-	-	70	80	90	90
	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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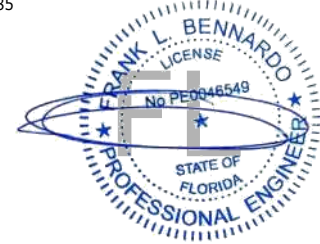
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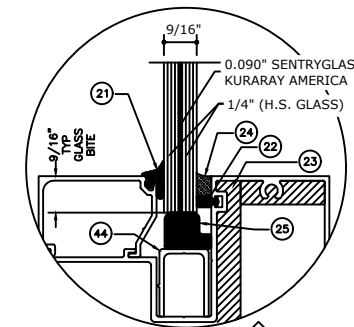
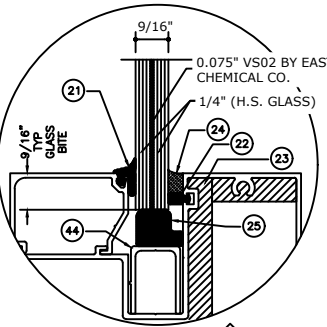
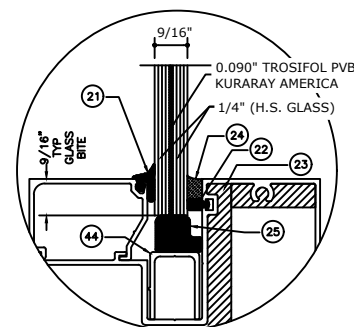
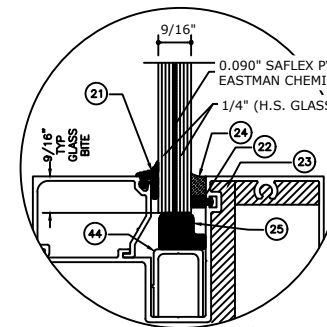
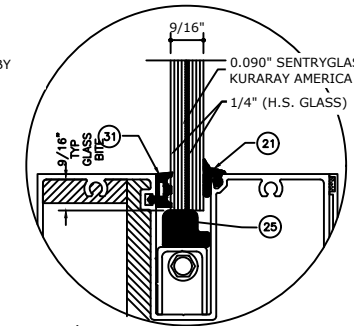
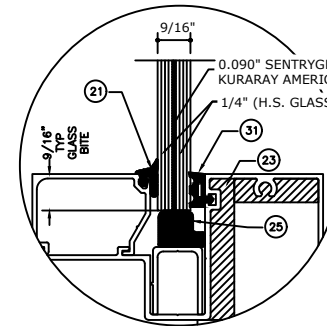
GLASS LOADING TABLES

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



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
	48	60	70	60	60	-	-	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
	48	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
	42	60	70	60	60	-	-	70	80	90	90
	48	60	70	60	60	-	-	70	80	90	90
120	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



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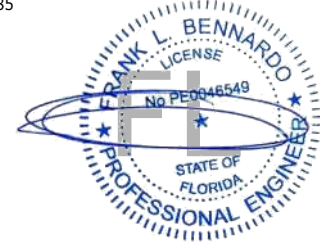
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GLASS LOADING TABLES

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

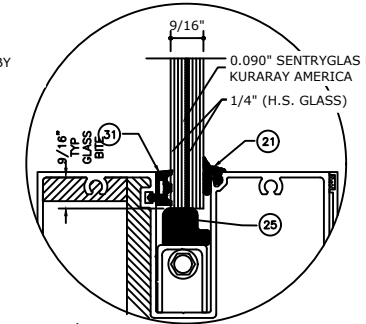
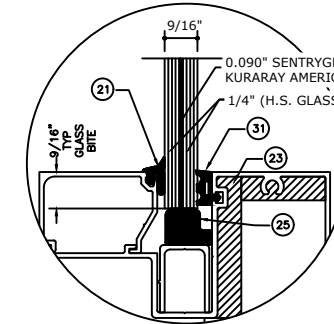
Frank Bennardo
PE# 0046549 CA# 9885

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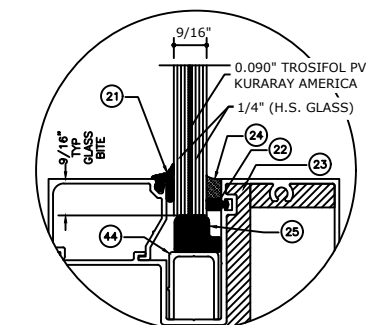
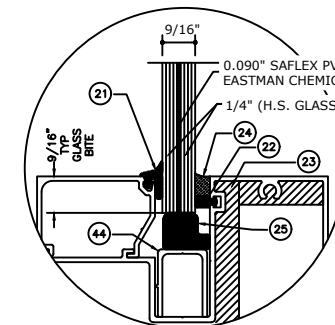


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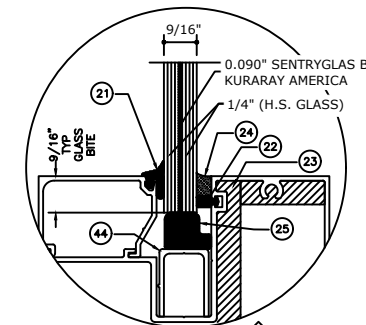
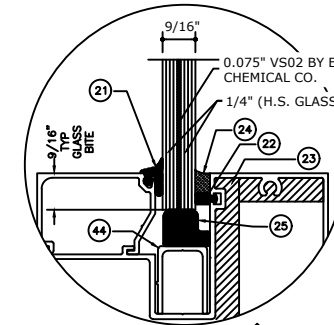


GLASS TYPE G1



GLASS TYPE G2

GLASS TYPE G3



GLASS TYPE G4

GLASS TYPE G5

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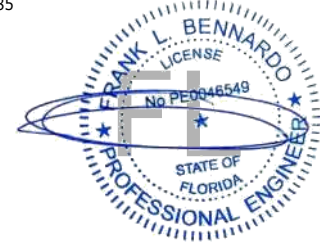
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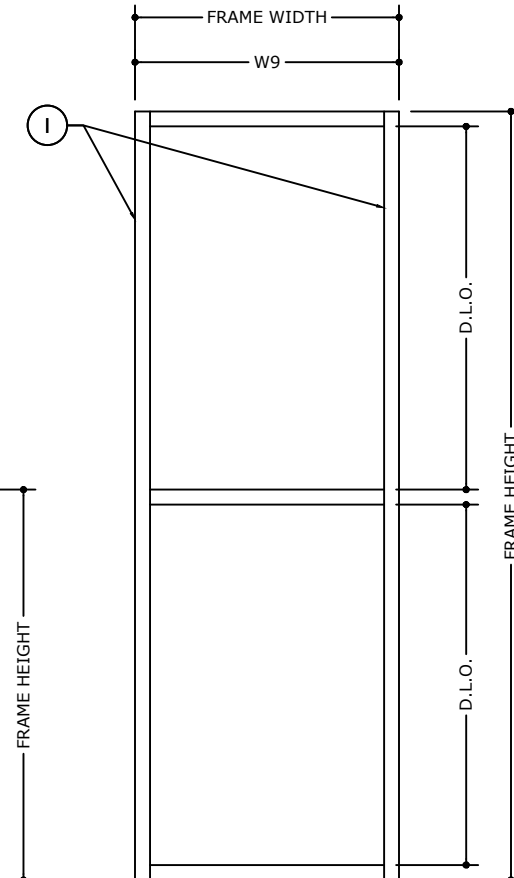
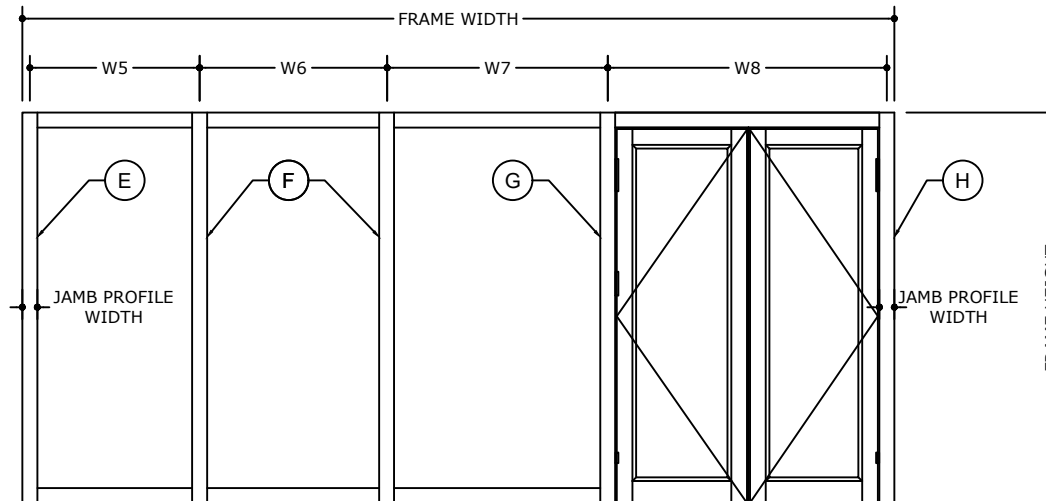
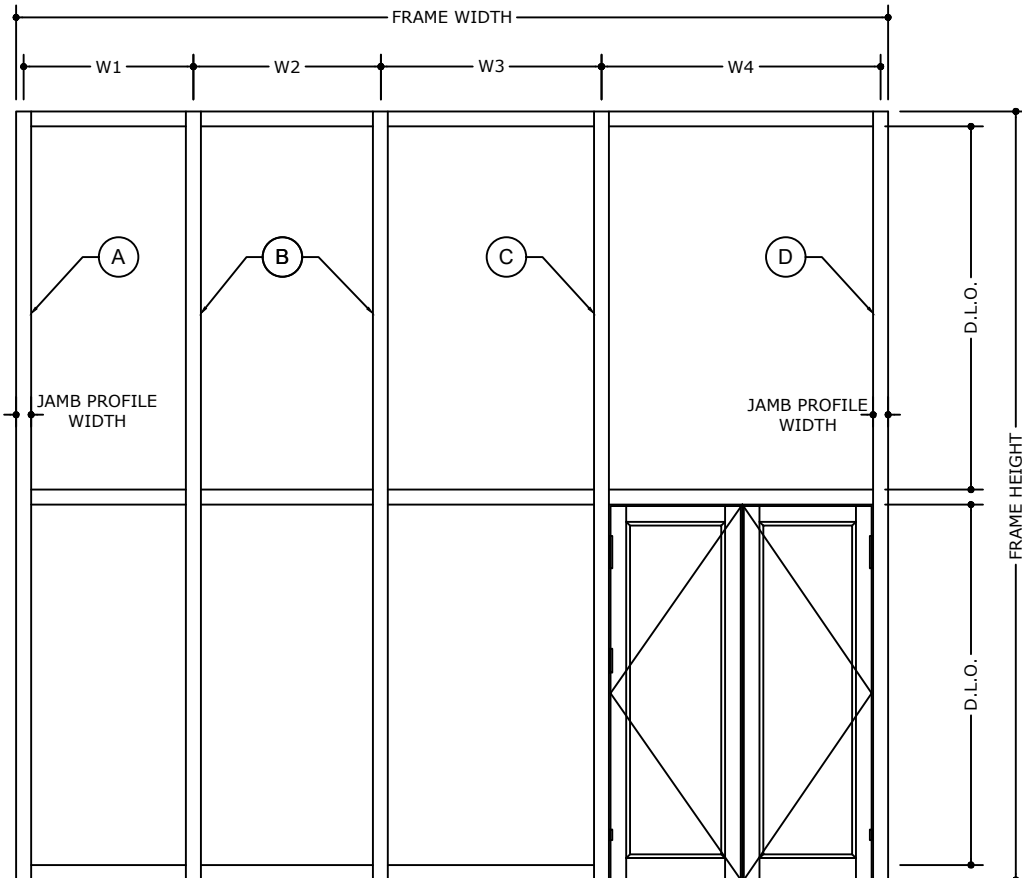
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MULLION & JAMB LOAD DETERMINATION



LOAD DETERMINATION

TRIBUTARY WIDTH A = $\frac{W1}{2} + \frac{\text{JAMB PROFILE WIDTH}}{2}$
(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 = $\frac{W4}{2} + \frac{\text{JAMB PROFILE WIDTH}}{2}$
(FOR DOOR JAMB MULLION)

LOAD DETERMINATION

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

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

TRIBUTARY WIDTH G = $\frac{W7}{2} + \frac{W8}{4}$
(FOR INTERMEDIATE DOOR MULLION)

TRIBUTARY WIDTH H = $\frac{W8}{4} + \frac{\text{JAMB PROFILE WIDTH}}{2}$
(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.)

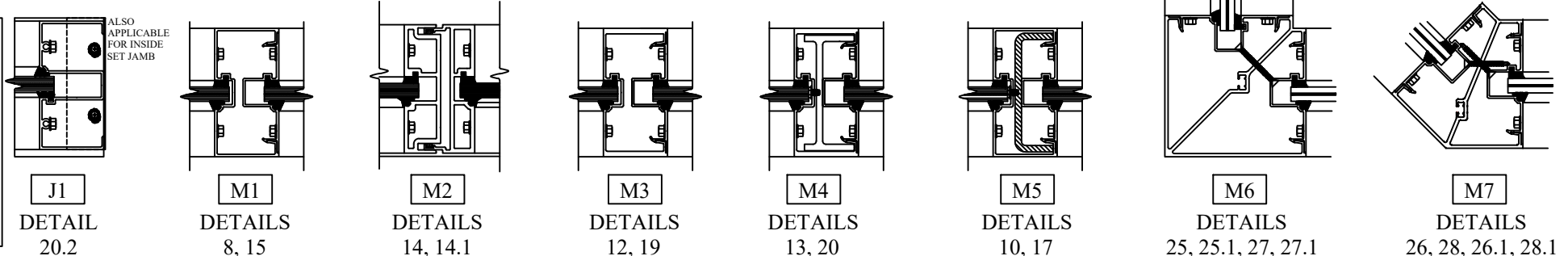
SINGLE SPAN MULLION LOADING CHART		MULLION TYPE M1		MULLION TYPE M2		MULLION TYPE M3		MULLION TYPE M4		MULLION TYPE M5		MULLION TYPE M6		MULLION TYPE M7	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) 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	-	-	-	-	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
	54	90	90
	60	90	90
	66	90	90
	72	90	90
50	24	90	90
	30	90	90
	36	90	90
	42	90	90
	44.75	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	90	90
72	24	90	90
	30	87	87
	36	77	77
78	24	90	90
	30	79	79

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



Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022

FL#20665.1

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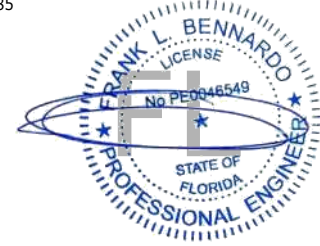
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MULLION LOADING TABLES (P.S.F.)

