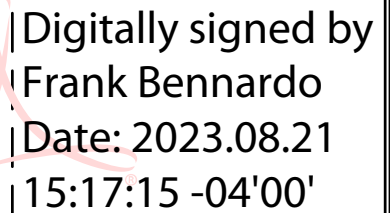


c:\users\sam\engineering express\production - documents\projects\23-123-59835 multiple products 2023 fbc update fl 33108\work\drawings & cad\23-59835b & cad\23-59835b - fl33108.2 - fbc 2023.dwg

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RELIANCE™ STORMMAX® WET GLAZED
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL #33108.2)

REMARKS	DRWN	CHKD	DATE
2020 FBC (19:20:19)	JPC	AJP	08/13/20
2023 FBC UPDATE	SQ	RS	08/16/23
-	-	-	-
-	-	-	-
-	-	-	-

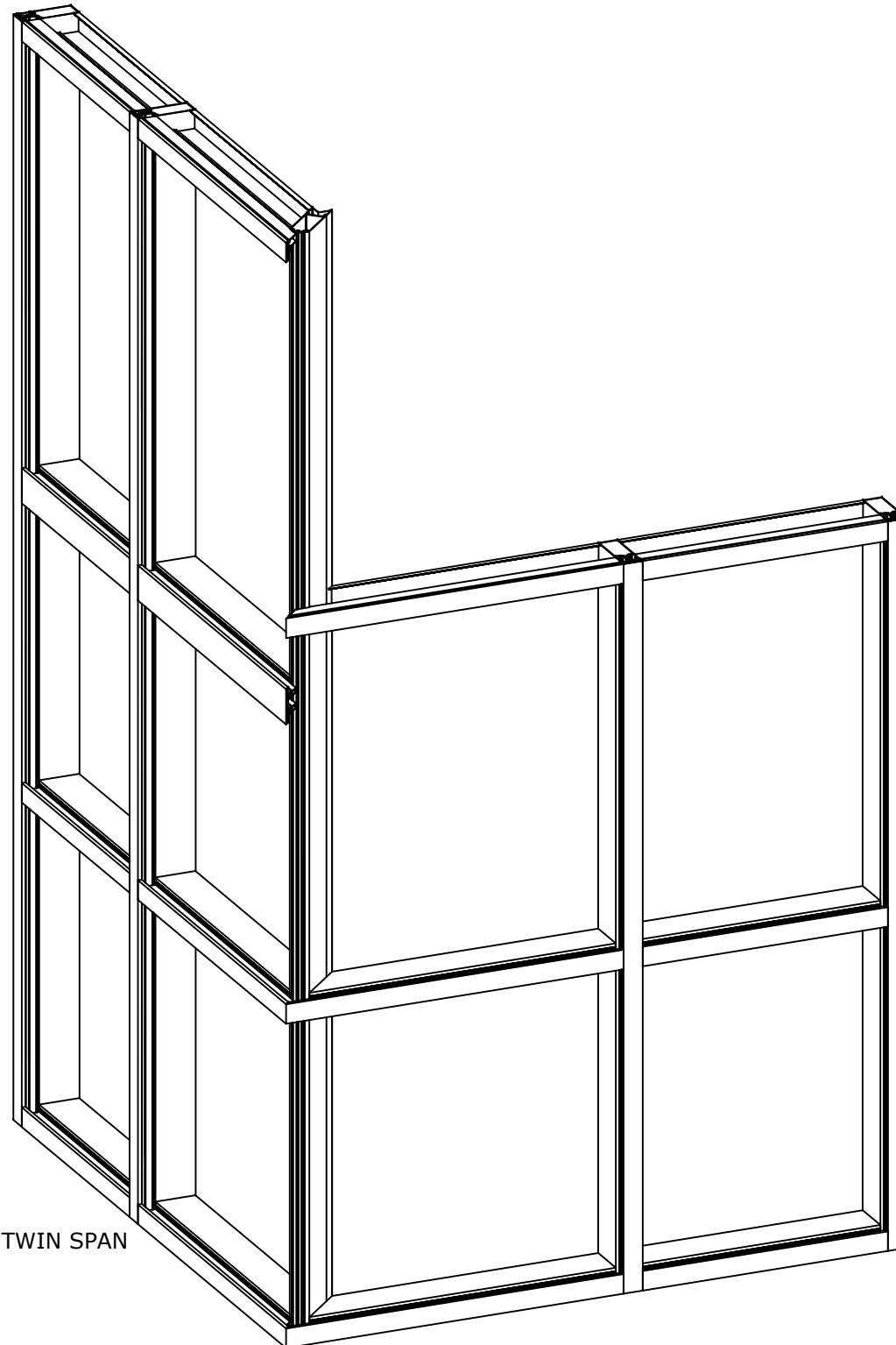
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01 OF 42

SHEET #	DESCRIPTION
---------	-------------

01	COVER SHEET
02	ELEVATIONS
03-05	GLASS LOADING TABLES
06-13	SINGLE SPAN MULLIONS & LOADING TABLES TWIN SPAN
14-22	MULLIONS & LOADING TABLES
23-27	ANCHOR CONNECTION DETAILS
28-30	VERTICAL CONNECTION DETAILS
31-33	DETAILS
34	SPLICE DETAILS
35-36	ZONE PLUG AND PRESSURE PLATE INSTALLATION
37	SUNSHADE OPTION
38-42	EXTRUSIONS / PART LIST
42	TOTAL



NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA ONLY**. USE IN FLORIDA OR ANY OTHER STATE SHALL REQUIRE A REVIEW & CERTIFICATION BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THAT STATE, WHO SHALL BE RESPONSIBLE FOR THE CONTENT & PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE FOR ASSISTANCE WITH YOUR PROJECT NEEDS.

1. THE SYSTEM AND GLASS TYPES DESCRIBED HEREIN COMPLY AND HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023) PER
 - a. ASTM E330, E331, E283, E1886, E1996
 - b. TAS 201 / 202 / 203
 - c. AAMA 501
 - d. ANSI Z97.1 (400 ft-LB IMPACT)
2. FOR USE **WITHIN AND OUTSIDE** THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
3. GLASS UNIT(S) SHALL MEET THE REQUIREMENTS OF ASTM E-1300.
4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
5. 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.
6. 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.
7. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
8. 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.
9. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
10. ENGINEER SEAL AFFIXED HERETO VALIDATE 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. IF SLOPED GLAZING IS NEEDED, IT SHALL BE ALLOWED UNDER SITE SPECIFIC ENGINEERING. DESIGN MUST BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER AND THE MANUFACTURER(S).
16. UNITS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION.

FOR SITE-SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
OR SCAN THIS QR CODE

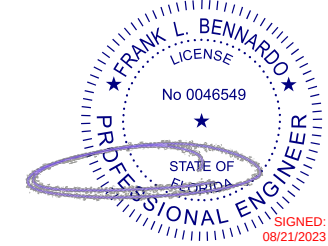


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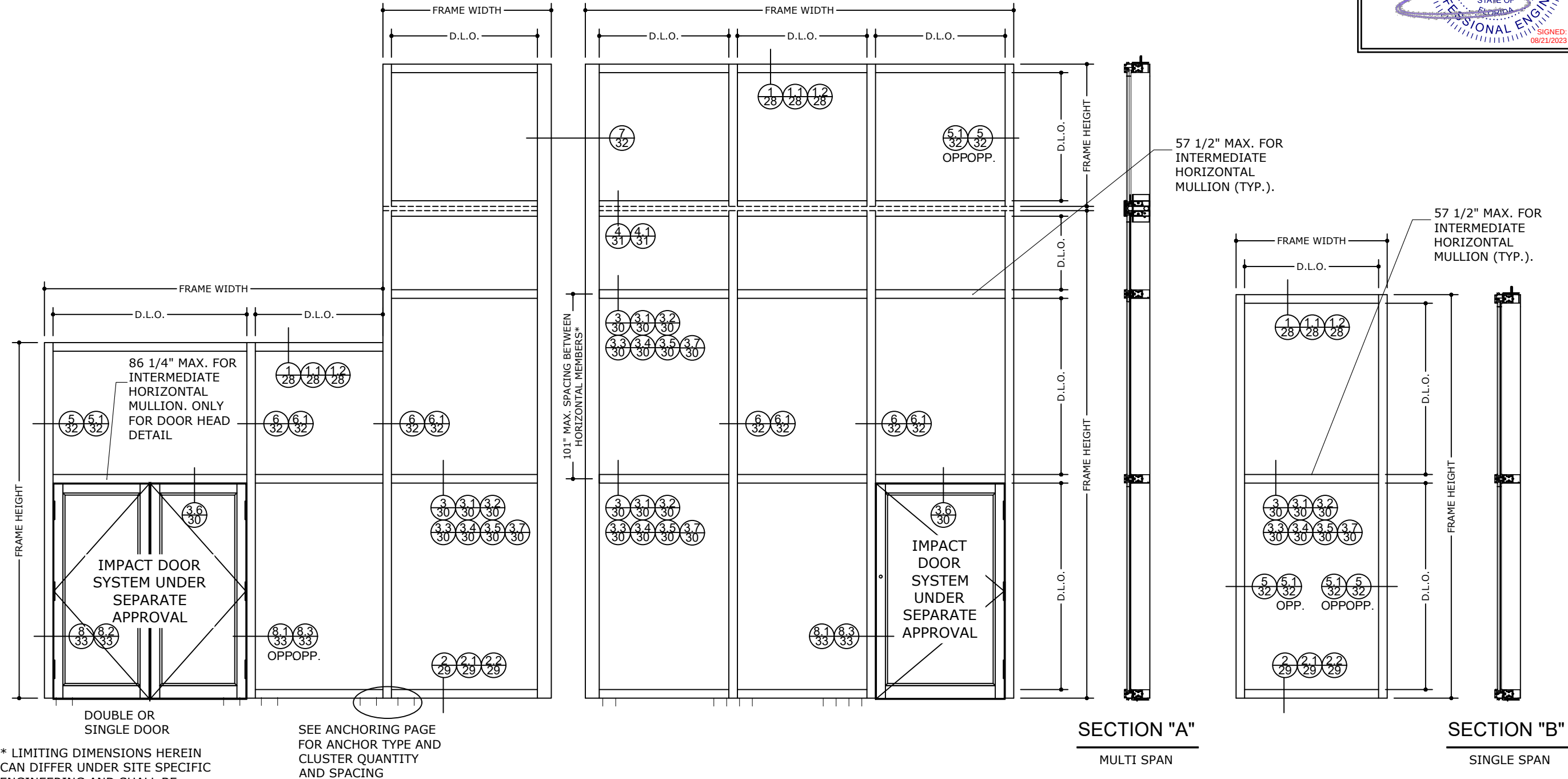
ELEVATIONS DRAWING FOR Reliance™ StormMax® WET GLAZED
IMPACT RESISTANT CAPTURED CURTAIN WALL SYSTEM

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

AUGUST 21, 2023



FL



* LIMITING DIMENSIONS HEREIN
CAN DIFFER UNDER SITE SPECIFIC
ENGINEERING AND SHALL BE
APPROVED BY THE AUTHORITY
HAVING JURISDICTION (AHJ)

SEE ANCHORING PAGE
FOR ANCHOR TYPE AND
CLUSTER QUANTITY
AND SPACING

TYPICAL CURTAINWALL ELEVATION

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 6 FOR SINGLE SPAN OR PAGE 14 FOR TWIN SPAN.
NOTE: FOR TWIN SPANS, BOTH MULLIONS SPANS NEED TO BE LOOKED UP IN THE MULLION LOADING TABLES AND THE MINIMUM PRESSURE SHALL GOVERN.
- STEP ③: THE MINIMUM VALUE BETWEEN STEP ① AND STEP ② WILL DETERMINE THE DESIGN LOAD PRESSURE FOR THE CURTAIN WALL SYSTEM.

WATER INFILTRATION NOTE:
WATER RESISTANCE PER TAS 202 AND ASTM E331= 15 P.S.F

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

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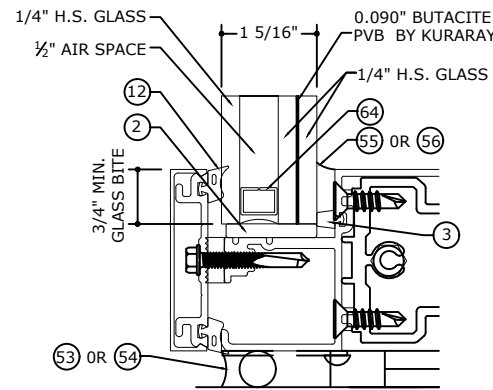
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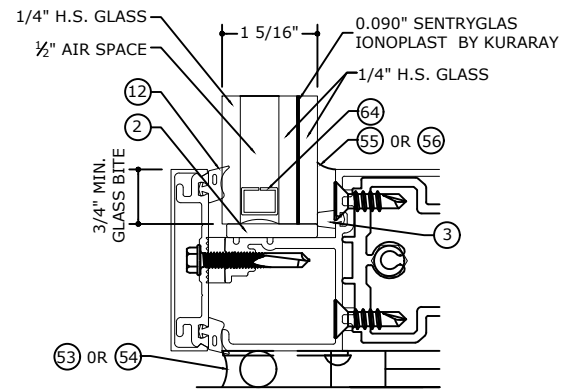
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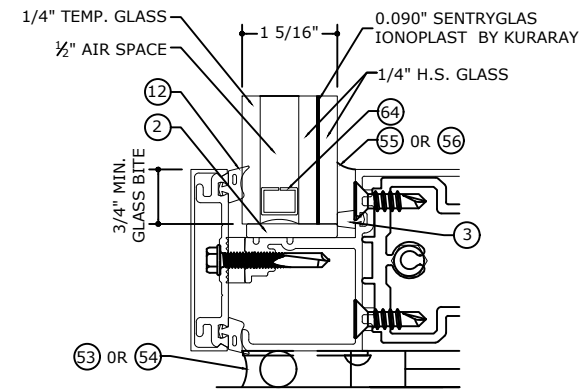
GLASS TYPE  G1
GLAZING DETAIL

GLASS RATING:
LARGE MISSILE LEVEL D
1 $\frac{5}{16}$ " GLASS



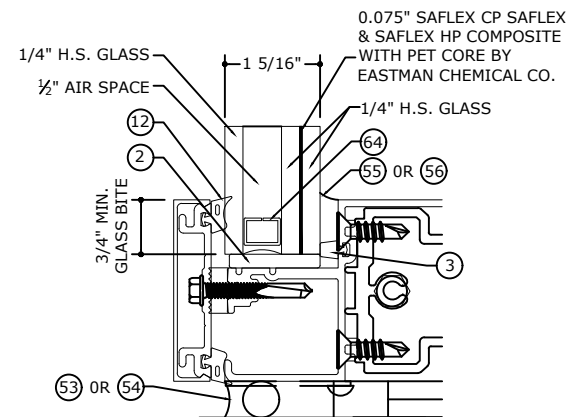
GLASS TYPE  G4
GLAZING DETAIL

GLASS RATING:
LARGE MISSILE LEVEL D
1 5/16" GLASS



GLASS TYPE  G4A
GLAZING DETAIL

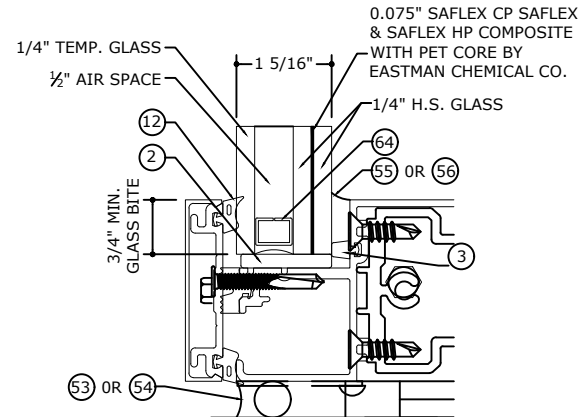
GLASS RATING:
LARGE MISSILE LEVEL D
1 5/16" GLASS