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
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	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	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	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	-	-	-	-	-	-	60	60	79	90	70	80	-	-
78	-	-	-	-	-	-	-	-	70	80	-	80	-	-	

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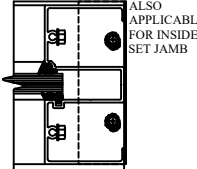
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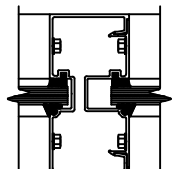
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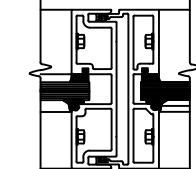
- APPLICABLE FOR UN-ANCHORED JAMB CONDITION ONLY
- JAMB TRIBUTARY SHALL BE DETERMINED PER SHEET 09 FOR SINGLE UNIT OR MULTI-UNITS STOREFRONT



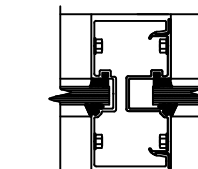
J1
DETAIL
20.2



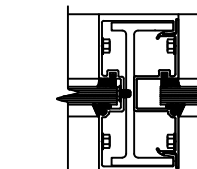
M1
DETAILS
8, 15



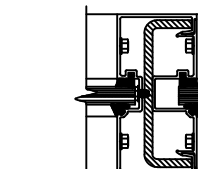
M2
DETAILS
14, 14.1



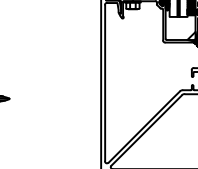
M3
DETAILS
12, 19



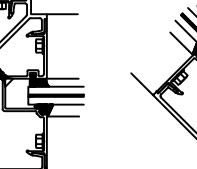
M4
DETAILS
13, 20



M5
DETAILS
10, 17



M6
DETAILS
25, 25.1, 27, 27.1



M7
DETAILS
26, 28, 26.1, 28.1

NOTE: FRAME WIDTHS = FRAME TRIBUTARY WIDTH

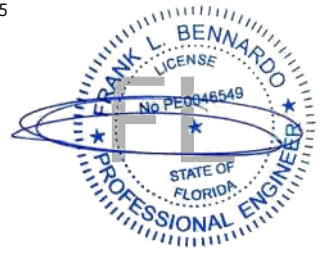
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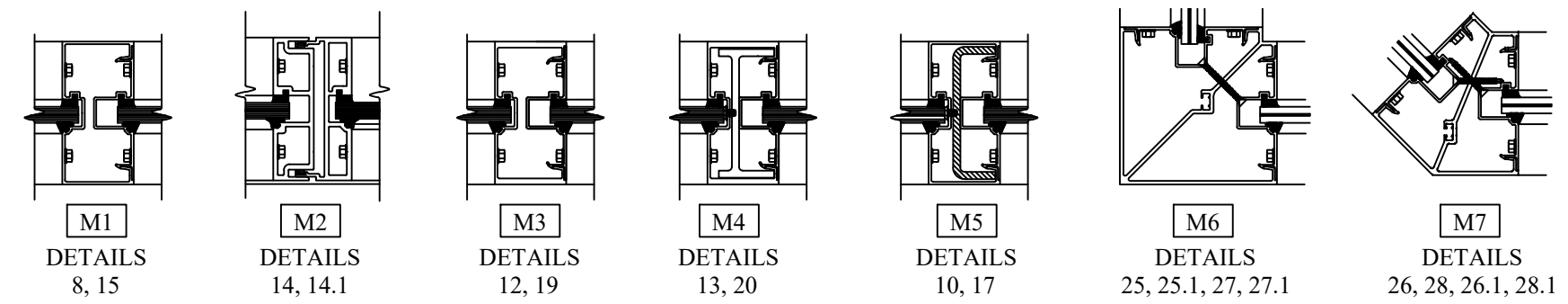


MULLION LOADING TABLES (P.S.F.)

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
102	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	-	-	70	70	60	60	60	60	86	90	70	80	70	70
	54	-	-	-	-	60	60	60	60	80	90	70	80	70	70
	60	-	-	-	-	-	-	60	60	77	90	70	80	70	70
	66	-	-	-	-	-	-	60	60	75	90	70	80	70	70
72	-	-	-	-	-	-	-	-	-	-	70	80	-	-	
108	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	88	90	70	80	70	70
	44.75	65	65	70	70	60	60	60	60	84	90	70	80	70	70
	48	-	-	70	70	60	60	60	60	80	90	70	80	70	70
	54	-	-	70	70	-	-	60	60	77	90	70	80	70	70
	60	-	-	70	70	-	-	60	60	72	90	70	80	70	70
	66	-	-	-	-	-	-	-	-	69	87	70	80	-	-
72	-	-	-	-	-	-	-	-	-	-	70	80	-	-	
109	24	-	-	70	70	60	60	60	60	90	90	70	80	70	70
	30	-	-	70	70	60	60	60	60	90	90	70	80	70	70
	36	-	-	70	70	60	60	60	60	90	90	70	80	70	70
	42	-	-	70	70	60	60	60	60	88	90	70	80	70	70
	44.75	-	-	70	70	60	60	60	60	84	90	70	80	70	70
	48	-	-	70	70	60	60	60	60	80	90	70	80	70	70
	54	-	-	70	70	-	-	60	60	77	90	70	80	70	70
	60	-	-	70	70	-	-	60	60	72	90	70	80	70	70
	66	-	-	-	-	-	-	-	-	69	87	70	80	-	-
72	-	-	-	-	-	-	-	-	-	-	70	80	-	-	
114	24	-	-	-	-	60	60	60	60	90	90	70	80	-	-
	30	-	-	-	-	60	60	60	60	90	90	70	80	-	-
	36	-	-	-	-	60	60	60	60	90	90	70	80	-	-
	42	-	-	-	-	60	60	60	60	85	90	70	80	-	-
	44.75	-	-	-	-	60	60	60	60	80	90	70	80	-	-
	48	-	-	-	-	60	60	60	60	77	90	70	80	-	-
	54	-	-	-	-	-	-	60	60	73	90	70	80	-	-
	60	-	-	-	-	-	-	60	60	70	85	70	80	-	-
66	-	-	-	-	-	-	-	-	-	-	70	80	-	-	

NOTE: FRAME WIDTHS = FRAME TRIBUTARY WIDTH

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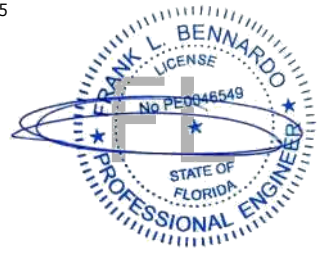
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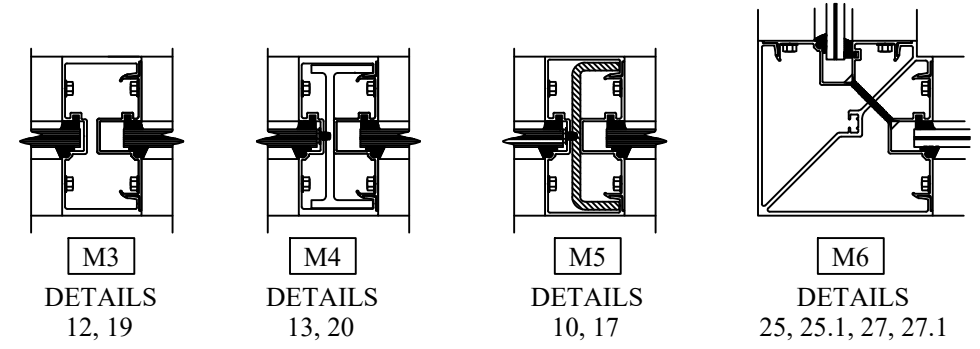


MULLION LOADING TABLES (P.S.F.)

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE M3		MULLION TYPE M4		MULLION TYPE M5		MULLION TYPE M6	
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

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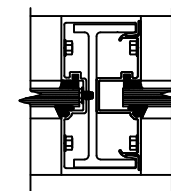
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MULLION LOADING TABLES (P.S.F.)

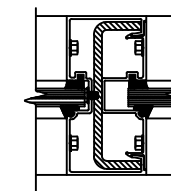
SINGLE SPAN MULLION LOADING CHART		MULLION TYPE M4		MULLION TYPE M5		MULLION TYPE M6	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F	(+) P.S.F	(-) P.S.F
138	24	60	60	90	90	70	80
	30	60	60	81	90	70	80
	36	60	60	68	85	70	80
	42	60	60	59	74	70	80
	44.75	60	60	55	70	70	80
	48	57	57	52	65	68	77
144	54	-	-	-	-	61	70
	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	64

NOTE: FRAME WIDTHS = FRAME TRIBUTARY WIDTH

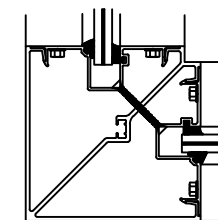
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M4
DETAILS
13, 20

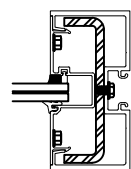


M5
DETAILS
10, 17



M6
DETAILS
25, 25.1, 27, 27.1

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE M8	
FRAME HEIGHT (in)	FRAME WIDTH (in)	(+) P.S.F	(-) P.S.F
120.375	73.25	70	80
146.00	66.00	70	70



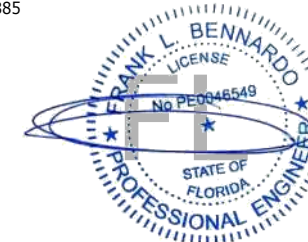
M8
DETAILS
29 & 30

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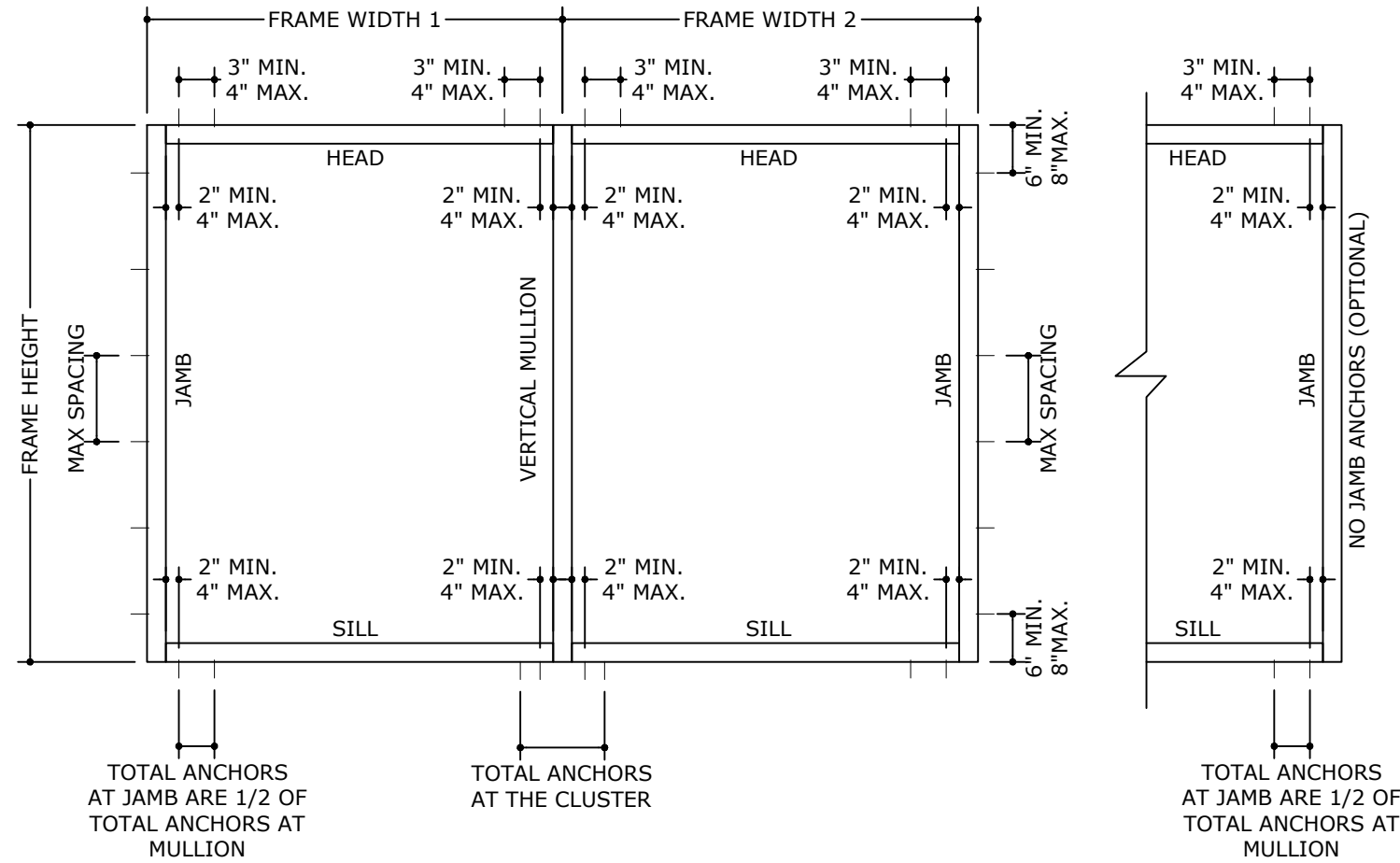
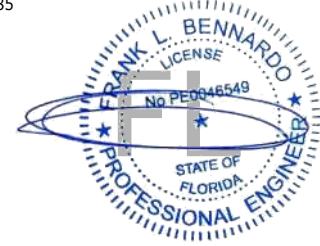
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FASTENER SCHEDULE

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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			
				1/8" ALUMINUM-6063-T6			
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.
D	1/4"	ULTRACON+ ANCHOR	DEWALT	GROUT FILLED MASONRY WALLS 1500 PSI MIN	1-1/2	1-1/2	4" MIN.

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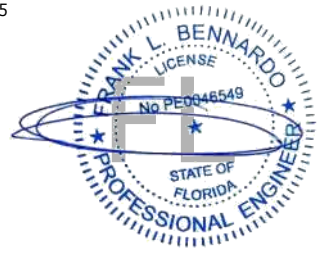
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE A

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



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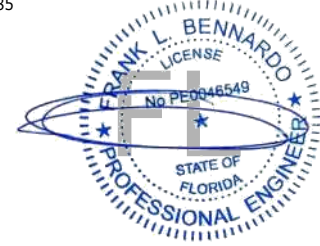
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE A

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



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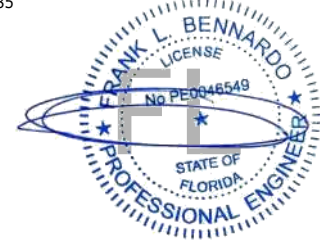
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE A

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



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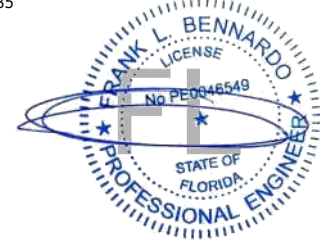
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE B

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



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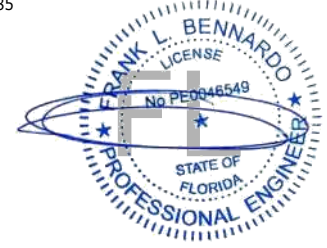
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE B

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



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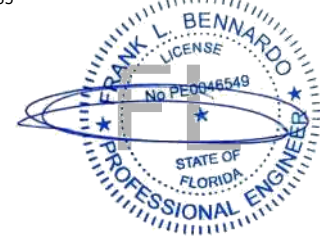
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE B

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



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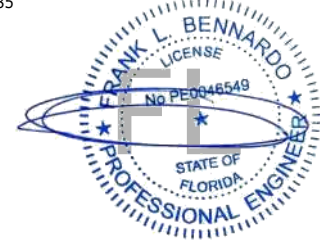
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE C

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



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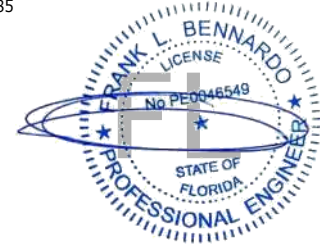
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE C

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



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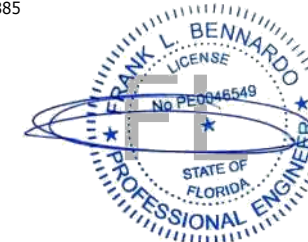
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE C

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



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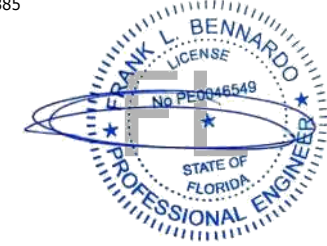
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE D

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



FL#20665.1

FRAME HEIGHT (IN)	TRIBUTARY WIDTH (IN)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE D													
		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)
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.	90	18" O.C.
	36	68	18" O.C.	90	18" O.C.	90	18" O.C.	90	18" O.C.	90	18" O.C.	90	18" O.C.	90	18" O.C.
	48	51	18" O.C.	90	18" O.C.	90	18" O.C.	90	18" O.C.	90	18" O.C.	90	18" O.C.	90	18" O.C.
	60	41	18" O.C.	82	18" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.
	72	34	18" O.C.	68	18" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.
	78	31	18" O.C.	63	18" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.
48	24	77	24" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.
	36	51	24" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.
	48	38	24" O.C.	77	24" O.C.	90	16" O.C.	90	16" O.C.	90	16" O.C.	90	16" O.C.	90	16" O.C.
	60	31	24" O.C.	62	24" O.C.	90	16" O.C.	90	16" O.C.	90	16" O.C.	90	16" O.C.	90	16" O.C.
	72	25	24" O.C.	51	24" O.C.	77	16" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.
	78	23	24" O.C.	47	24" O.C.	71	16" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.
60	24	62	30" O.C.	90	30" O.C.	90	30" O.C.	90	30" O.C.	90	30" O.C.	90	30" O.C.	90	30" O.C.
	36	41	30" O.C.	82	30" O.C.	90	20" O.C.	90	20" O.C.	90	20" O.C.	90	20" O.C.	90	20" O.C.
	48	31	30" O.C.	62	30" O.C.	90	20" O.C.	90	20" O.C.	90	20" O.C.	90	20" O.C.	90	20" O.C.
	60	24	30" O.C.	49	30" O.C.	74	20" O.C.	90	15" O.C.	90	15" O.C.	90	15" O.C.	90	15" O.C.
	72	20	30" O.C.	41	30" O.C.	62	20" O.C.	82	15" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.
	78	19	30" O.C.	38	30" O.C.	57	20" O.C.	76	15" O.C.	90	12" O.C.	90	12" O.C.	90	12" O.C.
72	24	51	36" O.C.	90	36" O.C.	90	36" O.C.	90	36" O.C.	90	36" O.C.	90	36" O.C.	90	36" O.C.
	36	34	36" O.C.	68	36" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.
	48	25	36" O.C.	51	36" O.C.	77	24" O.C.	90	18" O.C.	90	18" O.C.	90	18" O.C.	90	18" O.C.
	60	20	36" O.C.	41	36" O.C.	62	24" O.C.	82	18" O.C.	90	14" O.C.	90	14" O.C.	90	14" O.C.
	72	17	36" O.C.	34	36" O.C.	51	24" O.C.	68	18" O.C.	86	14" O.C.	90	12" O.C.	90	12" O.C.
	78	15	36" O.C.	31	36" O.C.	47	24" O.C.	63	18" O.C.	79	14" O.C.	90	12" O.C.	90	12" O.C.

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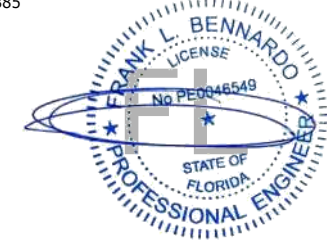
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE D

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



FL#20665.1

FRAME HEIGHT (IN)	TRIBUTARY WIDTH (IN)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE D													
		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	44	42" O.C.	88	42" O.C.	90	28" O.C.	90	28" O.C.	90	28" O.C.	90	28" O.C.	90	28" O.C.
	36	29	42" O.C.	59	42" O.C.	88	28" O.C.	90	21" O.C.	90	21" O.C.	90	21" O.C.	90	21" O.C.
	48	22	42" O.C.	44	42" O.C.	66	28" O.C.	88	21" O.C.	90	17" O.C.	90	17" O.C.	90	17" O.C.
	60	17	42" O.C.	35	42" O.C.	53	28" O.C.	70	21" O.C.	88	17" O.C.	90	14" O.C.	90	14" O.C.
	72	14	42" O.C.	29	42" O.C.	44	28" O.C.	59	21" O.C.	73	17" O.C.	88	14" O.C.	90	12" O.C.
	78	13	42" O.C.	27	42" O.C.	40	28" O.C.	54	21" O.C.	68	17" O.C.	81	14" O.C.	90	12" O.C.
96	24	38	48" O.C.	77	48" O.C.	90	32" O.C.	90	32" O.C.	90	32" O.C.	90	32" O.C.	90	32" O.C.
	36	25	48" O.C.	51	48" O.C.	77	32" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.
	48	19	48" O.C.	38	48" O.C.	58	32" O.C.	77	24" O.C.	90	19" O.C.	90	19" O.C.	90	19" O.C.
	60	15	48" O.C.	31	48" O.C.	46	32" O.C.	62	24" O.C.	77	19" O.C.	90	16" O.C.	90	16" O.C.
	72	12	48" O.C.	25	48" O.C.	38	32" O.C.	51	24" O.C.	64	19" O.C.	77	16" O.C.	90	14" O.C.
	78	11	48" O.C.	23	48" O.C.	35	32" O.C.	47	24" O.C.	59	19" O.C.	71	16" O.C.	90	12" O.C.
108	24	34	54" O.C.	68	54" O.C.	90	36" O.C.	90	36" O.C.	90	36" O.C.	90	36" O.C.	90	36" O.C.
	36	22	54" O.C.	45	54" O.C.	68	36" O.C.	90	27" O.C.	90	27" O.C.	90	27" O.C.	90	27" O.C.
	48	17	54" O.C.	34	54" O.C.	51	36" O.C.	68	27" O.C.	86	22" O.C.	90	18" O.C.	90	18" O.C.
	60	13	54" O.C.	27	54" O.C.	41	36" O.C.	55	27" O.C.	68	22" O.C.	82	18" O.C.	90	15" O.C.
	72	11	54" O.C.	22	54" O.C.	34	36" O.C.	45	27" O.C.	57	22" O.C.	68	18" O.C.	90	14" O.C.
	78	10	54" O.C.	21	54" O.C.	31	36" O.C.	42	27" O.C.	52	22" O.C.	63	18" O.C.	84	14" O.C.
120	24	31	60" O.C.	62	60" O.C.	90	40" O.C.	90	40" O.C.	90	40" O.C.	90	40" O.C.	90	40" O.C.
	36	20	60" O.C.	41	60" O.C.	62	40" O.C.	82	30" O.C.	90	24" O.C.	90	24" O.C.	90	24" O.C.
	48	15	60" O.C.	31	60" O.C.	46	40" O.C.	62	30" O.C.	77	24" O.C.	90	20" O.C.	90	20" O.C.
	60	12	60" O.C.	24	60" O.C.	37	40" O.C.	49	30" O.C.	62	24" O.C.	74	20" O.C.	90	15" O.C.
	72	10	60" O.C.	20	60" O.C.	31	40" O.C.	41	30" O.C.	51	24" O.C.	62	20" O.C.	82	15" O.C.
	78	9	60" O.C.	19	60" O.C.	28	40" O.C.	38	30" O.C.	47	24" O.C.	57	20" O.C.	76	15" O.C.

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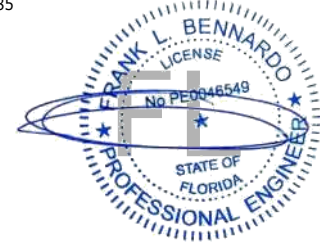
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MAXIMUM ALLOWABLE STRESS DESIGN PRESSURE RATING FOR STANDARD MULLIONS WITH HEAD, SILL AND JAMB CONNECTIONS-ANCHOR TYPE D

Frank Bennardo
PE# 0046549 CA# 9885

AUGUST 31, 2022



FL#20665.1

FRAME HEIGHT (IN)	TRIBUTARY WIDTH (IN)	TOTAL NUMBER OF ANCHORS AT THE CLUSTER-ANCHOR TYPE D													
		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	28	66" O.C.	56	66" O.C.	84	44" O.C.	90	33" O.C.	90	33" O.C.	90	33" O.C.	90	33" O.C.
	36	18	66" O.C.	37	66" O.C.	56	44" O.C.	75	33" O.C.	90	26" O.C.	90	26" O.C.	90	26" O.C.
	48	14	66" O.C.	28	66" O.C.	42	44" O.C.	56	33" O.C.	70	26" O.C.	84	22" O.C.	90	19" O.C.
	60	11	66" O.C.	22	66" O.C.	33	44" O.C.	45	33" O.C.	56	26" O.C.	67	22" O.C.	90	17" O.C.
	72	9	66" O.C.	18	66" O.C.	28	44" O.C.	37	33" O.C.	46	26" O.C.	56	22" O.C.	75	17" O.C.
	78	8	66" O.C.	17	66" O.C.	26	44" O.C.	34	33" O.C.	43	26" O.C.	52	22" O.C.	69	17" O.C.
144	24	25	72" O.C.	51	72" O.C.	77	48" O.C.	90	36" O.C.	90	36" O.C.	90	36" O.C.	90	36" O.C.
	36	17	72" O.C.	34	72" O.C.	51	48" O.C.	68	36" O.C.	86	29" O.C.	90	24" O.C.	90	24" O.C.
	48	12	72" O.C.	25	72" O.C.	38	48" O.C.	51	36" O.C.	64	29" O.C.	77	24" O.C.	90	21" O.C.
	60	10	72" O.C.	20	72" O.C.	31	48" O.C.	41	36" O.C.	51	29" O.C.	62	24" O.C.	82	18" O.C.
	72	8	72" O.C.	17	72" O.C.	25	48" O.C.	34	36" O.C.	43	29" O.C.	51	24" O.C.	68	18" O.C.
	78	7	72" O.C.	15	72" O.C.	23	48" O.C.	31	36" O.C.	39	29" O.C.	47	24" O.C.	63	18" O.C.