GLASS TYPE  G11

GLAZING DETAIL

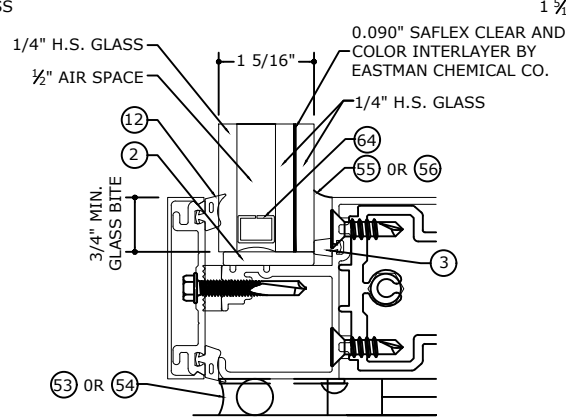
GLASS RATING:
LARGE MISSILE LEVEL D
1 5/16" GLASS



GLASS TYPE  G12

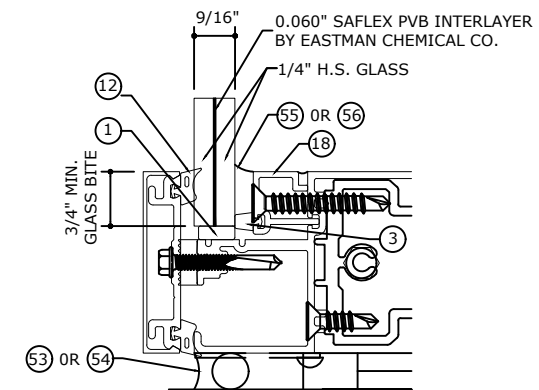
GLAZING DETAIL

GLASS RATING:
LARGE MISSILE LEVEL D
1 5/16" GLASS



GLASS TYPE  G31
GLAZING DETAIL

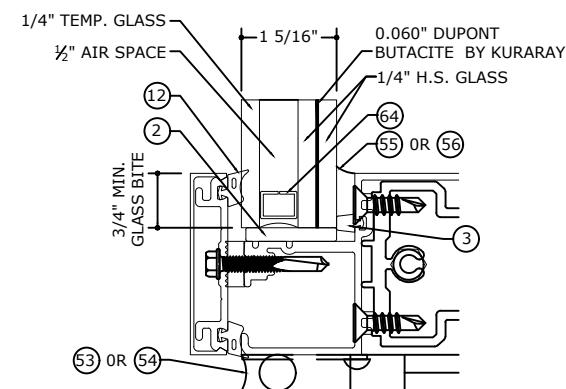
GLASS RATING:
LARGE MISSILE LEVEL D
1 5/16" GLASS



GLASS TYPE **G10**
GLAZING DETAIL

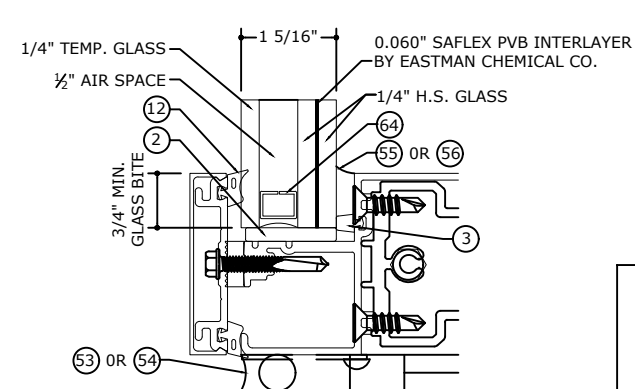
GLASS RATING:
LARGE MISSILE LEVEL D
9/16" GLASS

GLASS TYPES (S.M.I.)



GLASS TYPE 
GLAZING DETAIL

GLASS RATING:
SMALL MISSILE
1 $\frac{5}{16}$ " GLASS



GLASS TYPE  G36
GLAZING DETAIL

GLASS RATING:
SMALL MISSILE
1 5/16" GLASS

NOTES:

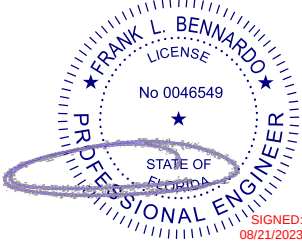
1. NOTE:  G11 &  G31 SHALL NOT BE USED FOR INSTALLATIONS WITHIN THE HVHZ.
2. OPTIONAL GLASS CAPS, FINS, OR SIMILAR ACCESSORIES OF VARIOUS SIZES MAY BE ATTACHED WITH SILICONE, BASED ON SITE SPECIFIC CALCULATIONS

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GLASS LOADING TABLES

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GLASS TYPES		G1G31		G7G36		G4G4AG10G11G12	
		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
54	24	65	65	100	100	100	100
	30	65	65	100	100	100	100
	36	65	65	100	100	100	100
	43	65	65	100	100	100	100
	48	58	58	100	100	100	100
	54	51	51	100	100	100	100
	57-1/2	51	51	100	100	100	100
	60	51	51	100	100	100	100
	66	51	51	100	100	100	100
	72	51	51	100	100	100	100
60	24	65	65	100	100	100	100
	30	65	65	100	100	100	100
	36	65	65	100	100	100	100
	43	65	65	100	100	100	100
	48	58	58	100	100	100	100
	54	51	51	100	100	100	100
	57-1/2	48	48	100	100	100	100
	60	46	46	95	95	95	95
	66	46	46	95	95	95	95
	72	46	46	95	95	95	95
66	24	65	65	100	100	100	100
	30	65	65	100	100	100	100
	36	65	65	100	100	100	100
	43	65	65	100	100	100	100
	48	58	58	100	100	100	100
	54	51	51	100	100	100	100
	57-1/2	48	48	100	100	100	100
	60	46	46	95	95	95	95
	66	-	-	87	87	87	87
	72	-	-	87	87	87	87

GLASS TYPES		G1G31		G7G36		G4G4AG10G11G12	
		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
72	24	65	65	100	100	100	100
	30	65	65	100	100	100	100
	36	65	65	100	100	100	100
	43	65	65	100	100	100	100
	48	58	58	100	100	100	100
	54	51	51	100	100	100	100
	57-1/2	48	48	100	100	100	100
	60	46	46	95	95	95	95
	66	-	-	87	87	87	87
	72	-	-	-	-	79	79
78	24	65	65	100	100	100	100
	30	65	65	100	100	100	100
	36	65	65	100	100	100	100
	43	65	65	100	100	100	100
	48	58	58	100	100	100	100
	54	51	51	100	100	100	100
	57-1/2	-	-	100	100	100	100
	60	-	-	95	95	95	95
	66	-	-	-	-	87	87
84	24	65	65	100	100	100	100
	30	65	65	100	100	100	100
	36	65	65	100	100	100	100
	43	65	65	100	100	100	100
	48	58	58	100	100	100	100
	54	-	-	100	100	100	100
	57-1/2	-	-	100	100	100	100
	60	-	-	-	-	95	95

NOTE:
D.L.O. WIDTH AND HEIGHT
DIMENSIONS CAN BE REVERSED.

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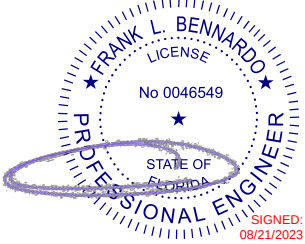
04

OF
42

GLASS LOADING TABLES

GLASS TYPES		G1 G31		G7 G36		G4 G4A G10 G11 G12	
		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
90	24	65	65	100	100	100	100
	30	65	65	100	100	100	100
	36	65	65	100	100	100	100
	43	65	65	100	100	100	100
	48	58	58	97	97	100	100
	54	-	-	-	-	100	100
	57-1/2	-	-	-	-	100	100
	60	-	-	-	-	95	95
96	24	65	65	100	100	100	100
	30	65	65	100	100	100	100
	36	65	65	100	100	100	100
	43	65	65	92	92	100	100
	48	-	-	84	84	100	100
	54	-	-	-	-	100	100
	57-1/2	-	-	-	-	100	100
100-1/2	24	65	65	100	100	100	100
	30	65	65	100	100	100	100
	36	65	65	98	98	100	100
	43	65	65	83	83	100	100
	48	-	-	76	76	100	100
	54	-	-	-	-	94	94
108	24	65	65	100	100	100	100
	30	65	65	100	100	100	100
	36	65	65	84	84	100	100
	43	-	-	72	72	98	98
	48	-	-	-	-	89	89

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	-	-	-
	-	-	-

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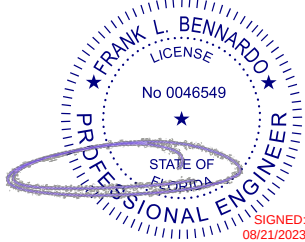
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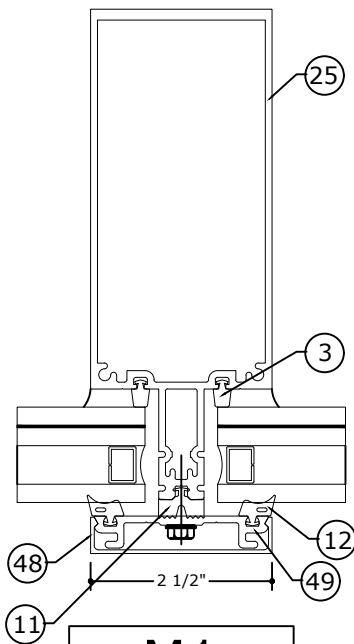
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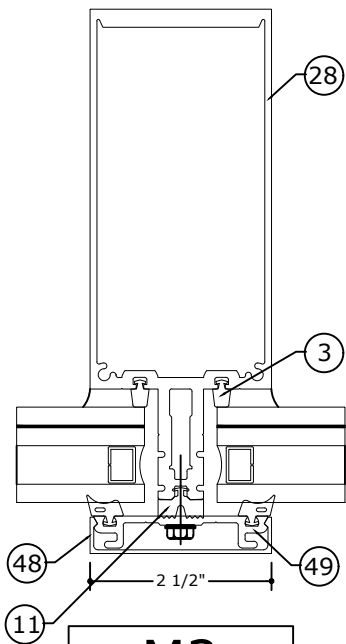


M1

Ix= 10.803 in4
Sx= 3.1168 in3

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REF. DETAIL 6 ON 32

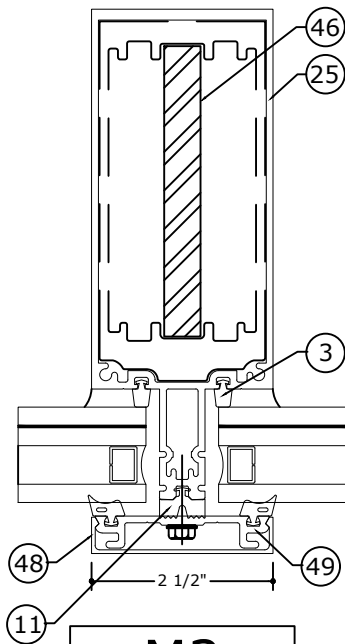


M2

Ix= 14.226 in4
Sx= 4.0529 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 6.1 ON 32

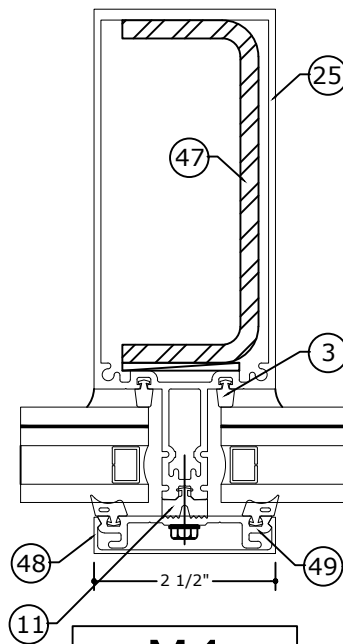


M3

Ix= 28.759 in4
Sx= 6.7634 in3

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ALUMINUM

REF. DETAIL 6 ON 32

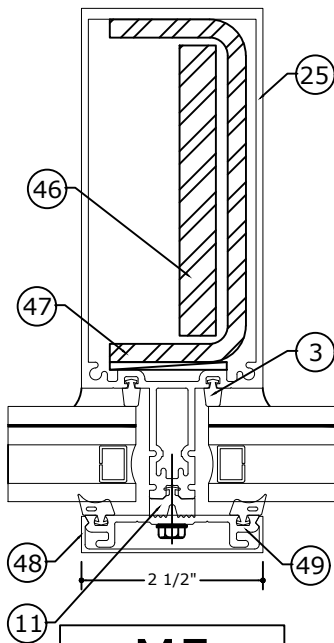


M4

Ix= 29.375 in4
Sx= 7.31 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 6 ON 32

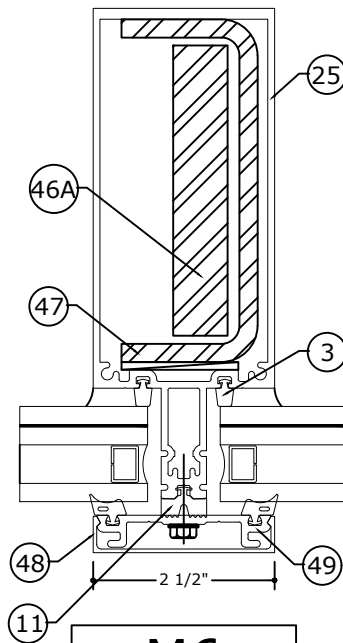


M5

Ix= 33.207 in4
Sx= 7.602 in3

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ALUMINUM

REF. DETAIL 6 ON 32

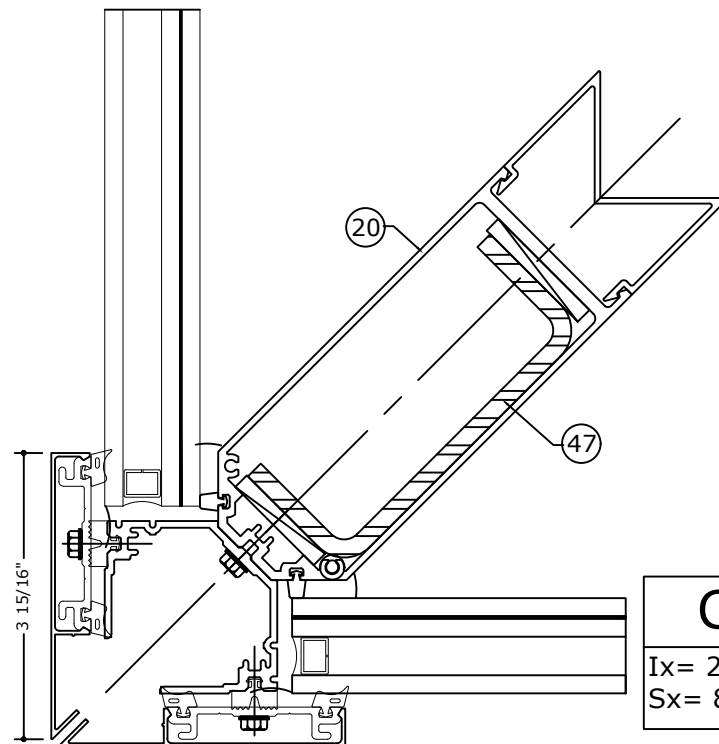


M6

Ix= 37.074 in4
Sx= 8.487 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 6 ON 32



CM1

Ix= 27.782 in4
Sx= 8.6737 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 7 ON 32

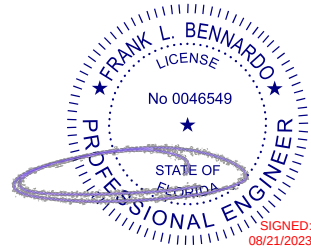
NOTE:
SINGLE SPAN
REINFORCEMENT IS FULL
LENGTH.