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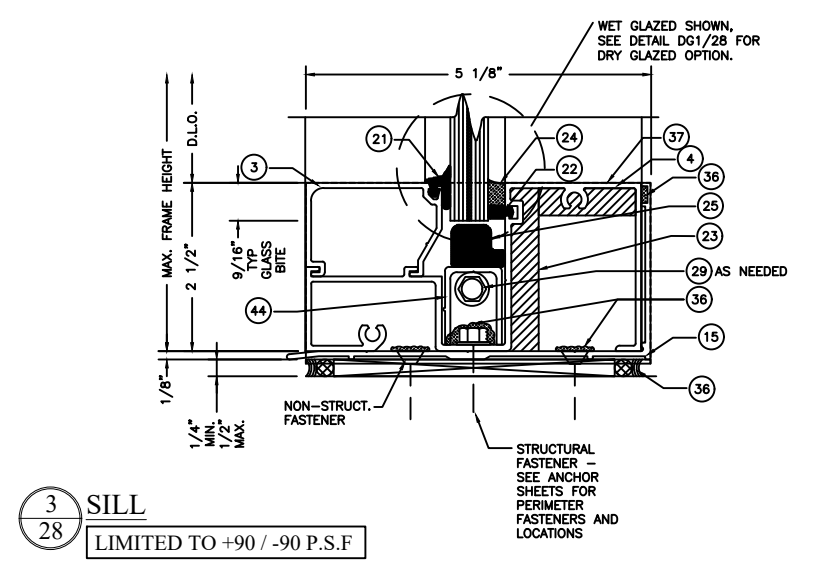
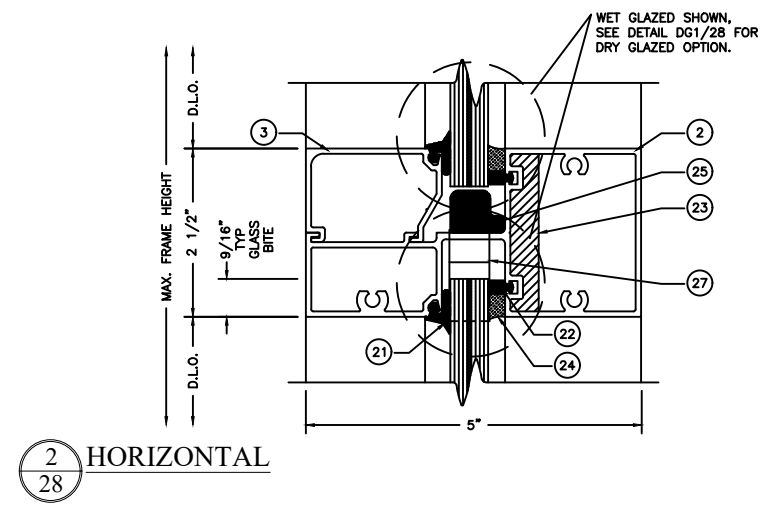
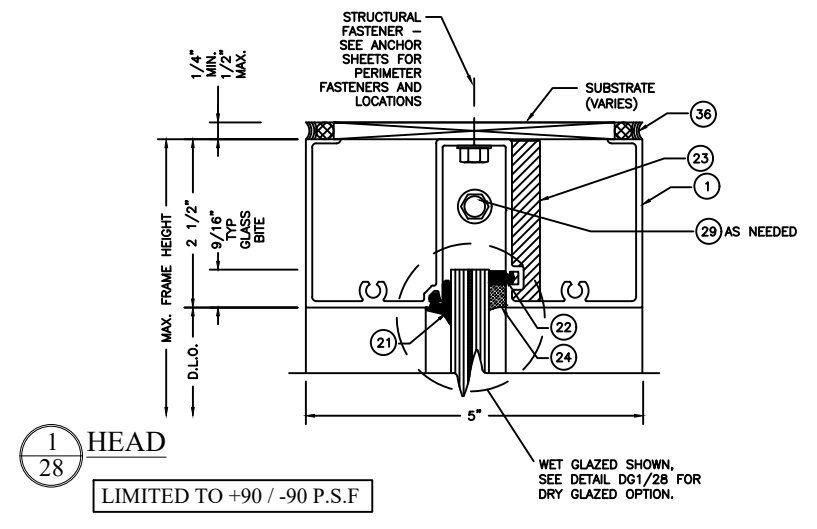
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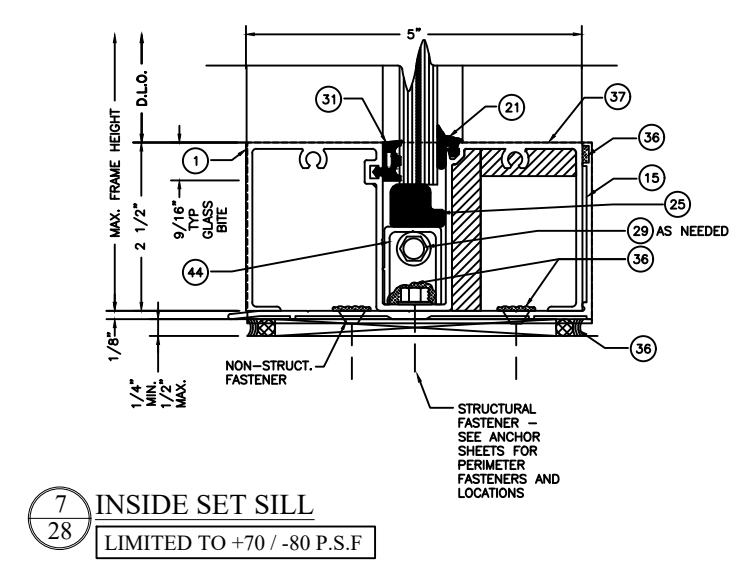
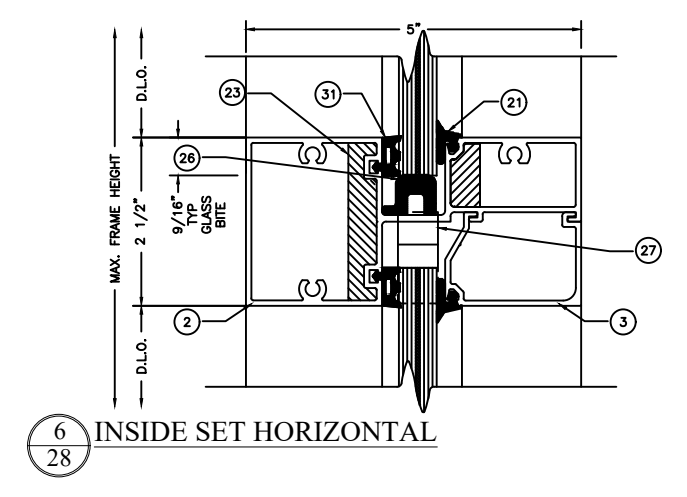
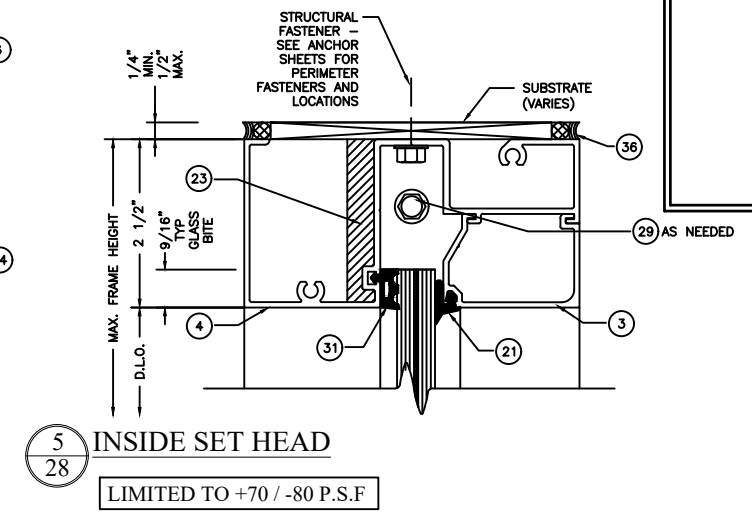
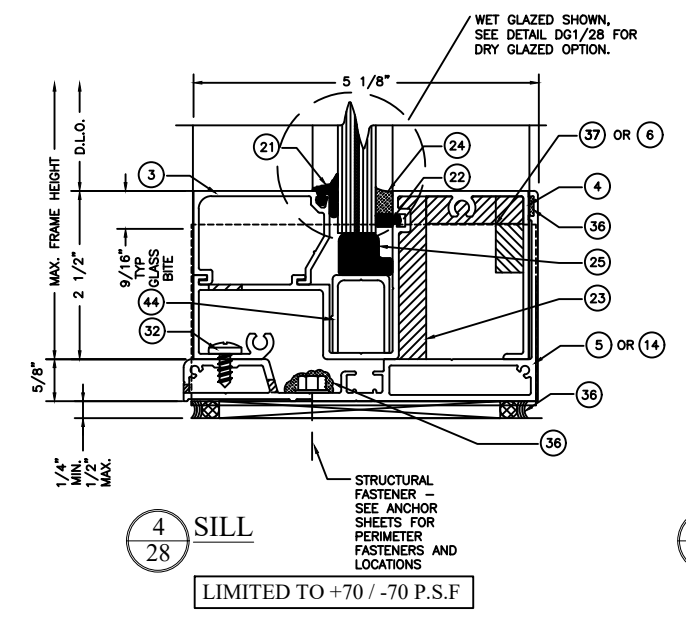
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Frank Bennardo
PE# 0046549 CA# 9885

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LOCATE REINFORCEMENT FASTENERS
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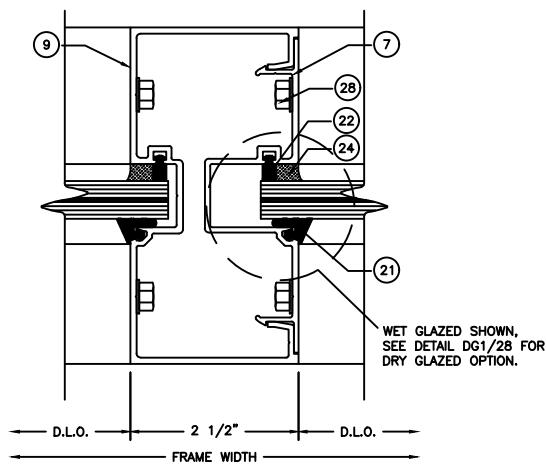
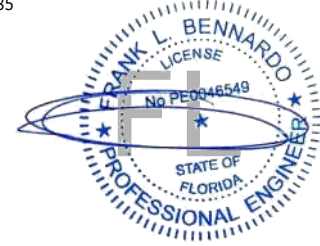
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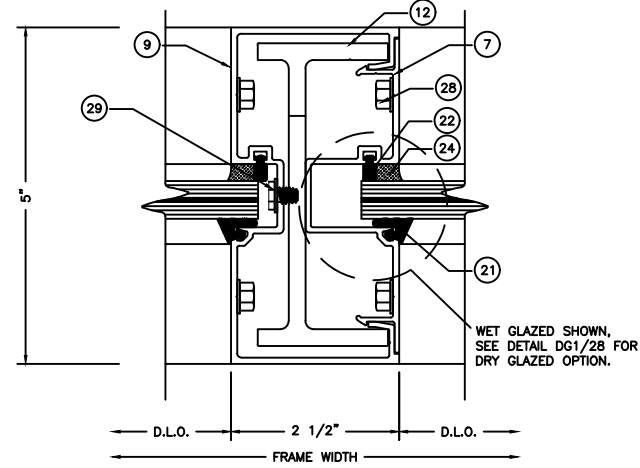
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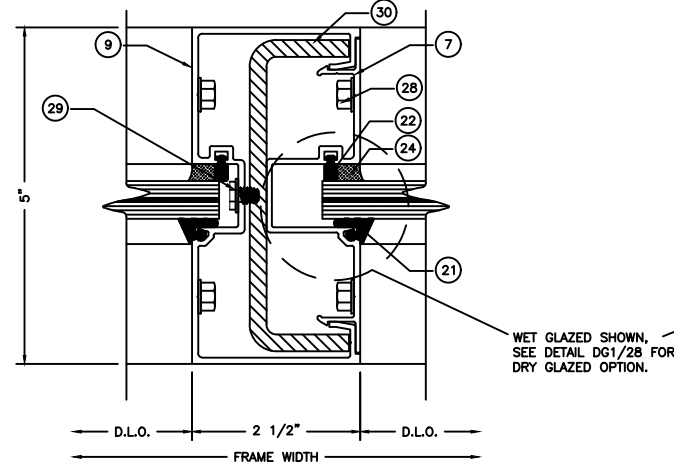


8 STANDARD VERTICAL
29 M1

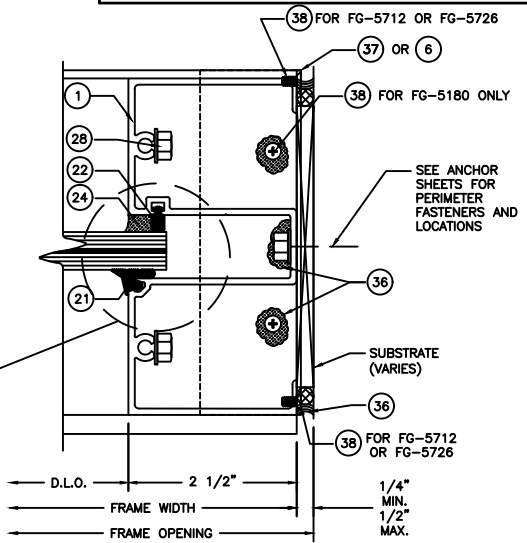


9 VERTICAL WITH
29 ALUMINUM REINFORCEMENT

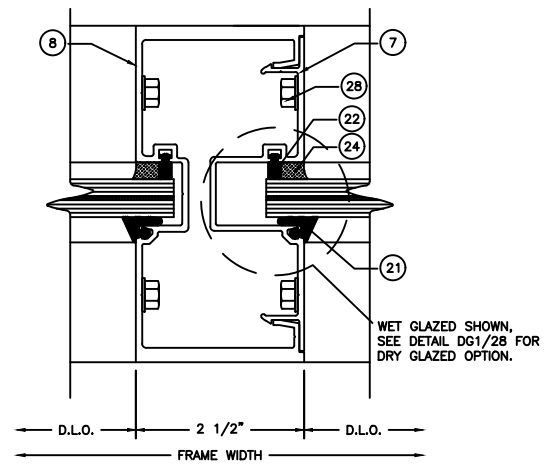
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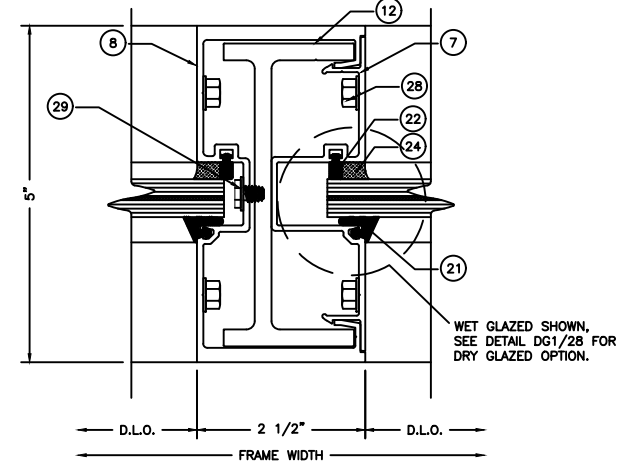
10 VERTICAL WITH
29 STEEL REINFORCEMENT
M5



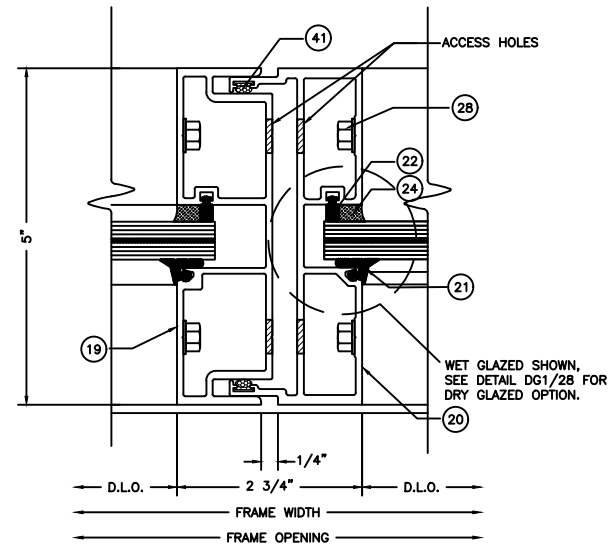
11 JAMB VERTICAL
29



12 HEAVY VERTICAL
29 M3

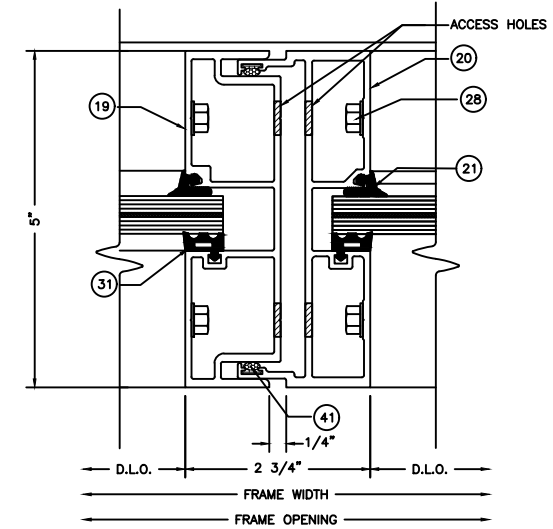


13 HEAVY VERTICAL WITH
29 ALUMINUM REINFORCEMENT
M4



14 EXPANSION MULLION
29 M2

NOTE: APPROVED FOR USE
OUTSIDE HVHZ



14.1 INSIDE SET EXPANSION MULLION
29 M2

NOTE: APPROVED FOR USE
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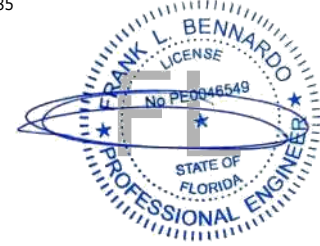
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LOCATE REINFORCEMENT FASTENERS
1-1/4" FROM EACH END.

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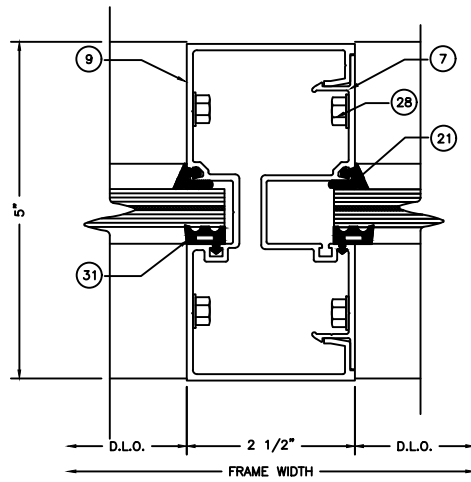
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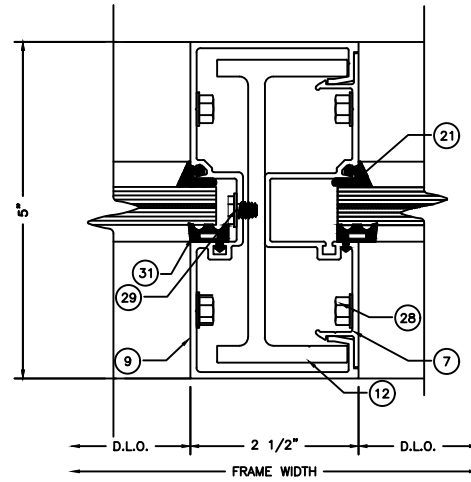
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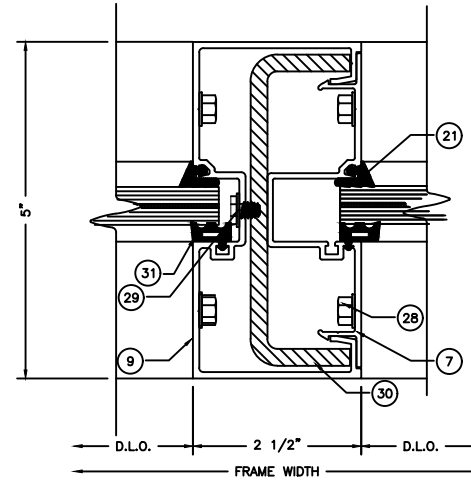


15/30 INSIDE SET STANDARD VERTICAL
M1

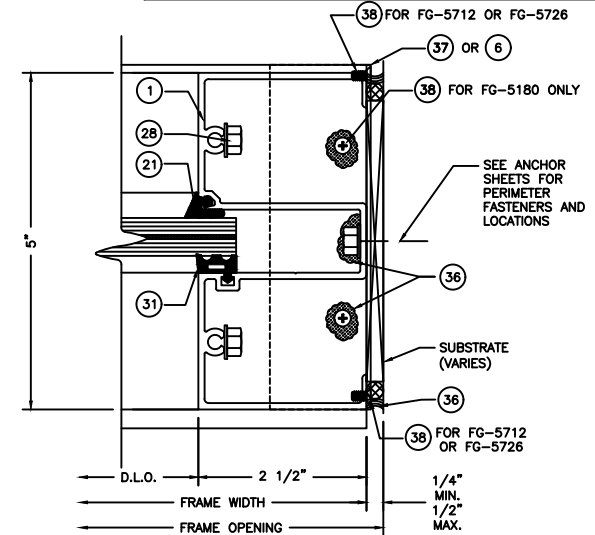


16/30 INSIDE SET VERTICAL WITH
ALUMINUM REINFORCEMENT

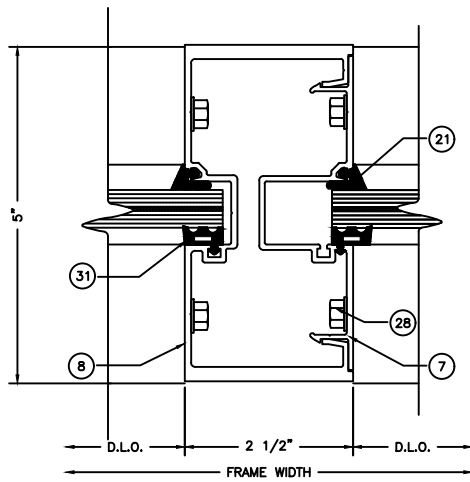
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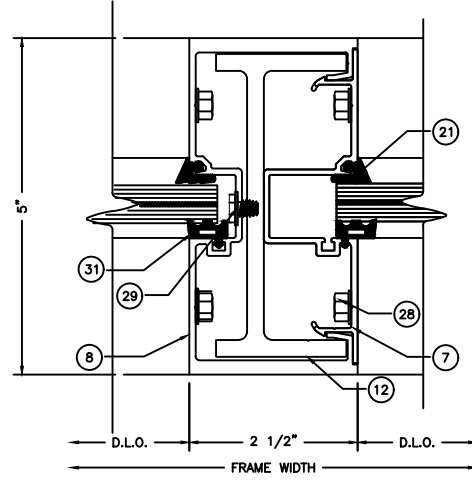
17/30 INSIDE SET VERTICAL WITH
STEEL REINFORCEMENT
M5



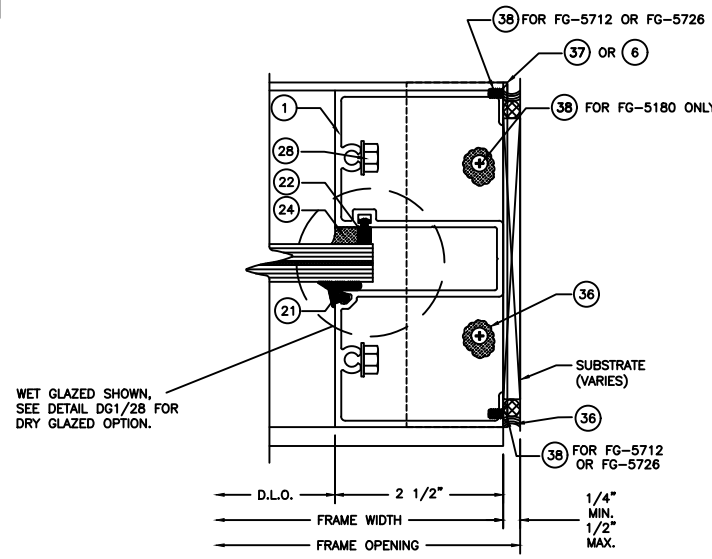
18/30 INSIDE SET JAMB VERTICAL



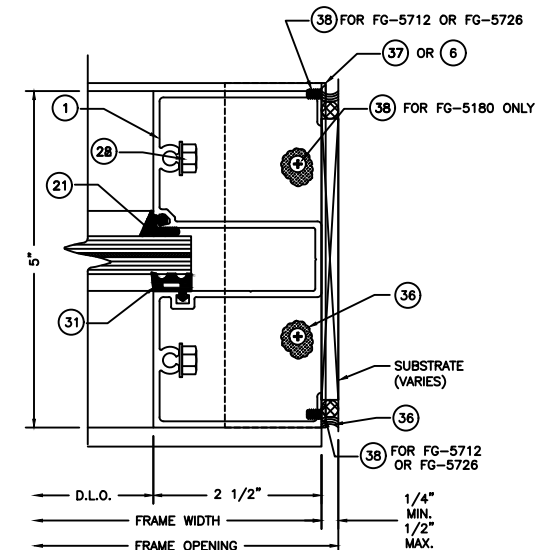
19/30 INSIDE SET HEAVY VERTICAL
M3



20/30 INSIDE SET HEAVY VERTICAL WITH
ALUMINUM REINFORCEMENT
M4



20.1/30 JAMB VERTICAL (NON ANCHORED)



20.2/30 INSIDE SET JAMB VERTICAL
(NON ANCHORED)-J1

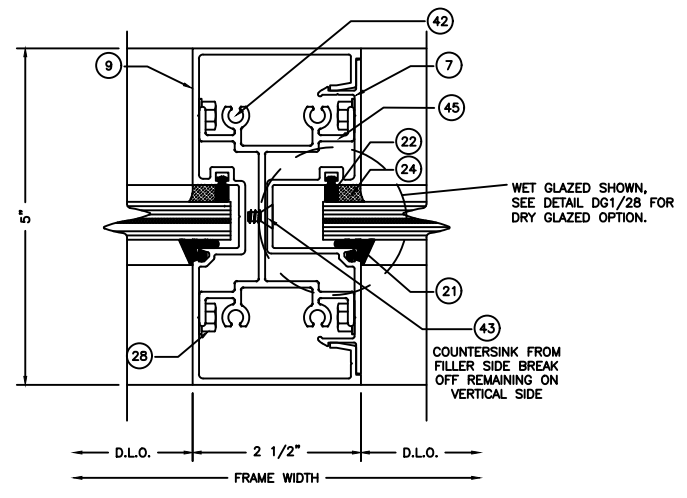
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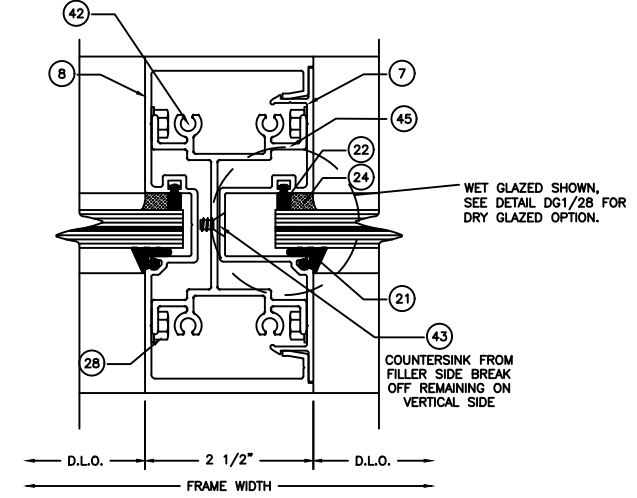
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PE# 0046549 CA# 9885