NOTE:
REINFORCEMENT MEMBERS
MUST BE SHIMMED TIGHT.

RelianceTM StormMax[®] SINGLE SPAN MULLION

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

AUGUST 21, 2023



FL

FL 33108.2

ENGINEERING
EXPRESS

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TERRELL, TX 75160
PHONE: (972) 551-6100

RELIANCETM STORMMAX[®] WET GLAZED
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#33108.2)

REMARKS	DRWN	CHKD	DATE
2020 FBC (19-20199)	JPC	AJP	08/13/20
2023 FBC UPDATE	SQ	RS	08/16/23

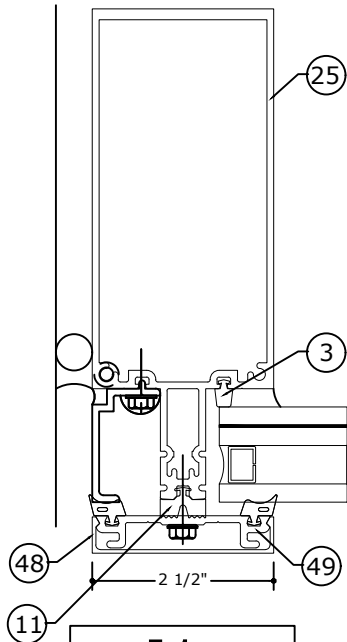
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23-59835b

SCALE: NTS UNLESS NOTED

08

OF
42

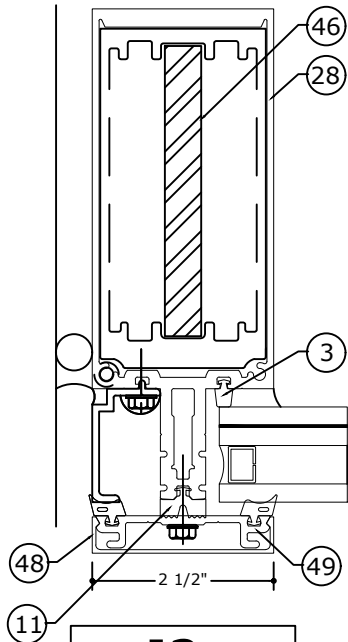


J1

Ix= 10.803 in4
Sx= 3.1168 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 5 ON 32

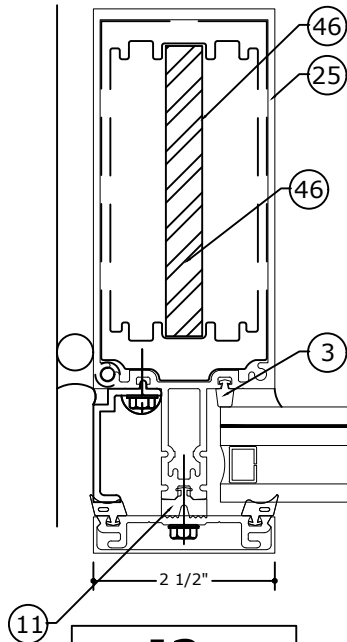


J2

Ix= 32.182 in4
Sx= 7.568 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 5.1 ON 32

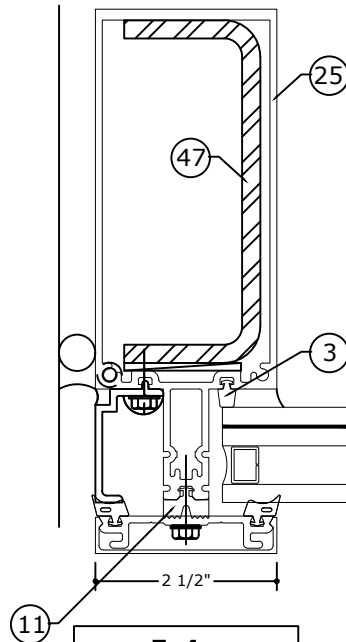


J3

Ix= 28.759 in4
Sx= 6.7634 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 5 ON 32

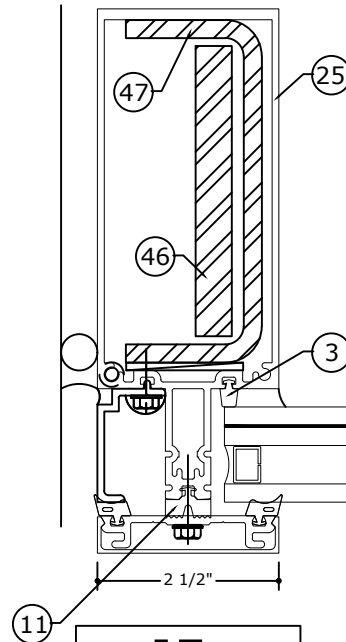


J4

Ix= 29.375 in4
Sx= 7.31 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 5 ON 32



J5

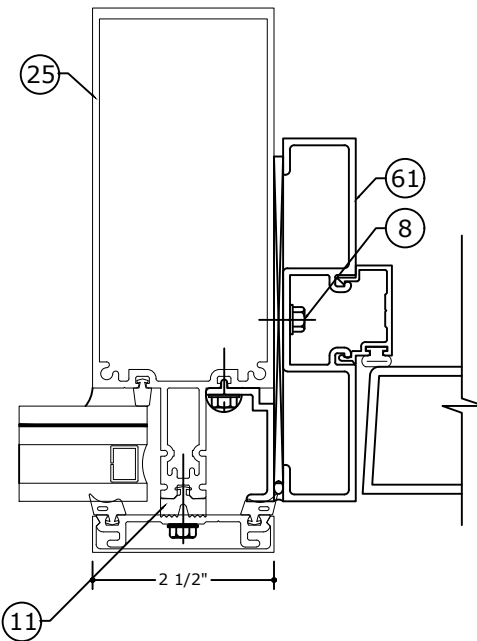
Ix= 33.207 in4
Sx= 7.602 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 5 ON 32

NOTE:
SINGLE SPAN
REINFORCEMENT IS FULL
LENGTH.

NOTE:
REINFORCEMENT MEMBERS
MUST BE SHIMMED TIGHT.

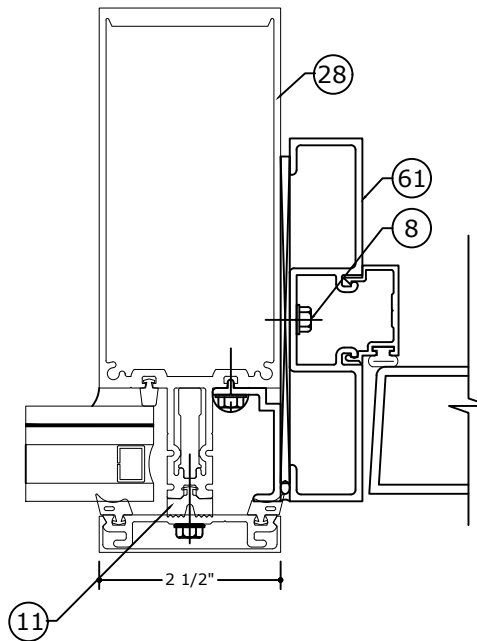


DJ1

Ix= 10.803 in4
Sx= 3.1168 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 8.1 ON 33

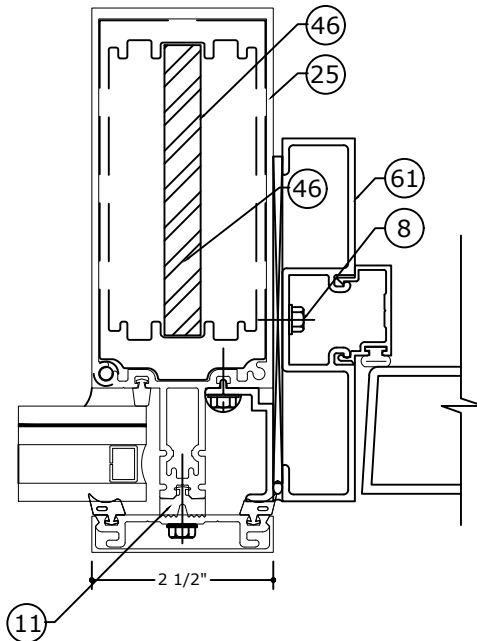


DJ2

Ix= 14.226 in4
Sx= 4.0529 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 8.2 ON 33

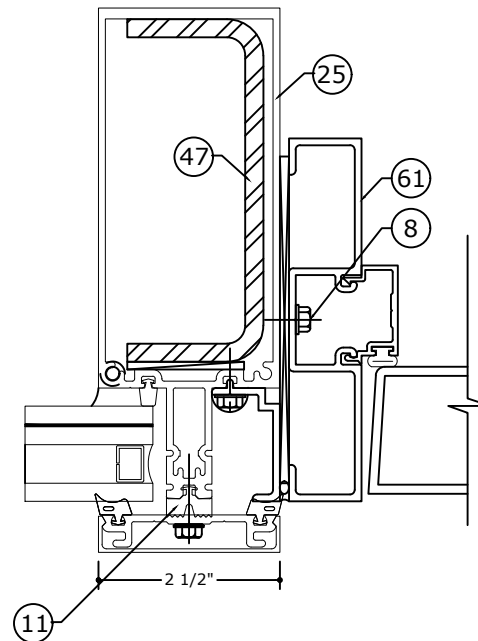


DJ3

Ix= 28.759 in4
Sx= 6.7634 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 8.1 ON 33

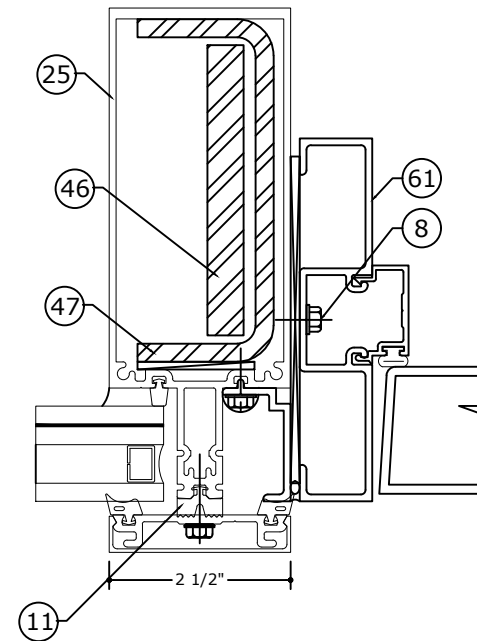


DJ4

Ix= 29.375 in4
Sx= 7.31 in3

IN TERMS OF
ALUMINUM

REF. DETAIL 8.1 ON 33



DJ5

Ix= 33.207 in4
Sx= 7.602 in3

IN TERMS OF
ALUMINUM

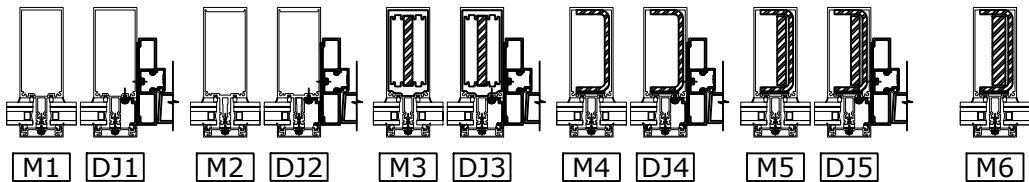
REF. DETAIL 8.1 ON 33

c:\users\sam\engineering express\production - documents\projects\23-59835 multiple products 2023 fbc update fl 33108\work\drawings & cad\23-59835b - fl33108.2 - fbc 2023.dwg

8/21/2023 11:14 AM SAM

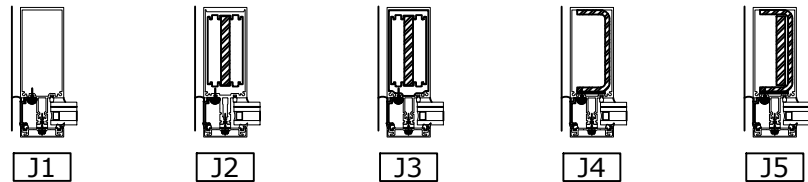
MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD
MULLIONS - SINGLE SPAN

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE	
		M1 - DJ1		M2 - DJ2		M3 - DJ3		M4 - DJ4		M5 - DJ5		M6	
FRAME HEIGHT (in)	TRIBUTARY 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.
60	24	65	65	70	70	100	100	100	100	70	80	100	100
	30	65	65	70	70	100	100	100	100	70	80	100	100
	36	65	65	70	70	100	100	100	100	70	80	100	100
	42	65	65	70	70	100	100	100	100	70	80	100	100
	48	65	65	70	70	100	100	100	100	70	80	100	100
	54	65	65	70	70	100	100	100	100	70	80	100	100
	60	65	65	70	70	100	100	100	100	70	80	100	100
	66	65	65	70	70	100	100	100	100	70	80	100	100
	72	65	65	70	70	100	100	100	100	70	80	100	100
	74	-	-	70	70	100	100	100	100	70	80	100	100
67	24	65	65	70	70	100	100	100	100	70	80	100	100
	30	65	65	70	70	100	100	100	100	70	80	100	100
	36	65	65	70	70	100	100	100	100	70	80	100	100
	42	65	65	70	70	100	100	100	100	70	80	100	100
	48	65	65	70	70	100	100	100	100	70	80	100	100
	54	65	65	70	70	100	100	100	100	70	80	100	100
	60	65	65	70	70	100	100	100	100	70	80	100	100
	66	65	65	70	70	100	100	100	100	70	80	100	100
	72	65	65	70	70	100	100	100	100	70	80	100	100
	74	-	-	70	70	100	100	100	100	70	80	100	100
73	24	65	65	70	70	100	100	100	100	70	80	100	100
	30	65	65	70	70	100	100	100	100	70	80	100	100
	36	65	65	70	70	100	100	100	100	70	80	100	100
	42	65	65	70	70	100	100	100	100	70	80	100	100
	48	65	65	70	70	100	100	100	100	70	80	100	100
	54	65	65	70	70	100	100	100	100	70	80	100	100
	60	65	65	70	70	100	100	100	100	70	80	100	100
	66	65	65	70	70	100	100	100	100	70	80	100	100
	72	65	65	70	70	100	100	100	100	70	80	100	100
	74	-	-	70	70	100	100	100	100	70	80	100	100
78	24	65	65	70	70	100	100	100	100	70	80	100	100
	30	65	65	70	70	100	100	100	100	70	80	100	100
	36	65	65	70	70	100	100	100	100	70	80	100	100
	42	65	65	70	70	100	100	100	100	70	80	100	100
	48	65	65	70	70	100	100	100	100	70	80	100	100
	54	65	65	70	70	100	100	100	100	70	80	100	100
	60	65	65	70	70	100	100	100	100	70	80	100	100
	66	65	65	-	-	100	100	100	100	70	80	100	100
	72	-	-	-	-	100	100	100	100	70	80	100	100
	74	-	-	-	-	100	100	100	100	70	80	100	100

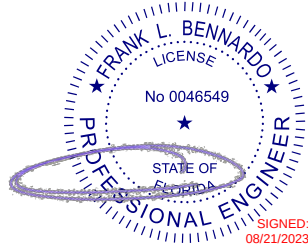


MAXIMUM A.S.D. DESIGN PRESSURE
RATING FOR STANDARD JAMBS -
SINGLE SPAN

SINGLE SPAN JAMB LOADING CHART		JAMB TYPE		JAMB TYPE		JAMB TYPE		JAMB TYPE		JAMB TYPE	
		J1		J2		J3		J4		J5	
FRAME HEIGHT (in)	TRIBUTARY 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.
60	8	70	70	100	100	70	70	100	100	70	70
	12	70	70	100	100	70	70	100	100	70	70
	16	70	70	100	100	70	70	100	100	70	70
	20	70	70	100	100	70	70	100	100	70	70
	25-1/2	70	70	100	100	70	70	100	100	70	70
	31-1/2	70	70	100	100	70	70	100	100	70	70
	38	70	70	100	100	70	70	100	100	70	70
	44	70	70	100	100	70	70	100	100	70	70
	50	-	-	100	100	70	70	100	100	70	70
	56	-	-	100	100	70	70	100	100	70	70
67	8	70	70	100	100	70	70	100	100	70	70
	12	70	70	100	100	70	70	100	100	70	70
	16	70	70	100	100	70	70	100	100	70	70
	20	70	70	100	100	70	70	100	100	70	70
	25-1/2	70	70	100	100	70	70	100	100	70	70
	31-1/2	70	70	100	100	70	70	100	100	70	70
	38	70	70	100	100	70	70	100	100	70	70
	44	-	-	100	100	70	70	100	100	70	70
	50	-	-	100	100	70	70	100	100	70	70
	56	-	-	100	100	-	-	100	100	70	70
73	8	70	70	100	100	70	70	100	100	70	70
	12	70	70	100	100	70	70	100	100	70	70
	16	70	70	100	100	70	70	100	100	70	70
	20	70	70	100	100	70	70	100	100	70	70
	25-1/2	70	70	100	100	70	70	100	100	70	70
	31-1/2	70	70	100	100	70	70	100	100	70	70
	38	-	-	100	100	70	70	100	100	70	70
	44	-	-	100	100	70	70	100	100	70	70
	50	-	-	100	100	-	-	100	100	70	70
	56	-	-	100	100	-	-	100	100	70	70
78	8	70	70	100	100	70	70	100	100	70	70
	12	70	70	100	100	70	70	100	100	70	70
	16	70	70	100	100	70	70	100	100	70	70
	20	70	70	100	100	70	70	100	100	70	70
	25-1/2	70	70	100	100	70	70	100	100	70	70
	31-1/2	70	70	100	100	70	70	100	100	70	70
	38	-	-	100	100	70	70	100	100	70	70
	44	-	-	100	100	70	70	100	100	70	70
	50	-	-	100	100	-	-	100	100	70	70
	56	-	-	100	100	-	-	100	100	70	70



FRANK BENNARDO, PE
PE# 0046549 CA# 9885



AUGUST 21, 2023

FL

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TERRELL, TX 75160

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RELIANCE™ STORMMAX® WET GLAZED
FLORIDA BUILDING CODE EIGHTH EDITION (2023)

FLORIDA STATEWIDE APPROVAL (FSA FL#33108.2)

REMARKS	2020 FBC (19-20199) 2023 FBC UPDATE	DRWN		CHKD		DATE	
		JPC	AJP	RS	RS	08/13/20	08/16/23

23-59835b

SCALE: NTS UNLESS NOTED

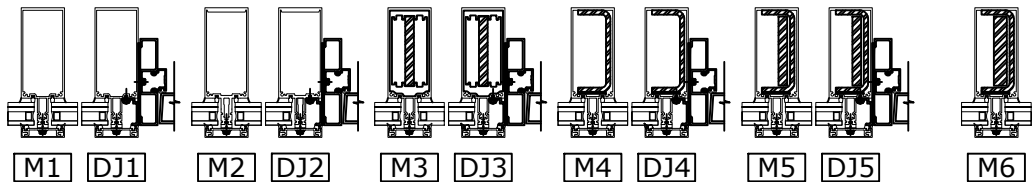
09 OF 42

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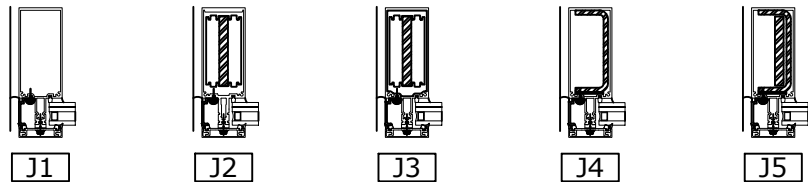
MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD
MULLIONS - SINGLE SPAN

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE	
		M1 - DJ1		M2 - DJ2		M3 - DJ3		M4 - DJ4		M5 - DJ5		M6	
FRAME HEIGHT (in)	TRIBUTARY 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.
84	24	65	65	70	70	100	100	100	100	70	80	100	100
	30	65	65	70	70	100	100	100	100	70	80	100	100
	36	65	65	70	70	100	100	100	100	70	80	100	100
	42	65	65	70	70	100	100	100	100	70	80	100	100
	48	65	65	70	70	100	100	100	100	70	80	100	100
	54	65	65	70	70	100	100	100	100	70	80	100	100
	60	65	65	-	-	100	100	100	100	70	80	100	100
	66	-	-	-	-	100	100	100	100	70	80	100	100
	72	-	-	-	-	100	100	100	100	70	80	100	100
	74	-	-	-	-	100	100	100	100	70	80	100	100
90	24	65	65	70	70	100	100	100	100	70	80	100	100
	30	65	65	70	70	100	100	100	100	70	80	100	100
	36	65	65	70	70	100	100	100	100	70	80	100	100
	42	65	65	70	70	100	100	100	100	70	80	100	100
	48	65	65	70	70	100	100	100	100	70	80	100	100
	54	65	65	-	-	100	100	100	100	70	80	100	100
	60	-	-	-	-	100	100	100	100	70	80	100	100
	66	-	-	-	-	100	100	100	100	70	80	100	100
	72	-	-	-	-	100	100	100	100	70	80	100	100
	74	-	-	-	-	100	100	100	100	70	80	100	100
96	24	65	65	70	70	100	100	100	100	70	80	100	100
	30	65	65	70	70	100	100	100	100	70	80	100	100
	36	65	65	70	70	100	100	100	100	70	80	100	100
	42	65	65	70	70	100	100	100	100	70	80	100	100
	48	65	65	70	70	100	100	100	100	70	80	100	100
	54	63	63	-	-	100	100	100	100	70	80	100	100
	60	-	-	-	-	100	100	100	100	70	80	100	100
	66	-	-	-	-	100	100	100	100	70	80	100	100
	72	-	-	-	-	100	100	100	100	70	80	100	100
	74	-	-	-	-	100	100	100	100	70	80	100	100
101	24	65	65	70	70	100	100	100	100	70	80	100	100
	30	65	65	70	70	100	100	100	100	70	80	100	100
	36	65	65	70	70	100	100	100	100	70	80	100	100
	42	65	65	70	70	100	100	100	100	70	80	100	100
	48	63	63	70	70	100	100	100	100	70	80	100	100
	54	-	-	-	-	100	100	100	100	70	80	100	100
	60	-	-	-	-	100	100	100	100	70	80	100	100
	66	-	-	-	-	100	100	100	100	70	80	100	100
	72	-	-	-	-	100	100	100	100	70	80	100	100
	74	-	-	-	-	100	100	100	100	70	80	100	100

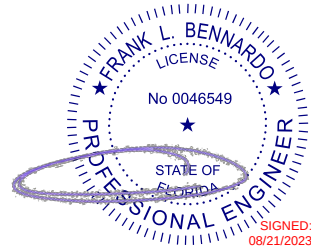


MAXIMUM A.S.D. DESIGN PRESSURE
RATING FOR STANDARD JAMBS -
SINGLE SPAN

SINGLE SPAN JAMB LOADING CHART		JAMB TYPE		JAMB TYPE		JAMB TYPE		JAMB TYPE		JAMB TYPE	
		J1		J2		J3		J4		J5	
FRAME HEIGHT (in)	TRIBUTARY 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.
84	8	70	70	100	100	70	70	100	100	70	80
	12	70	70	100	100	70	70	100	100	70	80
	16	70	70	100	100	70	70	100	100	70	80
	20	70	70	100	100	70	70	100	100	70	80
	25-1/2	70	70	100	100	70	70	100	100	70	80
	31-1/2	70	70	100	100	70	70	100	100	70	80
	38	-	-	100	100	70	70	100	100	70	80
	44	-	-	100	100	-	-	100	100	70	80
	50	-	-	100	100	-	-	100	100	70	80
	56	-	-	-	-	-	-	-	-	70	80
90	8	70	70	100	100	70	70	100	100	70	80
	12	70	70	100	100	70	70	100	100	70	80
	16	70	70	100	100	70	70	100	100	70	80
	20	70	70	100	100	70	70	100	100	70	80
	25-1/2	70	70	100	100	70	70	100	100	70	80
	31-1/2	-	-	100	100	70	70	100	100	70	80
	38	-	-	100	100	70	70	100	100	70	80
	44	-	-	100	100	-	-	100	100	70	80
	50	-	-	100	100	-	-	100	100	70	80
	56	-	-	-	-	-	-	-	-	70	80
96	8	70	70	100	100	70	70	100	100	70	80
	12	70	70	100	100	70	70	100	100	70	80
	16	70	70	100	100	70	70	100	100	70	80
	20	70	70	100	100	70	70	100	100	70	80
	25-1/2	70	70	100	100	70	70	100	100	70	80
	31-1/2	-	-	100	100	70	70	100	100	70	80
	38	-	-	100	100	-	-	100	100	70	80
	44	-	-	100	100	-	-	100	100	70	80
	50	-	-	-	-	-	-	-	-	70	80
	56	-	-	-	-	-	-	-	-	70	80
101	8	70	70	100	100	70	70	100	100	70	80
	12	70	70	100	100	70	70	100	100	70	80
	16	70	70	100	100	70	70	100	100	70	80
	20	70	70	100	100	70	70	100	100	70	80
	25-1/2	70	70	100	100	70	70	100	100	70	80
	31-1/2	-	-	100	100	70	70	100	100	70	80
	38	-	-	100	100	-	-	100	100	70	80
	44	-	-	100	100	-	-	100	100	70	80
	50	-	-	-	-	-	-	-	-	70	80
	56	-	-	-	-	-	-	-	-	70	80



FRANK BENNARDO, PE
PE# 0046549 CA# 9885



AUGUST 21, 2023

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FLORIDA STATEWIDE APPROVAL (FSA FL#33108.2)

REMARKS	2020 FBC (19-20199) 2023 FBC UPDATE	DRWN		CHKD		DATE	
		JPC	AJP	RS	RS	08/13/20	08/16/23

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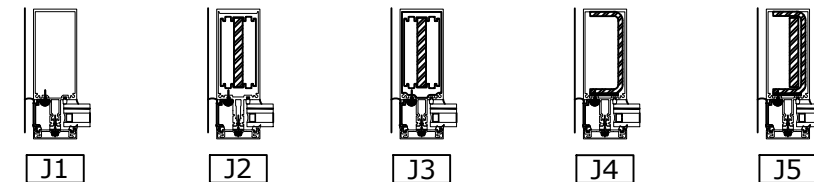
23-59835b

SCALE: NTS UNLESS NOTED

10 OF 42



MAXIMUM A.S.D. DESIGN PRESSURE
RATING FOR STANDARD JAMBS -
SINGLE SPAN

[illegible]

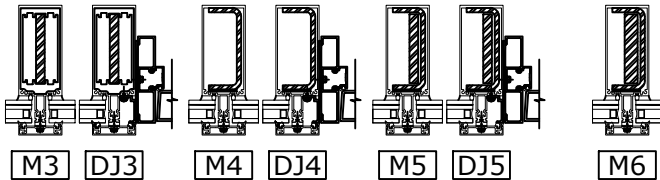
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42

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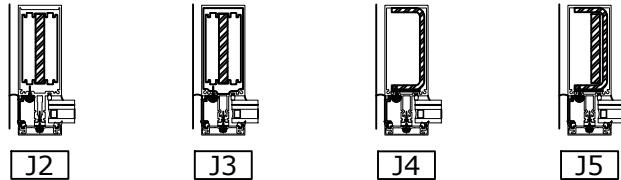
MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD
MULLIONS - SINGLE SPAN

SINGLE SPAN MULLION LOADING CHART		MULLION TYPE		MULLION TYPE		MULLION TYPE		MULLION TYPE	
		M3 - DJ3		M4 - DJ4		M5 - DJ5		M6	
FRAME HEIGHT (in)	TRIBUTARY 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.
132	24	100	100	100	100	70	80	100	100
	30	100	100	100	100	70	80	100	100
	36	100	100	100	100	70	80	100	100
	42	100	100	100	100	70	80	100	100
	48	100	100	100	100	70	80	100	100
	54	100	100	100	100	70	80	100	100
	60	100	100	100	100	70	80	100	100
	66	100	100	100	100	70	80	100	100
	72	-	-	-	-	70	80	-	-
	74	-	-	-	-	70	80	-	-
138	24	100	100	100	100	70	80	100	100
	30	100	100	100	100	70	80	100	100
	36	100	100	100	100	70	80	100	100
	42	100	100	100	100	70	80	100	100
	48	100	100	100	100	70	80	100	100
	54	100	100	100	100	70	80	100	100
	60	100	100	100	100	70	80	100	100
	66	-	-	-	-	70	80	-	-
	72	-	-	-	-	70	80	-	-
	74	-	-	-	-	70	80	-	-
144	24	100	100	100	100	70	80	100	100
	30	100	100	100	100	70	80	100	100
	36	100	100	100	100	70	80	100	100
	42	100	100	100	100	70	80	100	100
	48	100	100	100	100	70	80	100	100
	54	100	100	100	100	70	80	100	100
	60	100	100	100	100	70	80	100	100
	66	-	-	-	-	70	80	-	-
	72	-	-	-	-	70	80	-	-
	74	-	-	-	-	70	80	-	-
150	24	100	100	100	100	70	80	100	100
	30	100	100	100	100	70	80	100	100
	36	100	100	100	100	70	80	100	100
	42	100	100	100	100	70	80	100	100
	48	100	100	100	100	70	80	100	100
	54	100*	100*	100*	100*	70	80	100*	100*
	60	100*	100*	100*	100*	70	80	100*	100*
	66	-	-	-	-	70	80	-	-
	72	-	-	-	-	70*	80*	-	-
	74	-	-	-	-	70*	80*	-	-



MAXIMUM A.S.D. DESIGN PRESSURE
RATING FOR STANDARD JAMBS -
SINGLE SPAN

SINGLE SPAN JAMB LOADING CHART		JAMB TYPE		JAMB TYPE		JAMB TYPE		JAMB TYPE	
		J2		J3		J4		J5	
FRAME HEIGHT (in)	TRIBUTARY 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.
132	8	100	100	70	70	100	100	70	80
	12	100	100	70	70	100	100	70	80
	16	100	100	70	70	100	100	70	80
	20	100	100	70	70	100	100	70	80
	25-1/2	100	100	70	70	100	100	70	80
	31-1/2	100	100	-	-	100	100	70	80
	38	-	-	-	-	-	-	70	80
	44	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-
	56	-	-	-	-	-	-	-	-
138	8	100	100	70	70	100	100	70	80
	12	100	100	70	70	100	100	70	80
	16	100	100	70	70	100	100	70	80
	20	100	100	70	70	100	100	70	80
	25-1/2	100	100	70	70	100	100	70	80
	31-1/2	100	100	-	-	100	100	70	80
	38	-	-	-	-	-	-	70	80
	44	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-
	56	-	-	-	-	-	-	-	-
144	8	100	100	70	70	100	100	70	80
	12	100	100	70	70	100	100	70	80
	16	100	100	70	70	100	100	70	80
	20	100	100	70	70	100	100	70	80
	25-1/2	100	100	70	70	100	100	70	80
	31-1/2	100	100	-	-	100	100	70	80
	38	-	-	-	-	-	-	70	80
	44	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-
	56	-	-	-	-	-	-	-	-
150	8	100	100	-	-	100	100	70	80
	12	100	100	-	-	100	100	70	80
	16	100	100	-	-	100	100	70	80
	20	100	100	-	-	100	100	70	80
	25-1/2	100*	100*	-	-	100*	100*	70	80
	31-1/2	100*	100*	-	-	100*	100*	70*	80*
	38	-	-	-	-	-	-	70*	80*
	44	-	-	-	-	-	-	-	-
	50	-	-	-	-	-	-	-	-
	56	-	-	-	-	-	-	-	-



* MULLION/JAMB SHALL BE IN INSTALLED
WITH A MINIMUM OF 1 HORIZONTAL FOR
LATERAL BRACING PURPOSES.