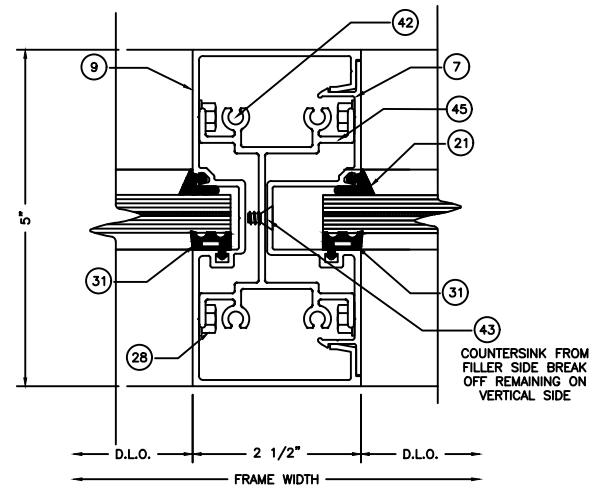
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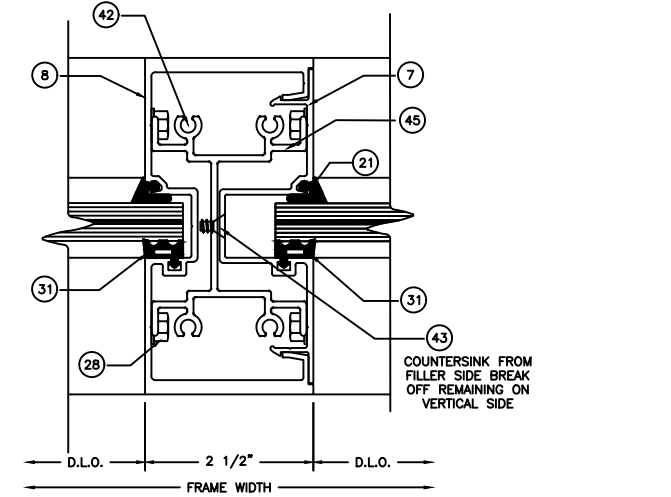
21 CRIPPLED VERTICAL
31



22 CRIPPLED HEAVY VERTICAL
31



23 INSIDE SET CRIPPLED VERTICAL
31



24 INSIDE SET CRIPPLED HEAVY VERTICAL
31

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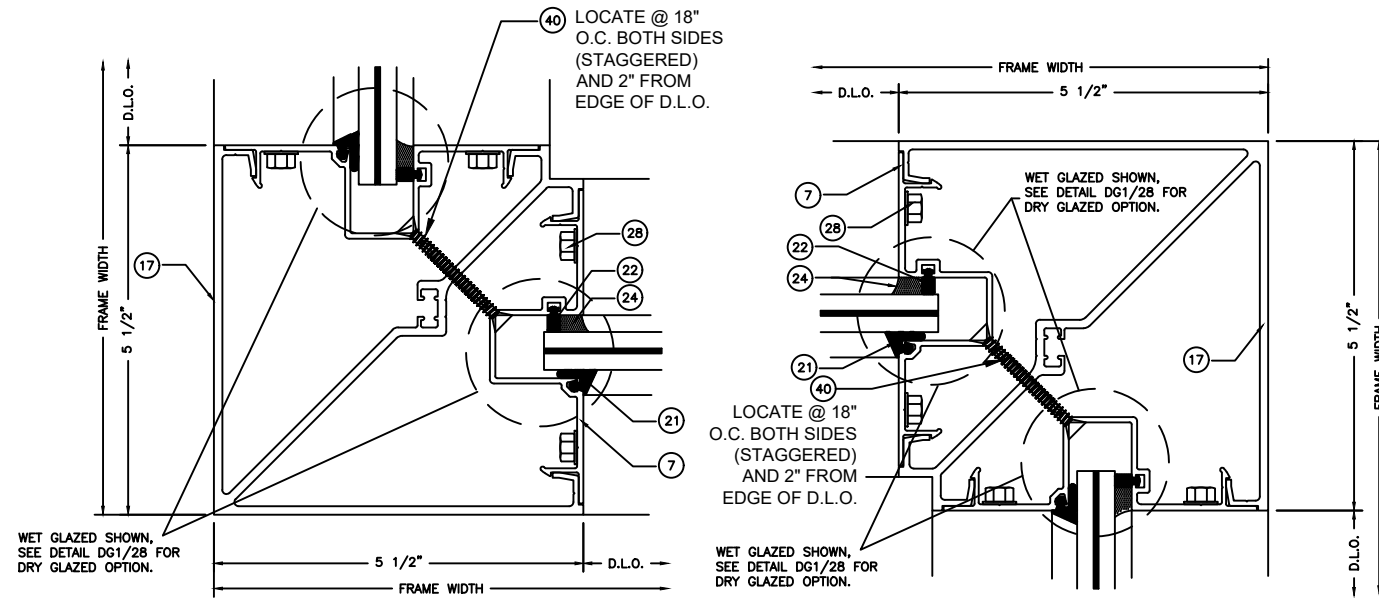
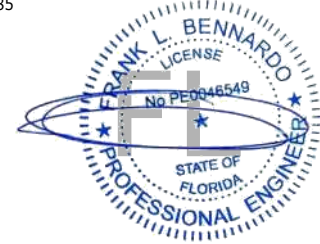
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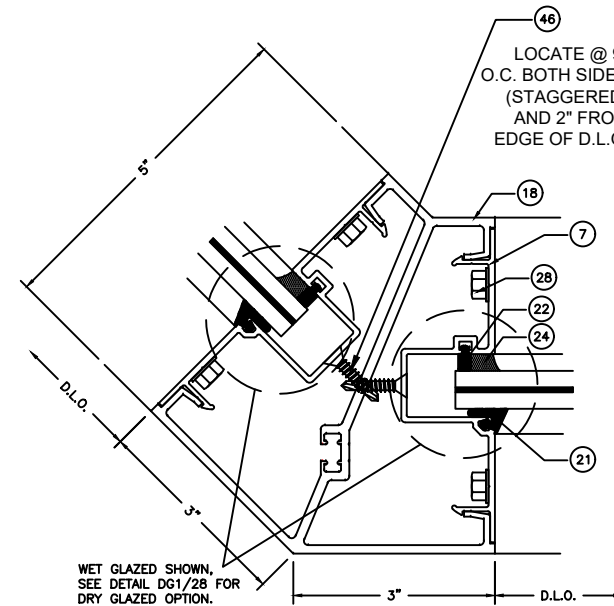


25 90° CORNER POST
32 M6

NOTE: APPROVED FOR USE
OUTSIDE HVHZ

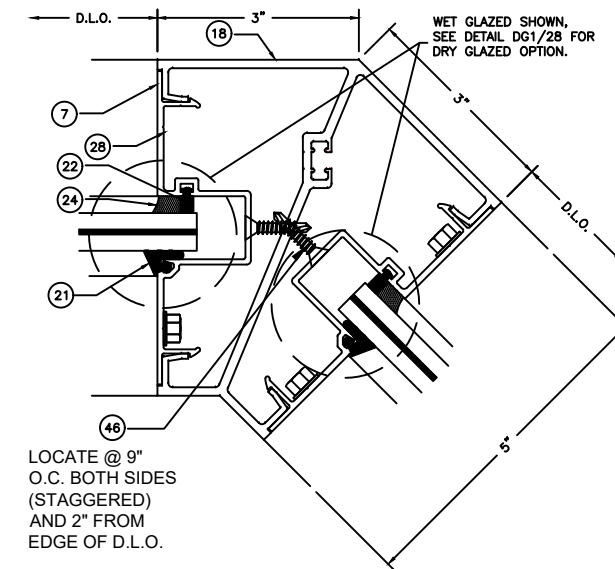
27 90° INSIDE CORNER POST
32 M6

NOTE: APPROVED FOR USE
OUTSIDE HVHZ



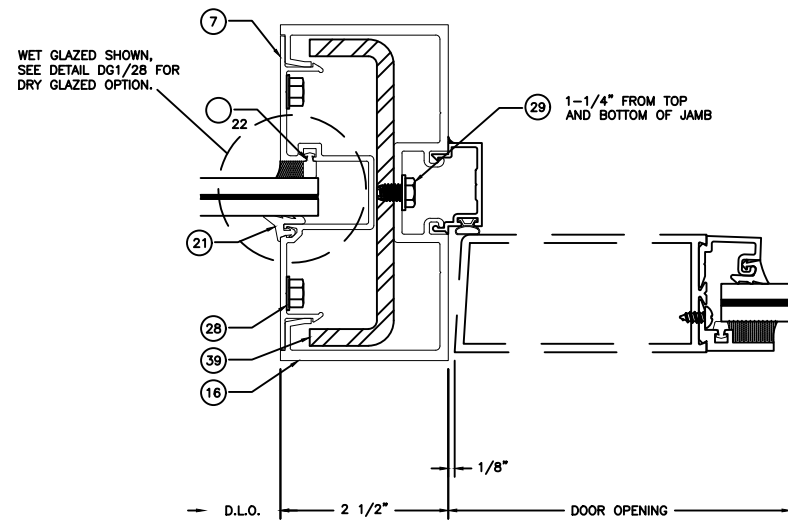
26 135° CORNER POST
32 M7

NOTE: APPROVED FOR USE
OUTSIDE HVHZ

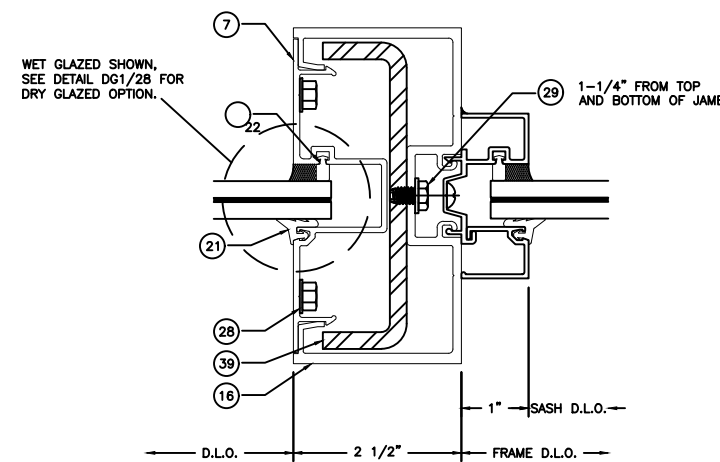


28 135° INSIDE CORNER POST
32 M7

NOTE: APPROVED FOR USE
OUTSIDE HVHZ



29 INTERMEDIATE DOOR JAMB AT SIDELITE
32



30 INTERMEDIATE TRANSOM MULLION AT SIDELITE
32

LOCATE REINFORCEMENT FASTENERS
1-1/4" FROM EACH END.

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WET & DRY GLAZED

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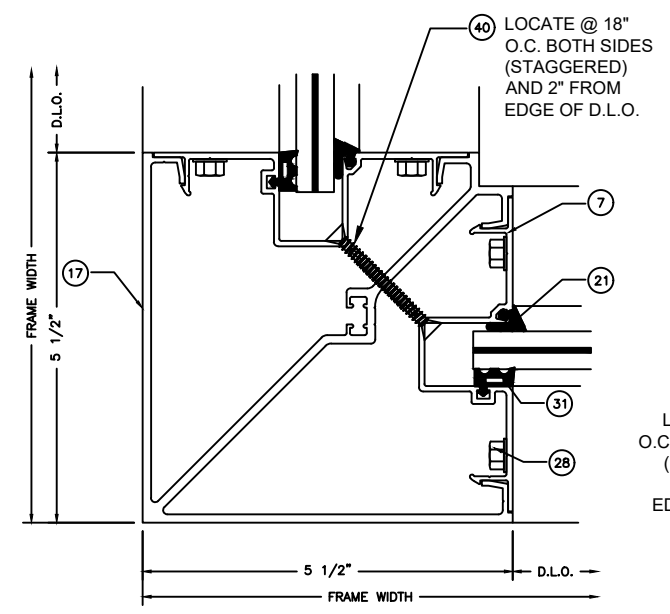
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Frank Bennardo
PE# 0046549 CA# 9885