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PE# 0046549 CA# 9885

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TWIN SPAN MULLION DETERMINATION LOAD

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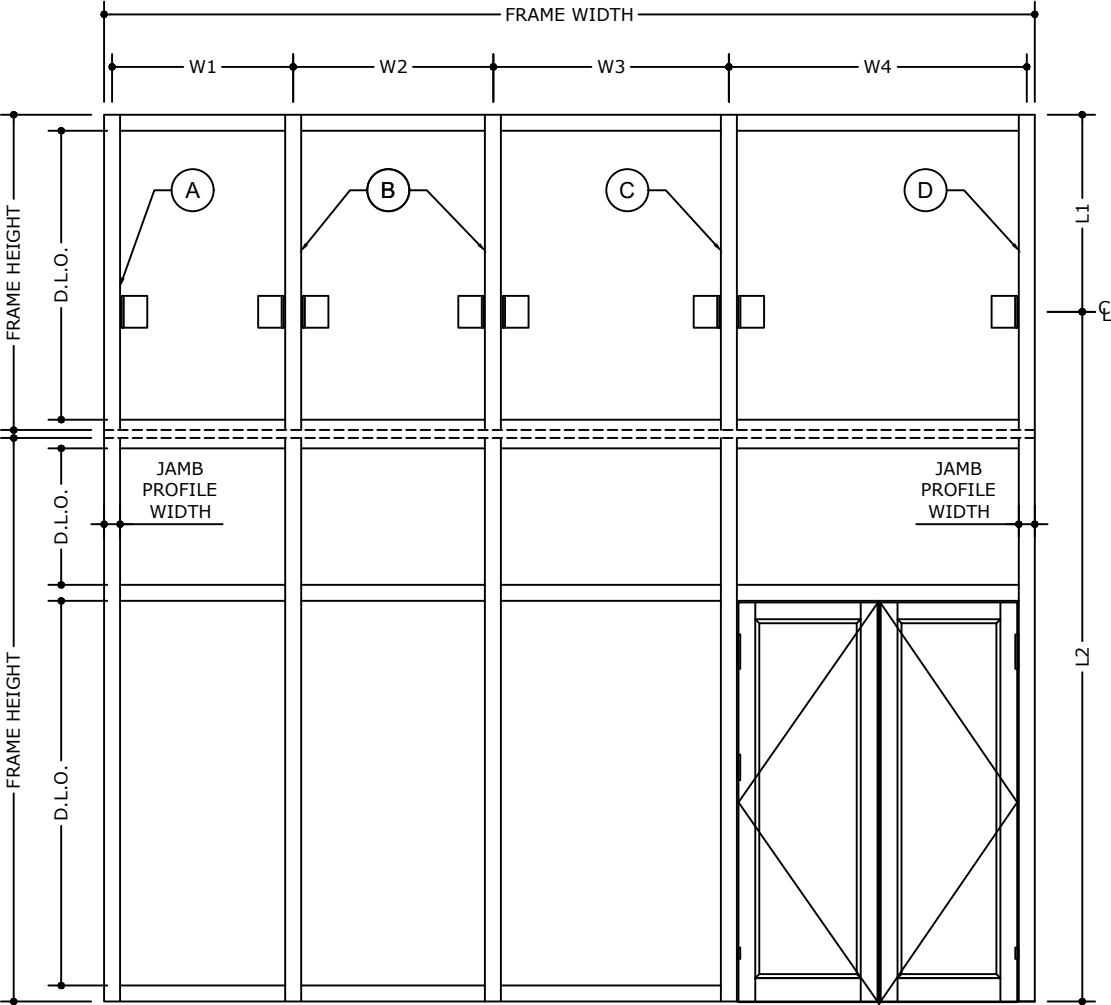
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SPAN (L) = LARGER OF L1 OR L2

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)

- A

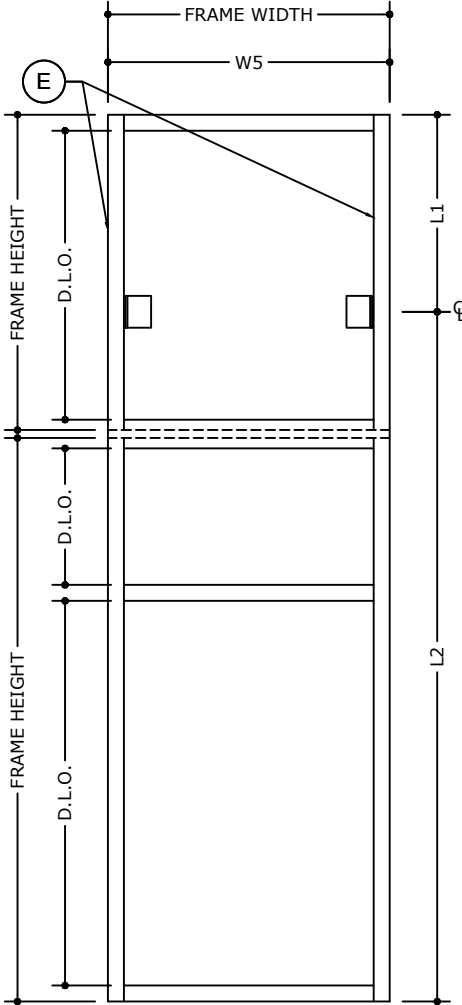
E

 JAMB MULLION
- B

 STANDARD MULLION
- C

 DOOR JAMB INTERMEDIATE MULLION
- D

 DOOR JAMB MULLION



LOAD DETERMINATION

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

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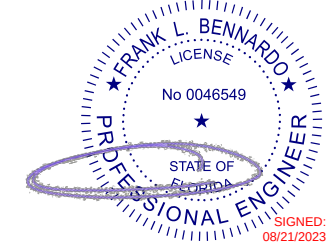
14

OF 42

Reliance™ StormMax® TWIN SPAN JAMBS (WITH & WITHOUT SPLICE)

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PE# 0046549 CA# 9885

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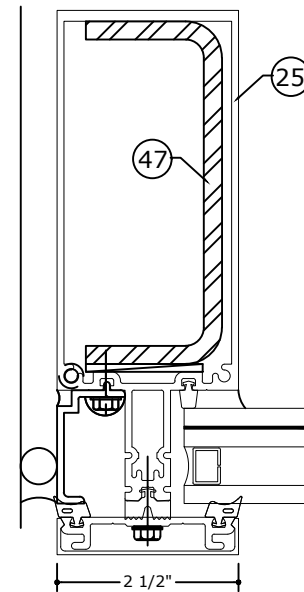
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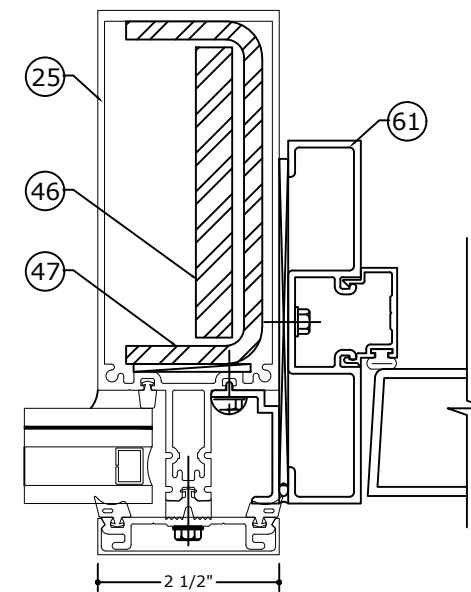


TJ1

$$\begin{aligned} I_x &= 29.375 \text{ in}^4 \\ S_x &= 7.31 \text{ in}^3 \end{aligned}$$

IN TERMS OF
ALUMINUM

REF. DETAIL 5 ON 32



TDJ1

$$\begin{aligned} I_x &= 33.207 \text{ in}^4 \\ S_x &= 7.602 \text{ in}^3 \end{aligned}$$

IN TERMS OF
ALUMINUM

REF. DETAIL 8.1 ON 33

NOTE:
REFER TO PAGE 17 & 18 FOR
LENGTH OF REINFORCEMENT
(PART 46 & 47)

NOTE:
REINFORCEMENT MEMBERS
MUST BE SHIMMED TIGHT.

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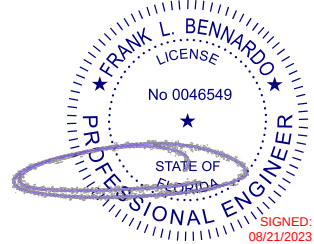
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16 OF 42

OPTIONS FOR JAMB, CORNER AND STANDARD MULLIONS INSTALLATION FOR
TWIN SPAN CURTAIN WALL SYSTEM WITH SPLICED MULLIONS

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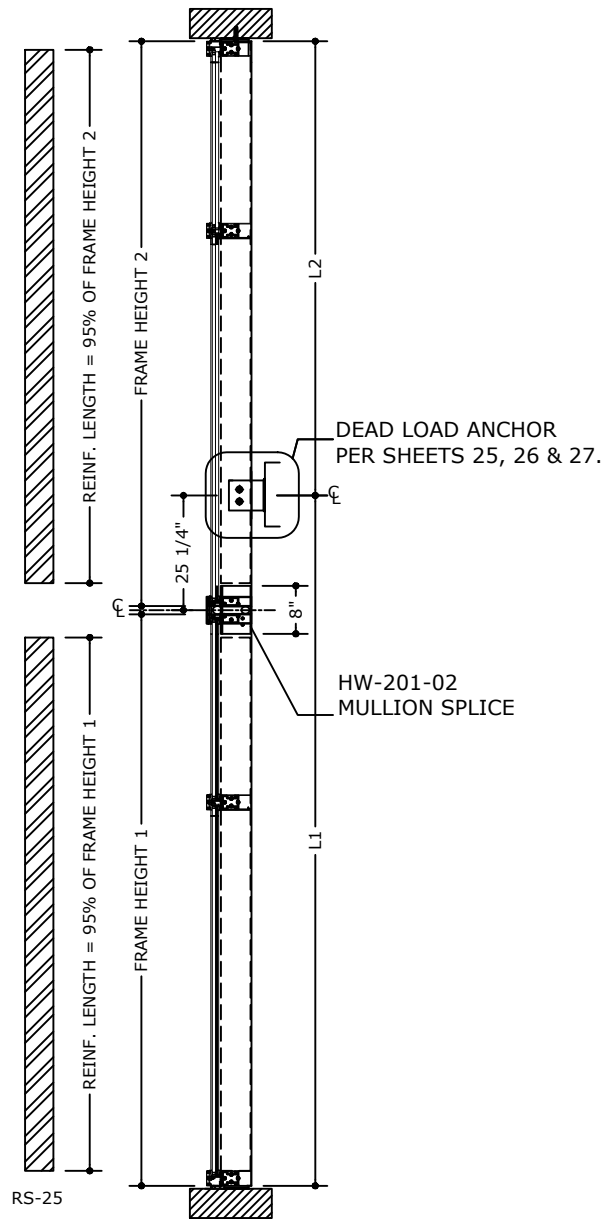
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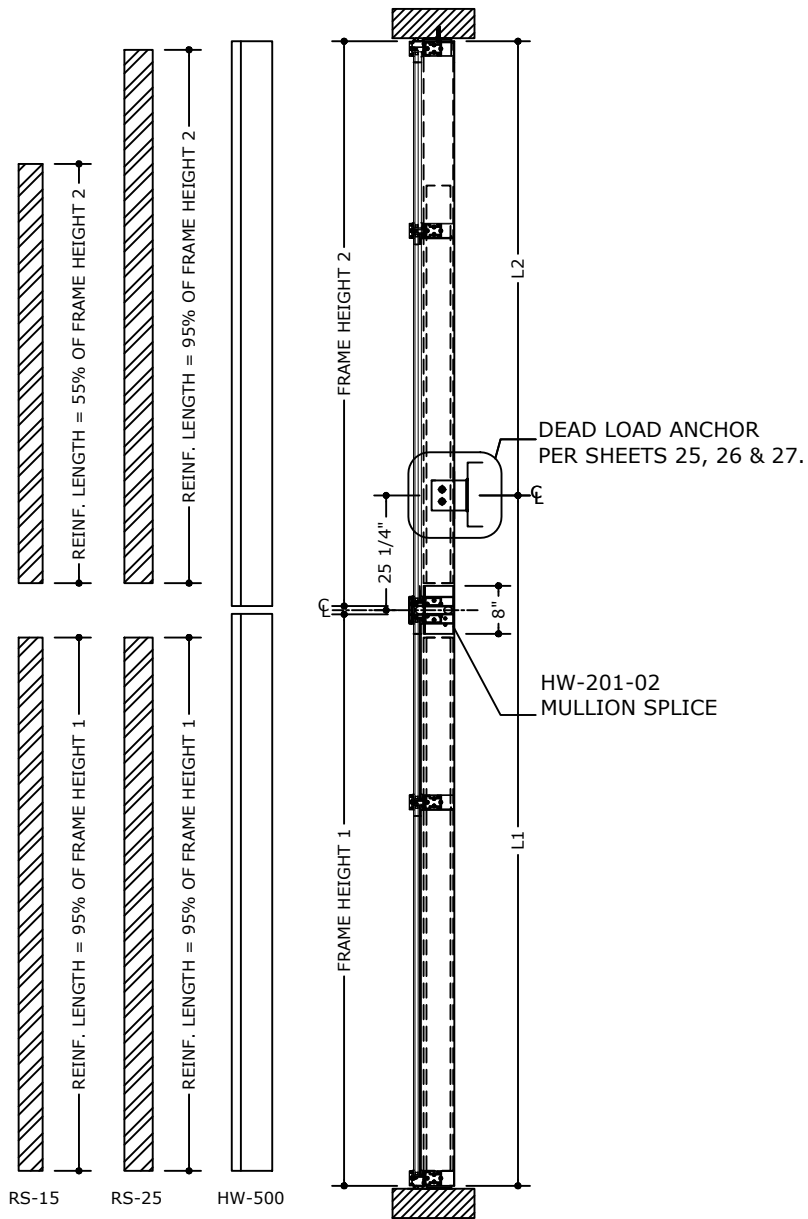
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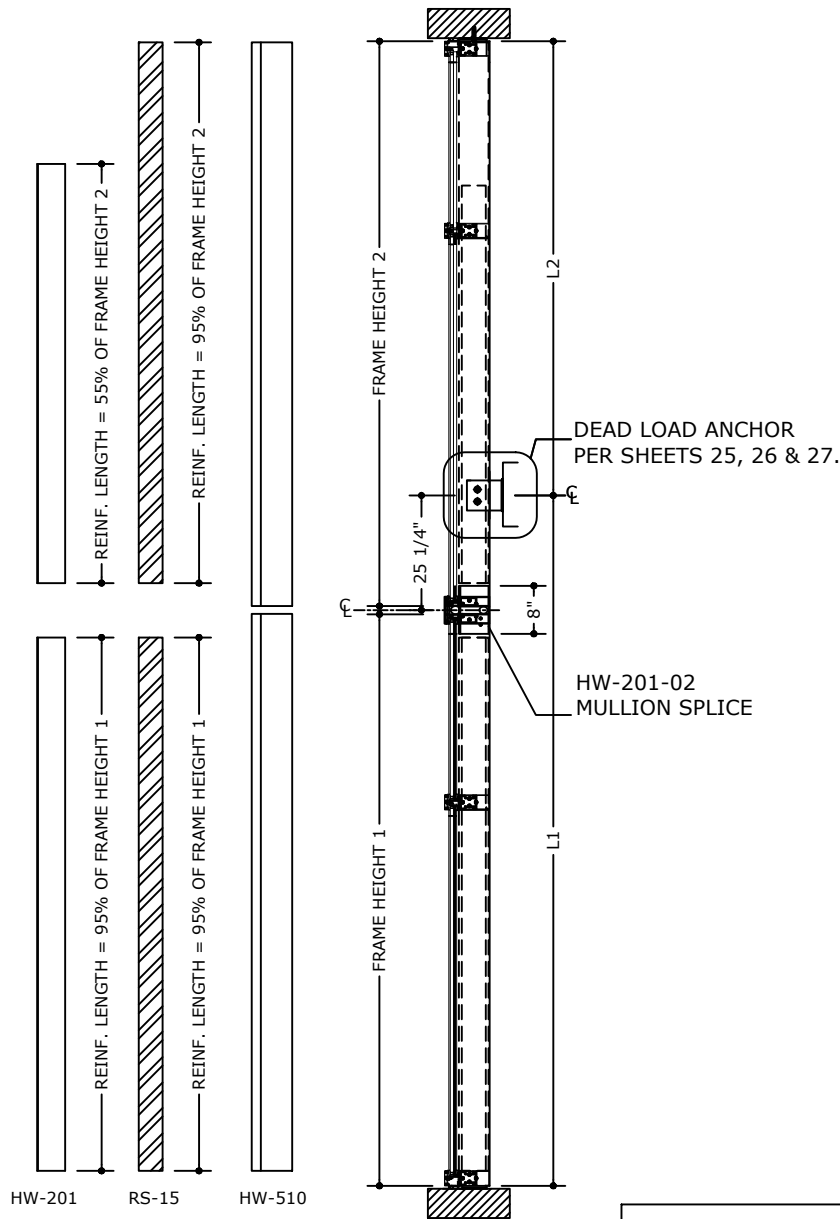


HW-500 AT JAMB MULLION
HW-240 AT CORNER MULLION

SIDE VIEW FOR: TJ1 TCM1



SIDE VIEW FOR: TM1 TDJ1



SIDE VIEW FOR: TM2

NOTE: REFER TO 4/31
AND 4.1/31 FOR
REINFORCEMENT
LOCATION

NOTE: CONTINUOUS
REINFORCEMENT AS
SHOWN

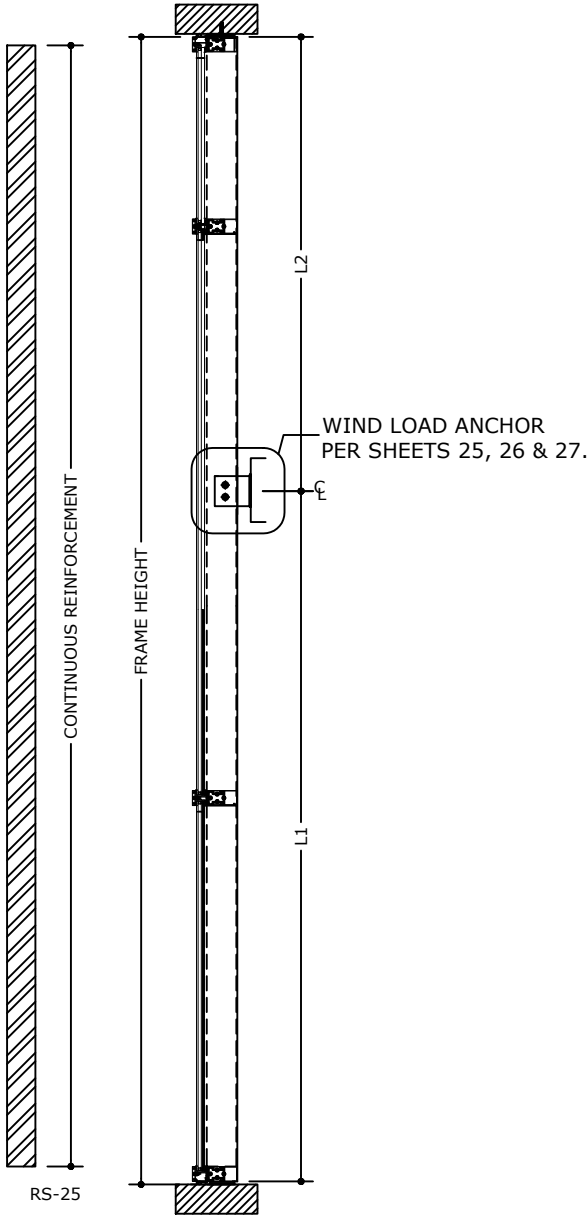
NOTE:
L1+ L2 SHALL NOT
EXCEED 325" IN LENGTH

OPTIONS FOR JAMB, CORNER AND STANDARD MULLIONS INSTALLATION FOR
TWIN SPAN CURTAIN WALL SYSTEM WITH CONTINUOUS (NON-SPLICED) MULLIONS

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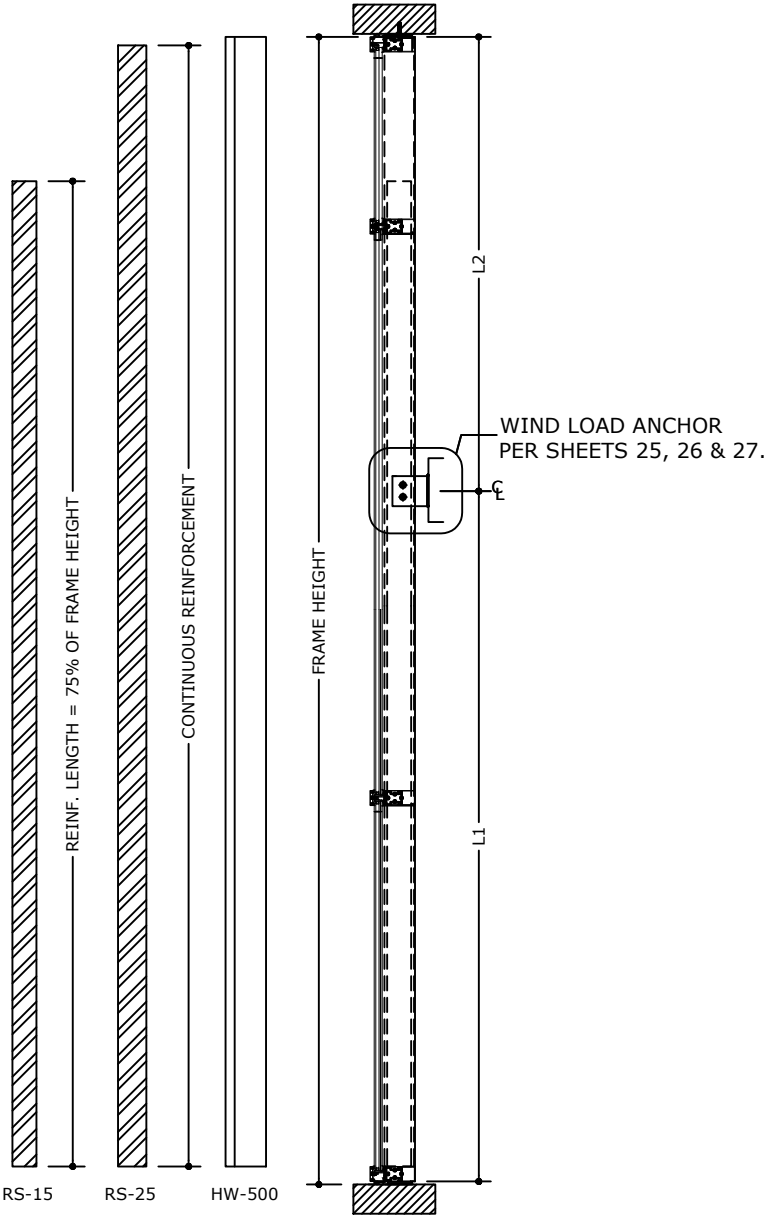
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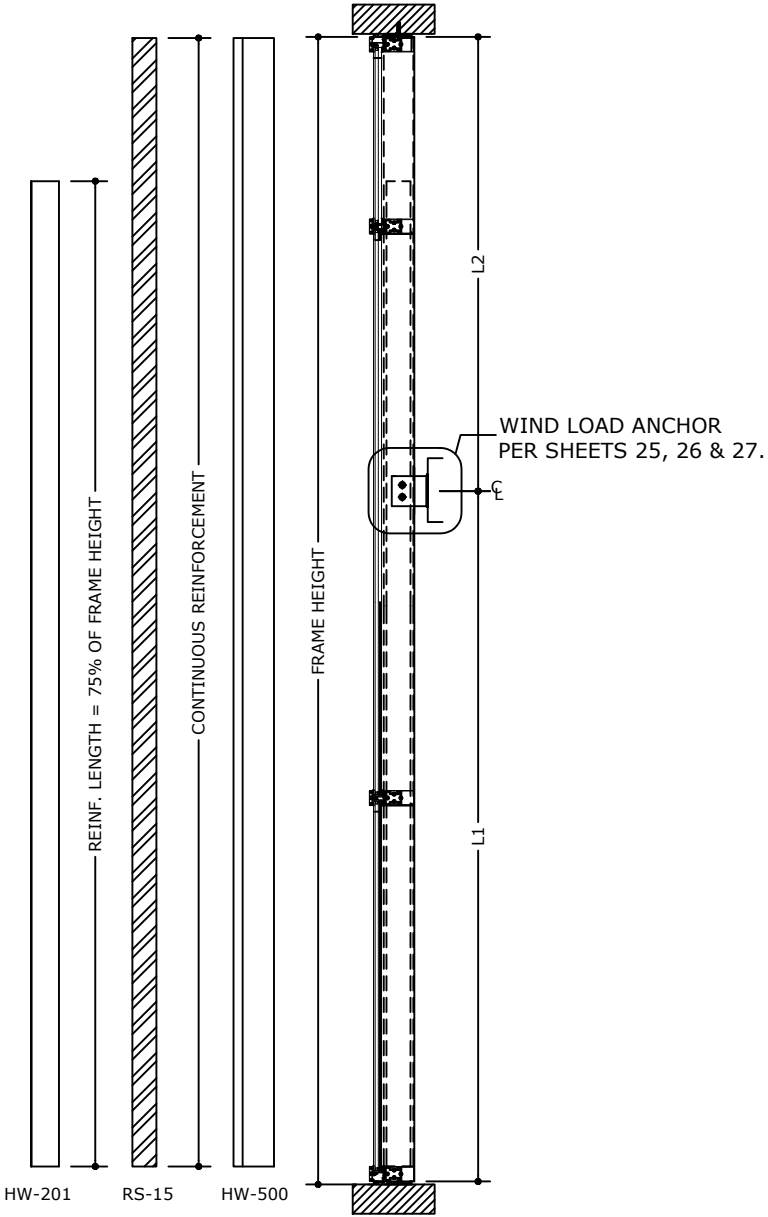


HW-500 AT JAMB MULLION
HW-240 AT CORNER MULLION

SIDE VIEW FOR: TJ1 TCM1



SIDE VIEW FOR: TM1 TDJ1



SIDE VIEW FOR: TM2

NOTE: CONTINUOUS REINFORCEMENT AS SHOWN

NOTE: L1+ L2 SHALL NOT EXCEED 325" IN LENGTH

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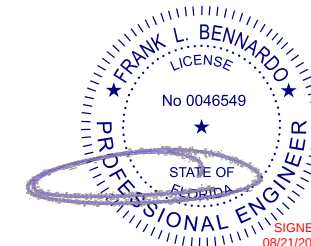
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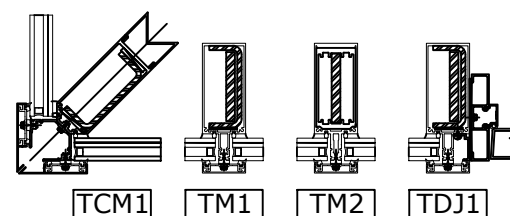
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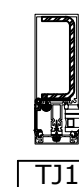
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MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD JAMBS
TWIN SPAN WITH SLICED AND NON-SPLICED JAMBS

TWIN SPAN MULLION LOADING CHART		MULLION TYPE	
		TCM1 - TM1 - TM2 - TDJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
96	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
102	72	100	100
	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
108	66	100	100
	72	100	100
	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
114	60	100	100
	66	100	100
	72	100	100
	78	100	100



TWIN SPAN JAMB LOADING CHART		JAMB TYPE	
		TJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
96	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100	100
	31-1/2	100	100
	38	100	100
	44	100	100
	50	100	100
102	56	100	100
	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100	100
	31-1/2	100	100
	38	100	100
	44	100	100
108	50	100	100
	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100	100
	31-1/2	100	100
	38	100	100
	44	100	100
50	100	100	



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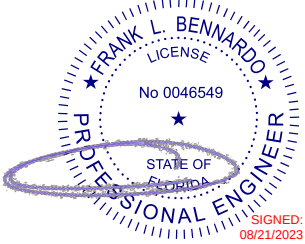
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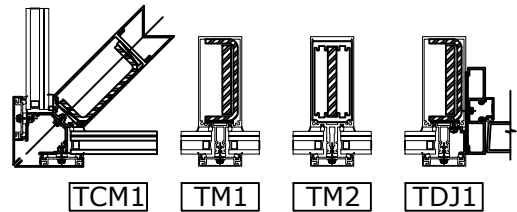


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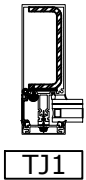
MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD MULLIONS
TWIN SPAN WITH SLICED AND NON-SPICED MULLIONS

TWIN SPAN MULLION LOADING CHART		MULLION TYPE	
		TCM1 - TM1 - TM2 - TDJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
114	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	100	100
	72	100	100
120	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	100	100
	72	100	100
126	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	100	100
	72	100	100



MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD JAMBS
TWIN SPAN WITH SLICED AND NON-SPICED JAMBS

TWIN SPAN JAMB LOADING CHART		JAMB TYPE	
		TJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
114	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100	100
	31-1/2	100	100
	38	100	100
	44	100	100
	44	100	100
	44	100	100
120	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100	100
	31-1/2	100	100
	38	100	100
	44	100	100
	44	100	100
	44	100	100
126	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100	100
	31-1/2	100	100
	38	100	100
	38	100	100
	38	100	100
	38	100	100



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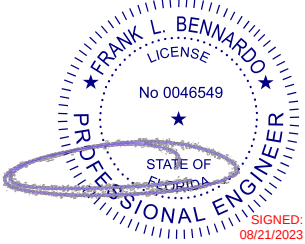
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c:\users\sam\engineering express\production - documents\projects\23-59835 multiple products 2023 fbc update fl 33108.2 - fbc 2023.dwg 8/21/2023 11:15 AM SAM

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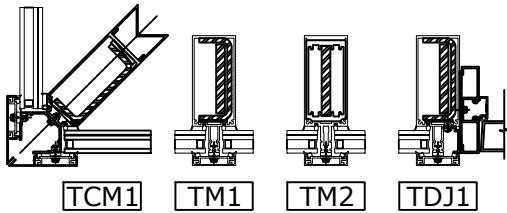