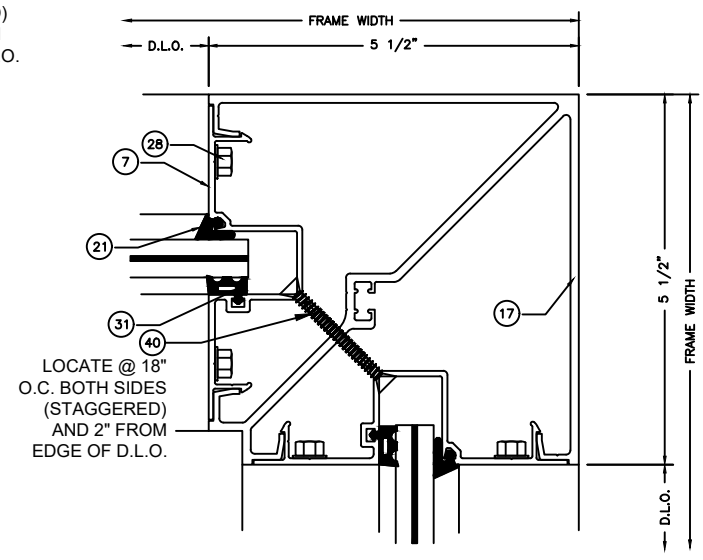
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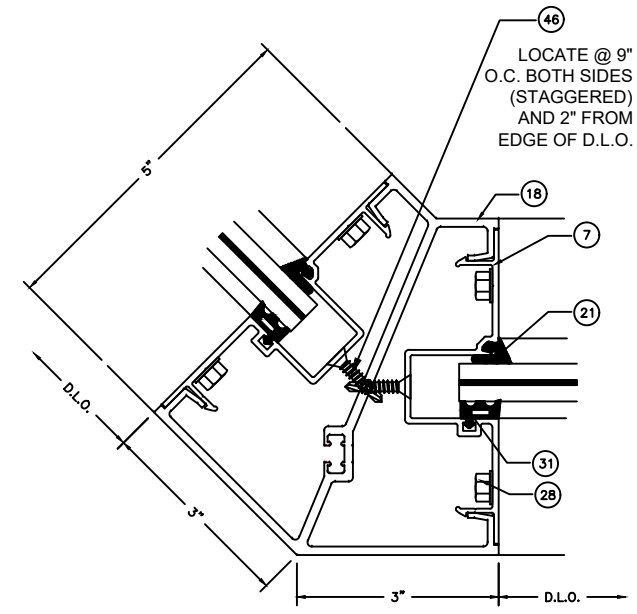
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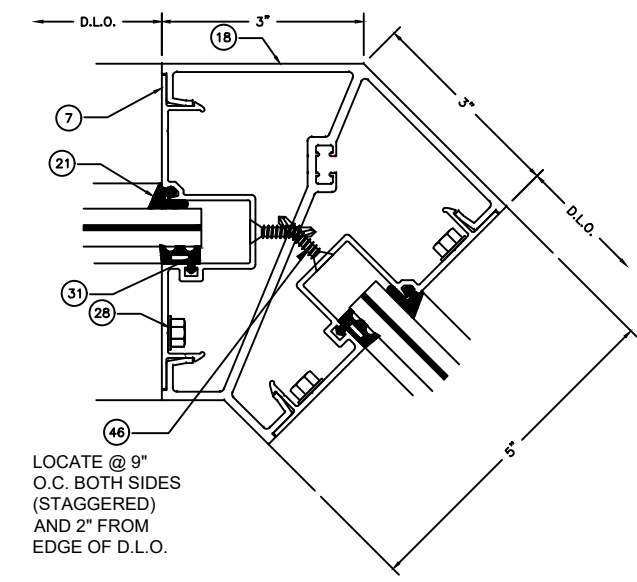
25.1
33 M6
NOTE: APPROVED FOR USE
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27.1
33 M6
NOTE: APPROVED FOR USE
OUTSIDE HVHZ



26.1
33 M7
NOTE: APPROVED FOR USE
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28.1
33 M7
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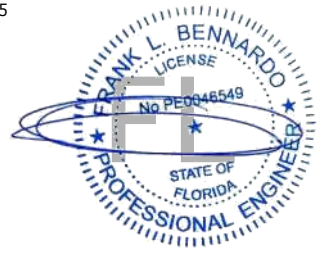
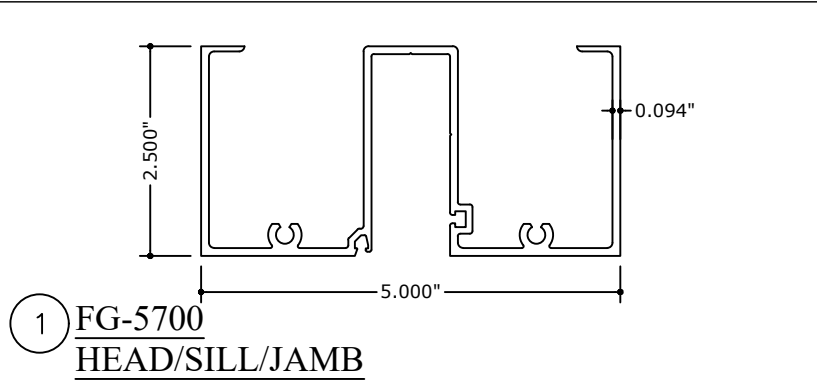
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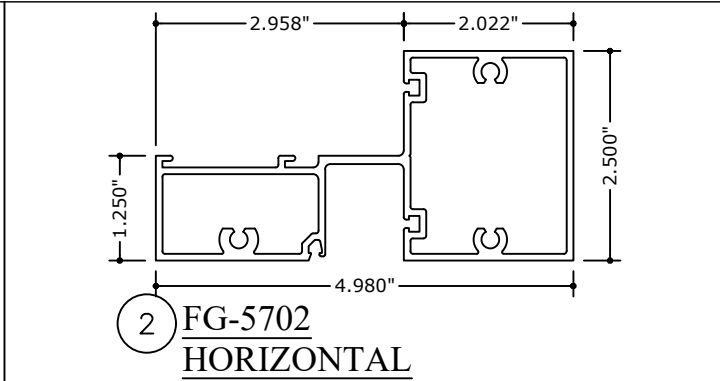
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PE# 0046549 CA# 9885

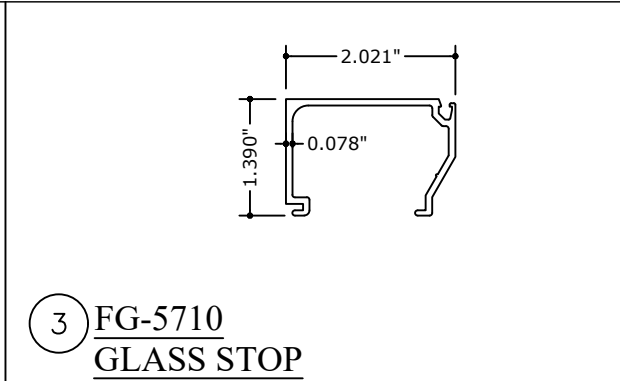
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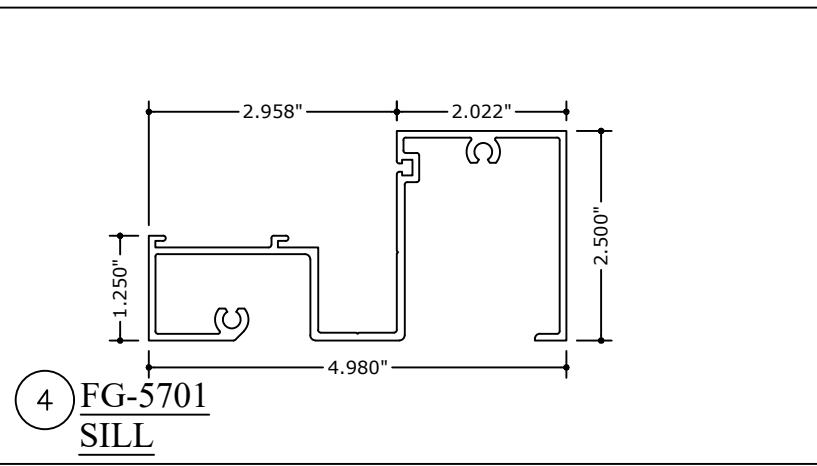
1 FG-5700
HEAD/SILL/JAMB



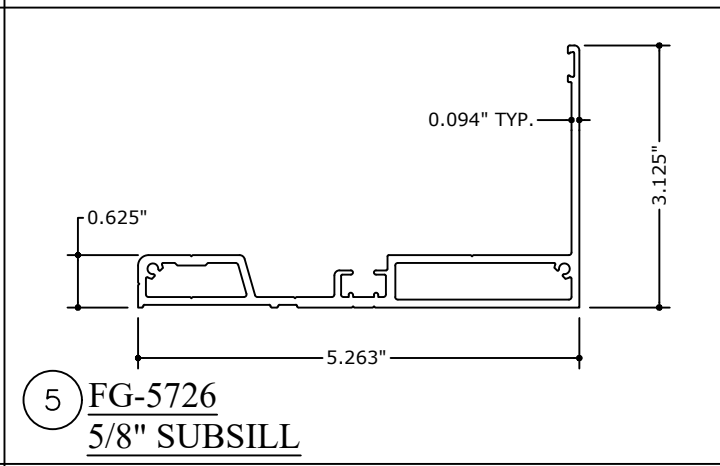
2 FG-5702
HORIZONTAL



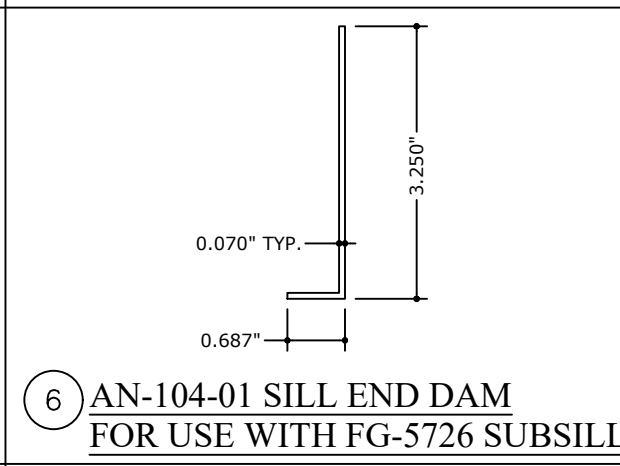
3 FG-5710
GLASS STOP



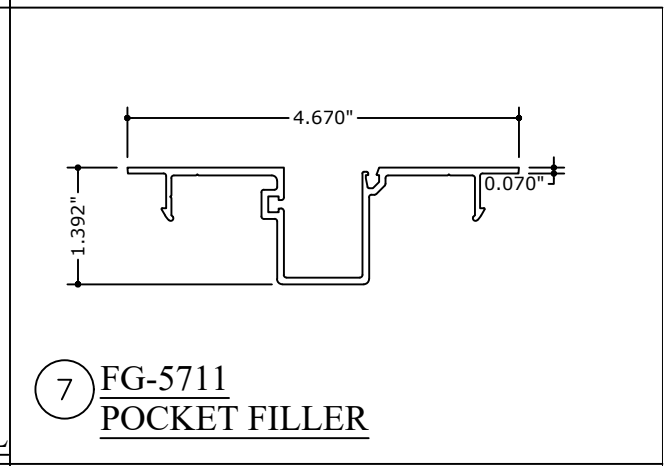
4 FG-5701
SILL



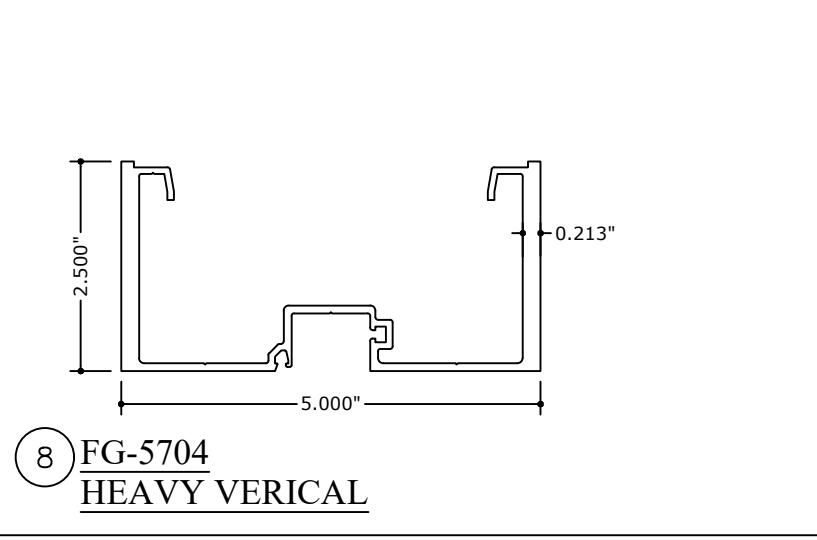
5 FG-5726
5/8" SUBSILL



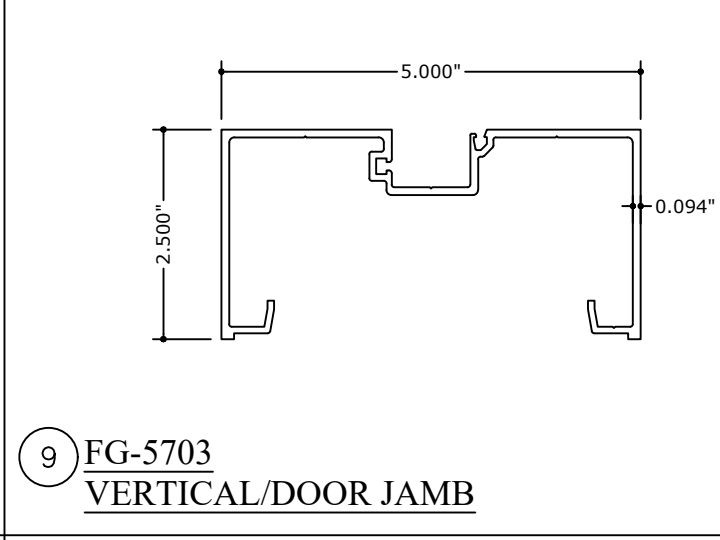
6 AN-104-01 SILL END DAM
FOR USE WITH FG-5726 SUBSILL



7 FG-5711
POCKET FILLER

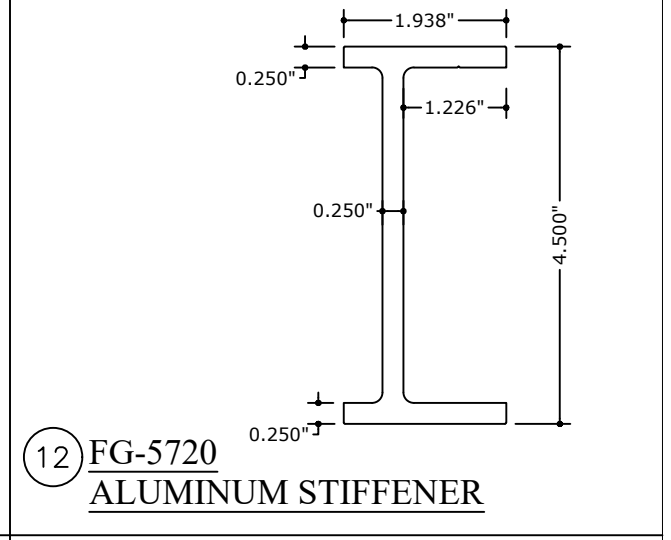


8 FG-5704
HEAVY VERICAL



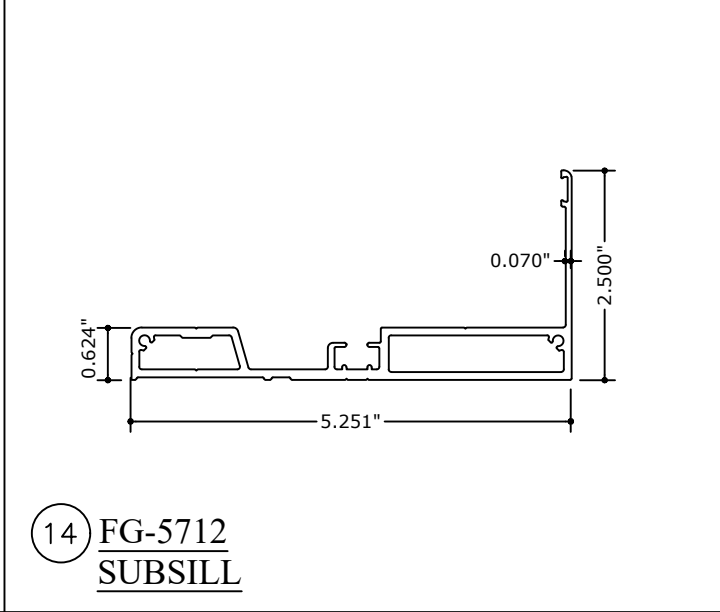
9 FG-5703
VERTICAL/DOOR JAMB

NOT USED

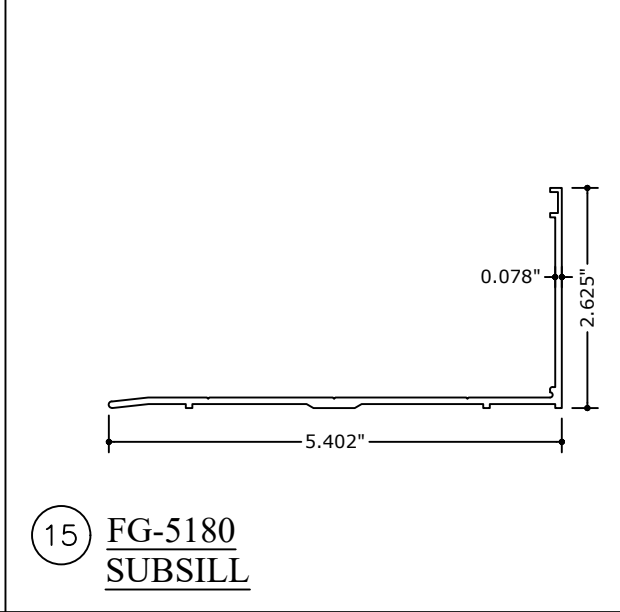


12 FG-5720
ALUMINUM STIFFENER

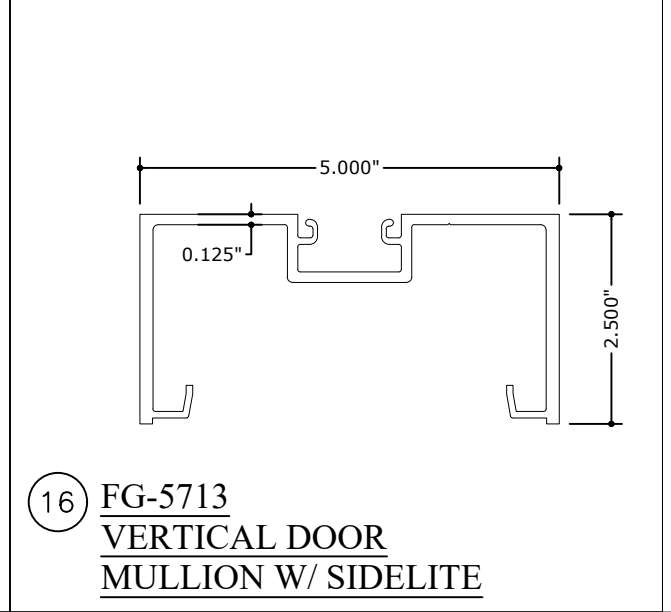
NOT USED



14 FG-5712
SUBSILL



15 FG-5180
SUBSILL



16 FG-5713
VERTICAL DOOR
MULLION W/ SIDELITE

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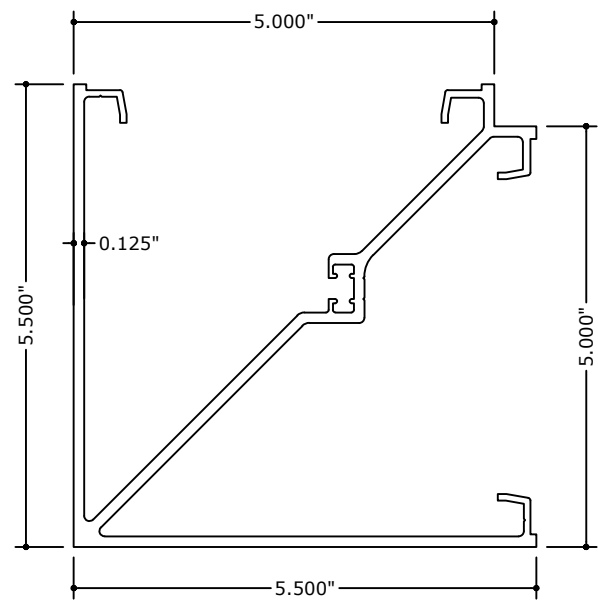
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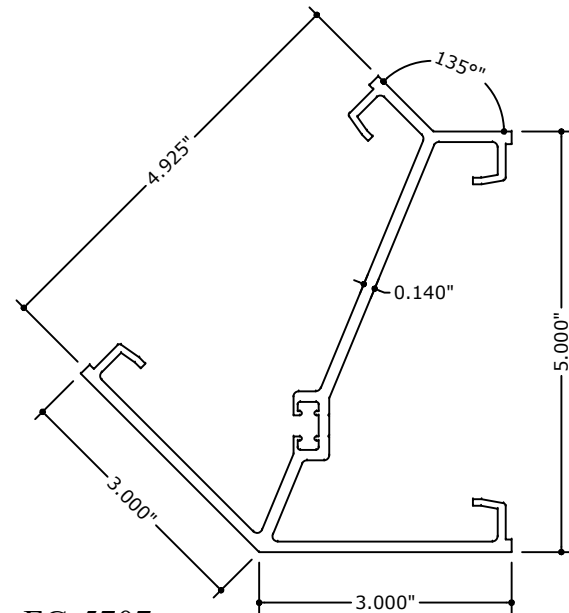
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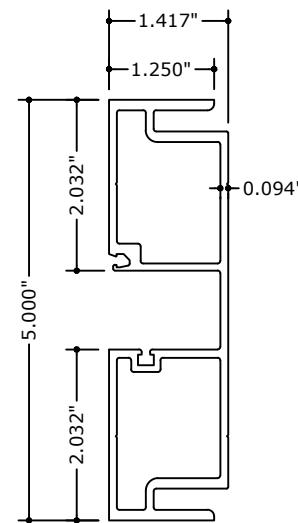
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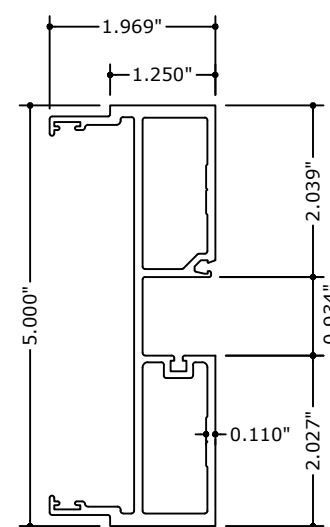
17 FG-5706
90 DEGREE CORNER POST



18 FG-5707
135 DEGREE CORNER POST



19 FG-5724
EXPANSION MULLION



20 FG-5725
EXPANSION MULLION

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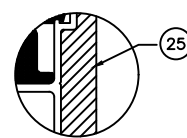
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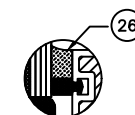
21 FG-5730
EXTERIOR GLAZING GASKET



22 FG-5731
SPACER GASKET



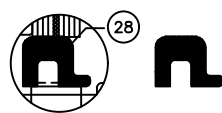
23 SM5601
JOINT TAPE



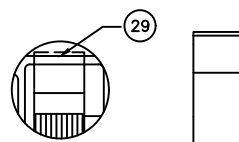
24 DOWSIL 995
SEALANT



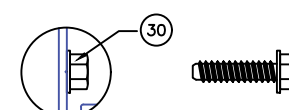
25 FG-5733
SETTING BLOCK



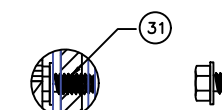
26 FG-5734
SETTING BLOCK



27 FG5790-01
WATER DIVERTER



28 FS-8
JOINT FASTENER



29 FS-354
REINFORCEMENT FASTENER

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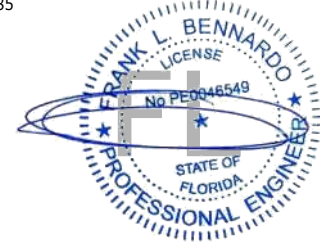
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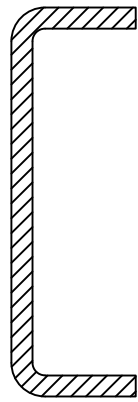
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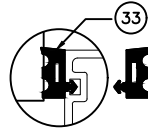
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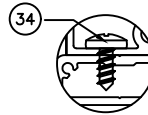
36 OF 37



30 RS-30
STEEL REINFORCEMENT



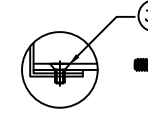
31 FG-5732
DRY GLAZE GASKET



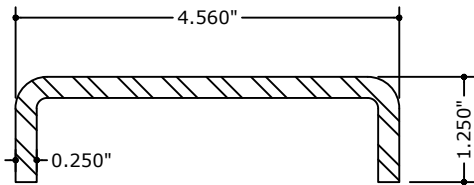
32 FS-27
FASTENER



37 AN-101-01
SILL END DAM
FOR USE WITH FG-5712
& FG-5180 SUBSILL



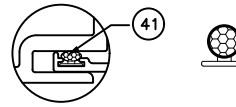
38 FS-23
SILL END DAM
FASTENER



39 FG5000-PP-8
STEEL REINF. AT DOOR JAMB



40 FS-59
CORNER ASSEMBLY FASTENER



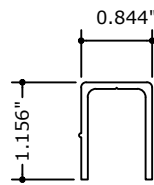
41 CW-998
EXPANSION MULL GASKET



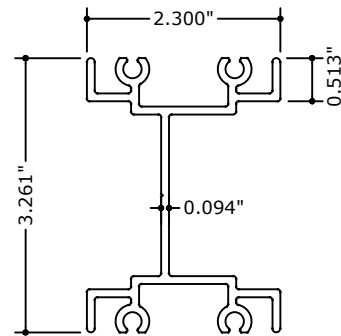
42 FS-96
SHEAR BLOCK
FASTENER



43 FS-56
FASTENER



44 FG-5721-01
SETTING CHAIR



45 FG-5714-01
SHEAR BLOCK



46 FS-58
FASTENER

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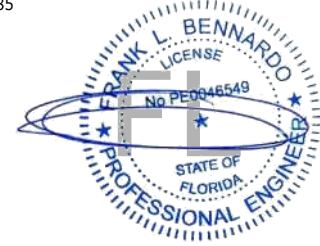
BILL OF MATERIALS

ITEM NO.	P/N	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
ALUMINUM PARTS						
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	
5	FG-5726	5/8" SUBSILL	1.970 X 5.000 X .094	6063-T6 ALUMINUM	OBE	
6	AN-104-01	END DAM (FOR USE WITH FG-5726 SUBSILL)	1.970 X 5.000 X .094	6063-T6 ALUMINUM	OBE	
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	
16	FG-5713	VERTICAL DOOR MULLION W/ SIDELITE	2.500 x 5.000 x 0.125	6063-T6 ALUMINUM	OBE	
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	

ACCESSORY PARTS					NOTES
21	FG-5730	GLAZING GASKET	0.120 SPACE	EPDM	VARIES
22	FG-5731	SPACER GASKET	0.250 SPACE	SILICONE	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	1/4"-20 x 3/8" HH TYPE F	STEEL (GEOMET)	VARIES REINFORCEMENT SCREW, 1-1/4" FROM CORNERS
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
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 FOR USE WITH FG-5712 & FG-5180 SUBSILL
38	FS-23	FASTENER	#6 x 3/8" PPH	STEEL (ZINC PLATED)	VARIES ATTACH END DAM TO SUBSILL
39	FG5000-PP-8	STEEL REINF. AT DOOR JAMB	4.560 x 1.250 x 0.250	STEEL (ZINC PLATED)	VARIES USED AT DOOR JAMBS
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
PE# 0046549 CA# 9885

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