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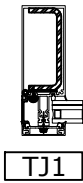
MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD MULLIONS
TWIN SPAN WITH SLICED AND NON-SPICED MULLIONS

TWIN SPAN MULLION LOADING CHART		MULLION TYPE	
		TCM1 - TM1 - TM2 - TDJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
132	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	100	100
138	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	100	100
144	24	100	100
	30	100	100
	36	100	100
	42	100	100
	48	100	100
	54	100	100
	60	100	100
	66	100	100
	72	100	100



MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR
STANDARD JAMBS
TWIN SPAN WITH SLICED AND NON-SPICED JAMBS

TWIN SPAN JAMB LOADING CHART		JAMB TYPE	
		TJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
132	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100	100
	31-1/2	100	100
	38	100	100
138	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100	100
	31-1/2	100	100
	38	100	100
144	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100	100
	31-1/2	100	100



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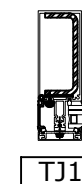
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21 OF 42



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TWIN SPAN JAMB LOADING CHART		JAMB TYPE	
		TJ1	
SPAN (L) (in)	TRIBUTARY WIDTH (in)	(+) P.S.F.	(-) P.S.F.
150	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100*	100*
	31-1/2	100*	100*
156	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100*	100*
	31-1/2	100*	100*
162	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100*	100*
	31-1/2	100*	100*
168	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100*	100*
	31-1/2	100*	100*
175-1/2	8	100	100
	12	100	100
	16	100	100
	20	100	100
	25-1/2	100*	100*
	31-1/4	100*	100*



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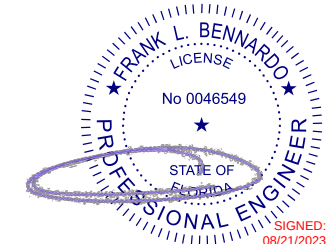
22 OF 42

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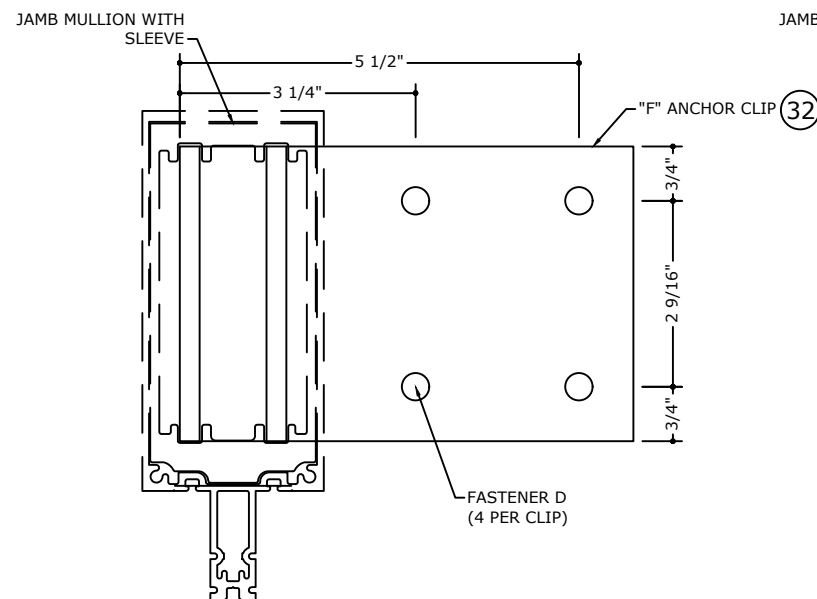
SINGLE & TWIN SPAN HEAD & SILL JAMB OR DOOR JAMB MULLION CONNECTIONS

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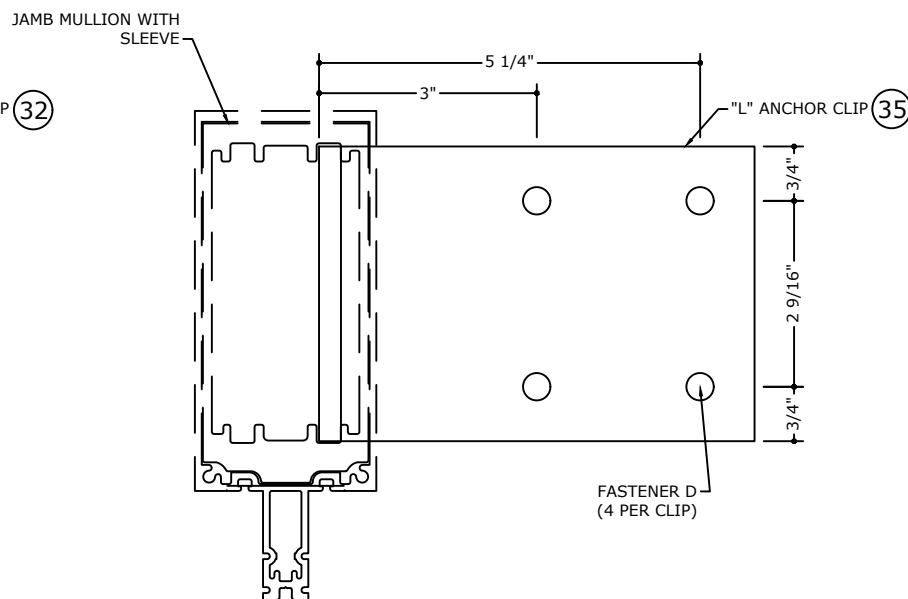
AUGUST 21, 2023



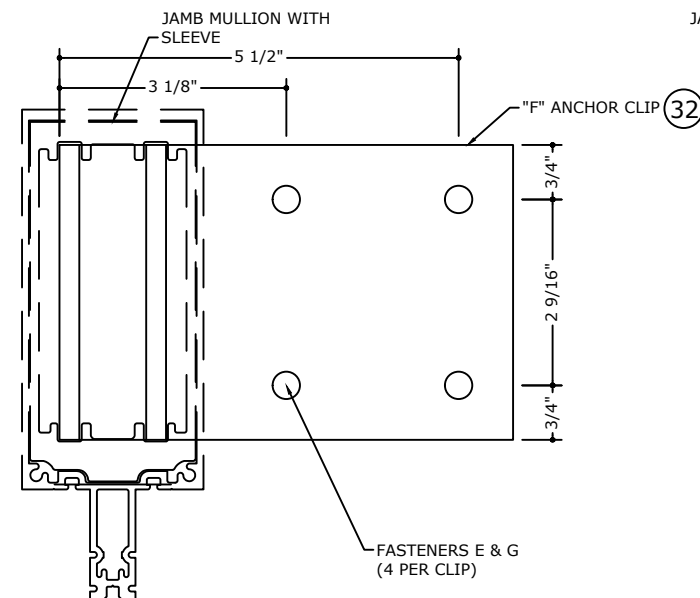
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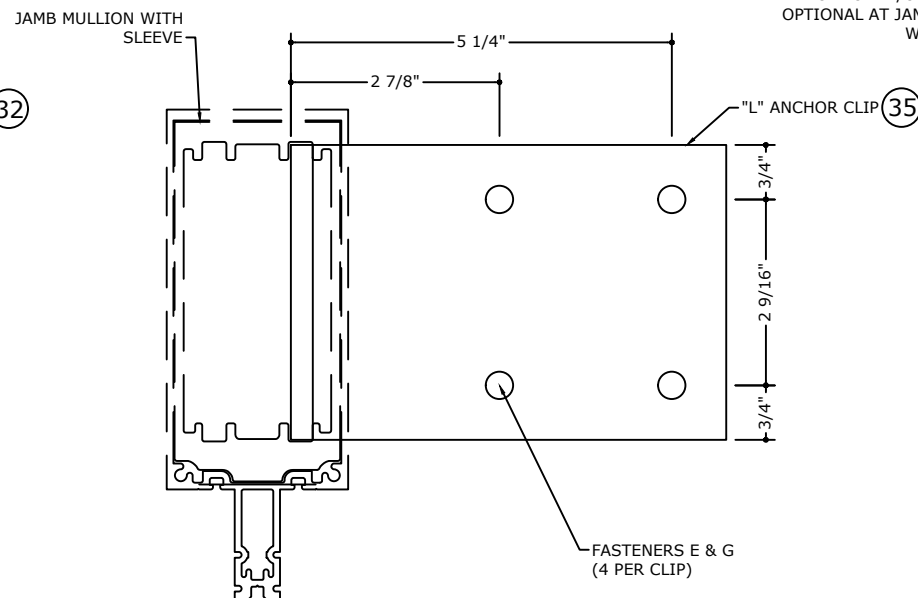
"F" ANCHOR/SLEEVE
CONNECTION DETAIL FOR
STEEL



"L" ANCHOR/SLEEVE
CONNECTION DETAIL FOR
STEEL

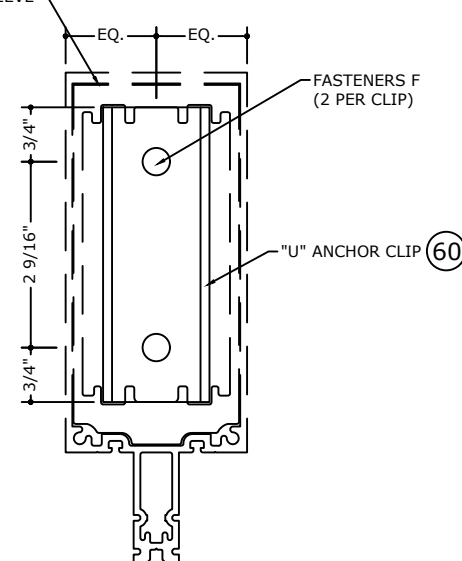


"F" ANCHOR/SLEEVE
CONNECTION DETAIL FOR
WOOD AND CONCRETE



"L" ANCHOR/SLEEVE
CONNECTION DETAIL FOR
WOOD AND CONCRETE

DOOR JAMB MULLION & JAMB
MULLION W/O SIDELITE &
OPTIONAL AT JAMB MULLION
WITH SLEEVE



"U" ANCHOR WITH SLEEVE
CONNECTION DETAIL FOR
CONCRETE

FASTENER TYPES

- D - 1/2" Ø -13 TYPE "F" GRADE 5 BOLT TO 1/4" MIN. THICK ASTM A-36 STEEL WITH 1" MIN. EDGE DISTANCE OR 1/2"Ø -13 SAE GALVANIZED STEEL GRADE 5 HHB THRU BOLT WITH NUT & LOCK WASHER TO 1/4" MIN. THICK ASTM A-36 STEEL WITH 1" MIN. EDGE DISTANCE. 100 P.S.F. MAX.*
- E - 3/8" Ø LAG SCREW WITH 3" MIN. EMBEDMENT INTO G=0.55" MIN. SPECIFIC GRAVITY WOOD SUBSTRATE WITH 1 1/2" MIN. EDGE DISTANCE. 70 P.S.F. MAX. REFER TO LOADING CHART ON SHEET 24
- F - 1/2" Ø DEWALT FASTENER SCREW-BOLT WITH 3 1/2" MIN. EMBEDMENT INTO 6" MIN. THICK POURED CONCRETE (f'c=3 ksi) BEYOND ANY FINISH MATERIAL AND 6" MIN. EDGE DISTANCE. 80 P.S.F. MAX.*
- G - 3/8" Ø DEWALT FASTENER SCREW-BOLT WITH 3 1/2" MIN. EMBEDMENT INTO 6" MIN. THICK POURED CONCRETE (f'c=3 ksi) BEYOND ANY FINISH MATERIAL AND 4 1/2" MIN. EDGE DISTANCE. 80 P.S.F. MAX.*

FASTENER "E" LOADING CHART		
MAX FRAME HEIGHT/SPAN(in)	MAX TRIBUTARY (in)	DESIGN PRESSURE A.S.D.
120" OR LESS	24"	70 PSF
84" OR LESS	36" OR LESS	70 PSF
78" OR LESS	48" OR LESS	60 PSF
78" OR LESS	60" OR LESS	50 PSF
90" OR LESS	72" OR LESS	40 PSF
120" OR LESS	84" OR LESS	20 PSF

*NOTE:
1. FOR SPANS LISTED ON MULLION/GLASS TABLES LIMITED TO MULLION/GLASS DESIGN PRESSURE.
2. INSTALLATION WITH "L" ANCHOR CLIPS ARE LIMITED TO 12' MULLION HEIGHT AND 4' MULLION TRIBUTARY.

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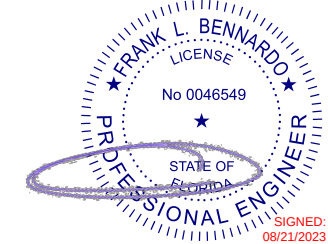
26 42

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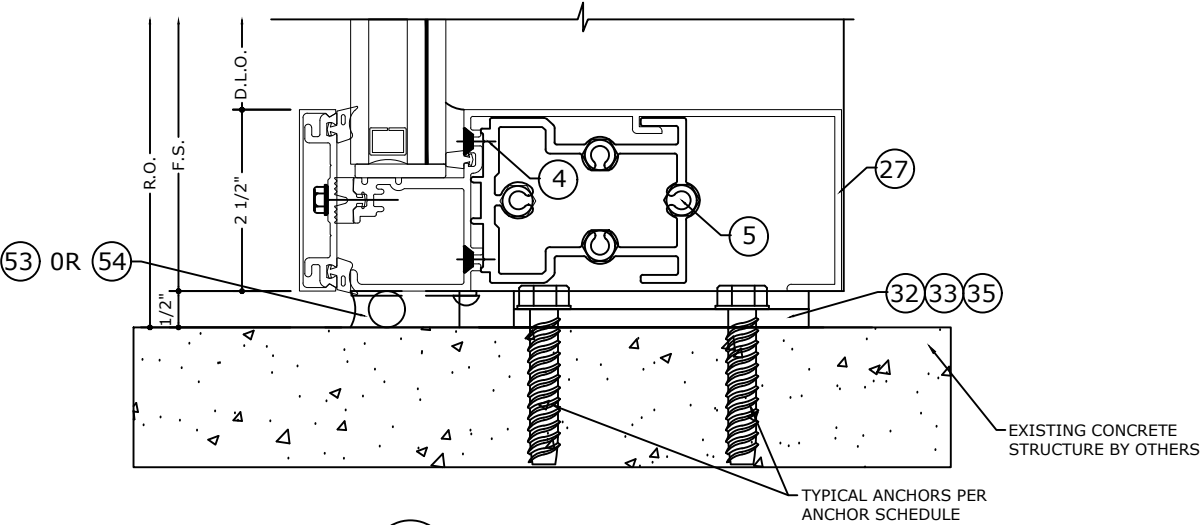
SILL CONNECTION DETAILS

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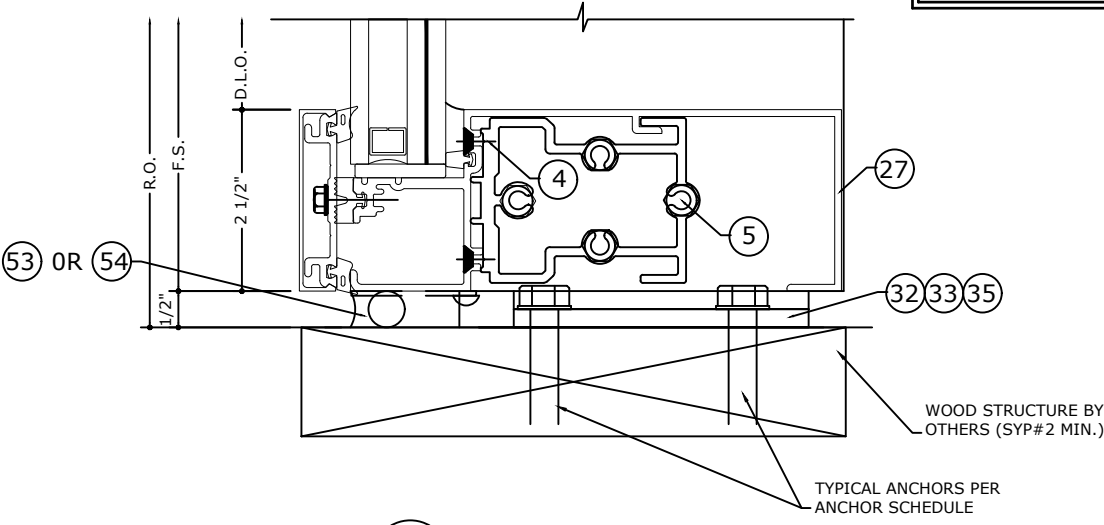
AUGUST 21, 2023



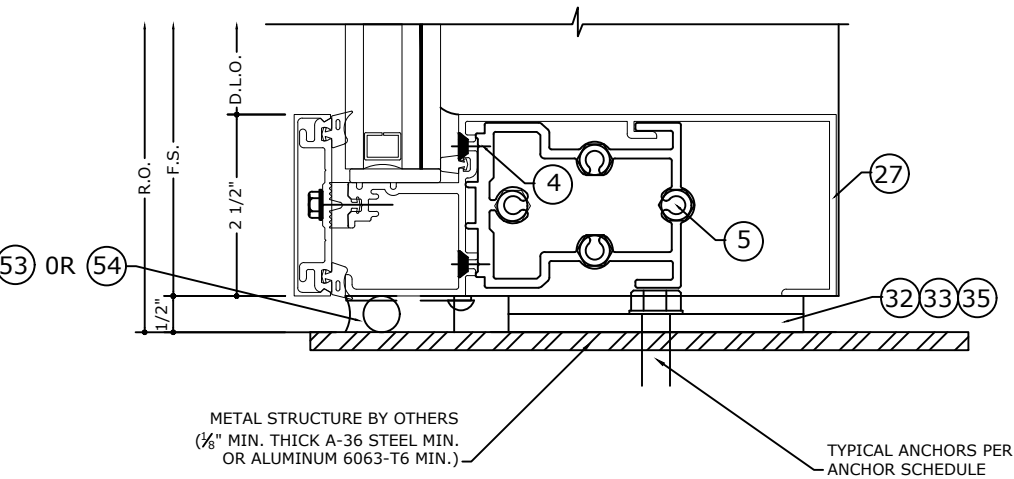
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2 SILL DETAIL



2.1 SILL DETAIL



2.2 SILL DETAIL

NOTE: REFER TO SYSTEM INSTALLATION MANUAL
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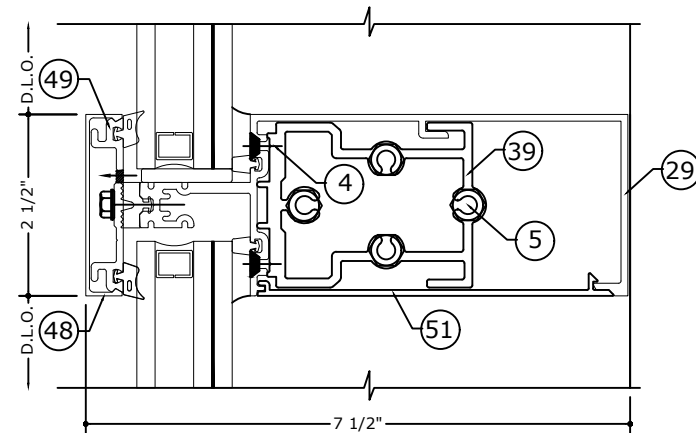
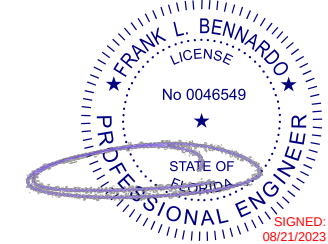
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HORIZONTAL CONNECTION DETAILS

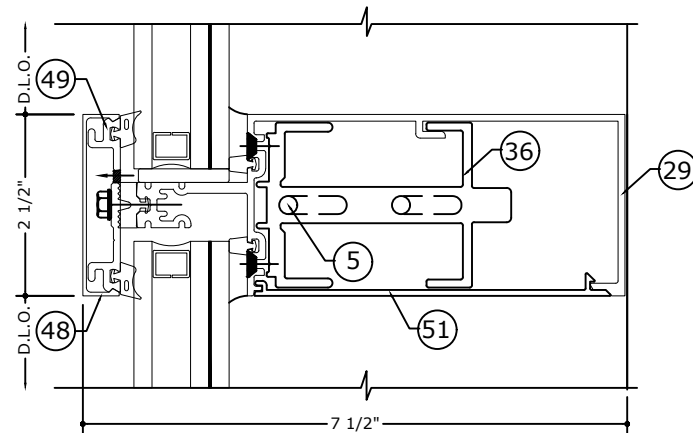
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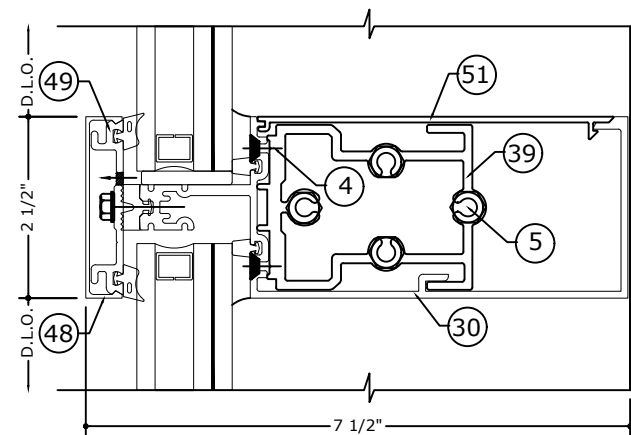
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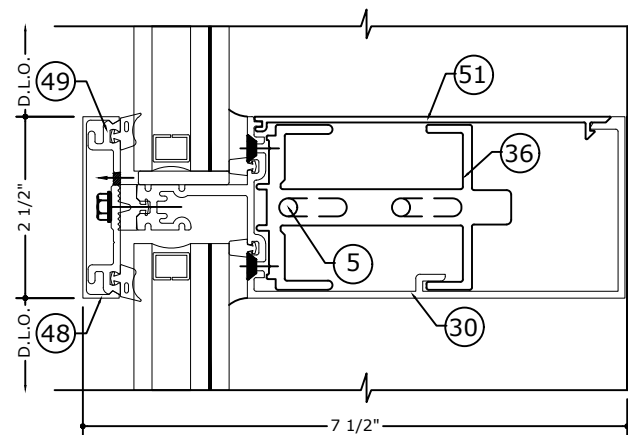
3 INTERMEDIATE
HORIZONTAL DETAIL (ROLL OVER)
SCALE: 6" = 1'-0"



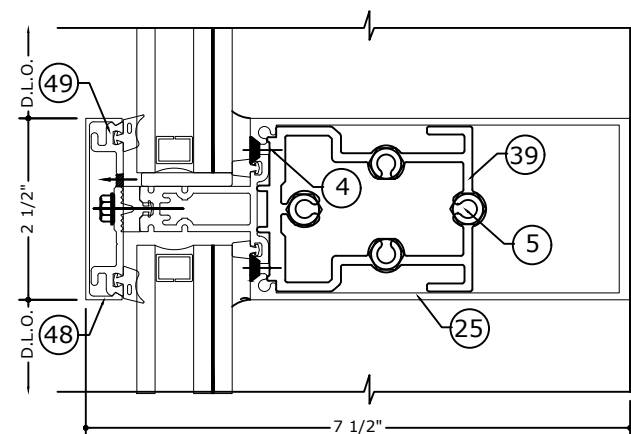
3.1 INTERMEDIATE HORIZONTAL
AT CORNER MULLION DETAIL (ROLL OVER)



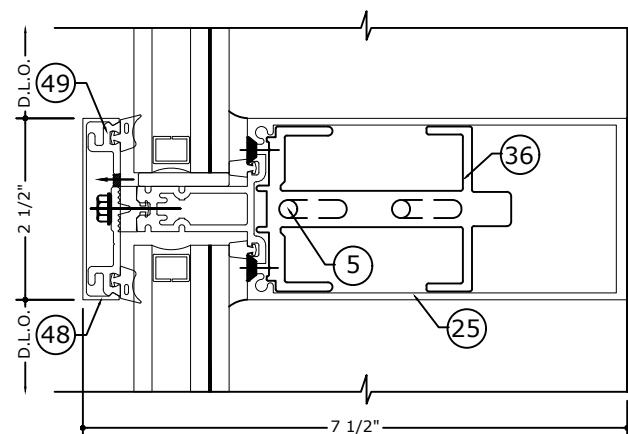
INTERMEDIATE
3.2 HORIZONTAL DETAIL (ROLL UNDER)
SCALE: 6" = 1'-0"



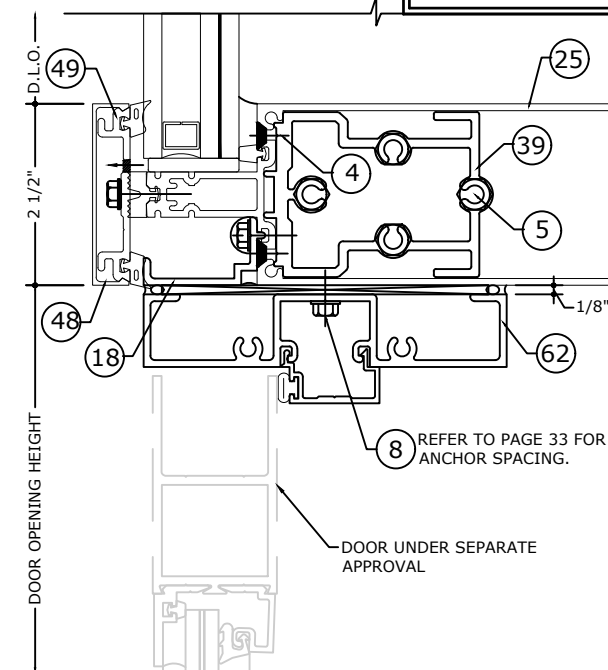
INTERMEDIATE HORIZONTAL
3.3 AT CORNER MULLION DETAIL (ROLL UNDER)
SCALE: 6" = 1'-0"



3.4 INTERMEDIATE HORIZONTAL DETAIL

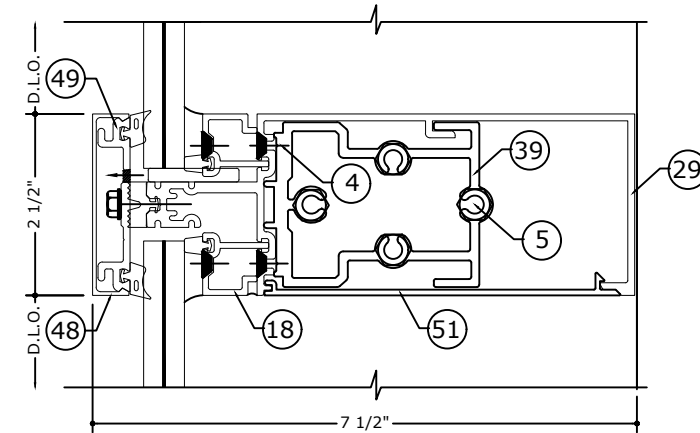


3.5 INTERMEDIATE HORIZONTAL AT CORNER MULLION DETAIL



3.6 DOOR HEADER DETAIL

SCALE: 6" = 1'-0"



3.7 ALTERNATE GLAZING DETAIL
FOR INTERMEDIATE HORIZONTAL
SCALE: 6" = 1'-0"

NOTE: REFER TO SYSTEM ELEVATION ON PAGE 02
FOR LENGTH LIMITATIONS ON HORIZONTAL
MULLIONS.

NOTE: REFER TO SYSTEM INSTALLATION MANUAL FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.

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EXPANSION HORIZONTAL CONNECTION DETAILS

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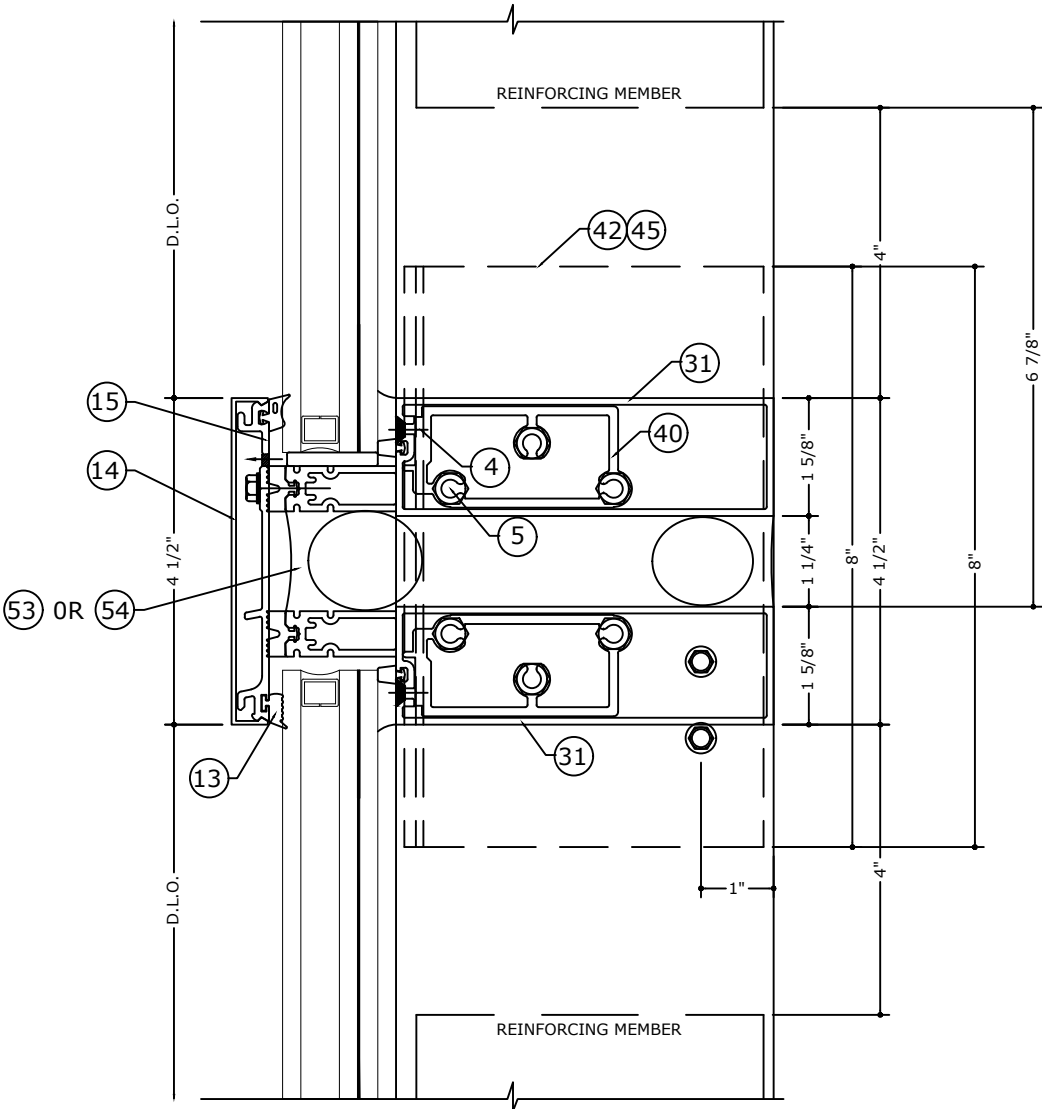
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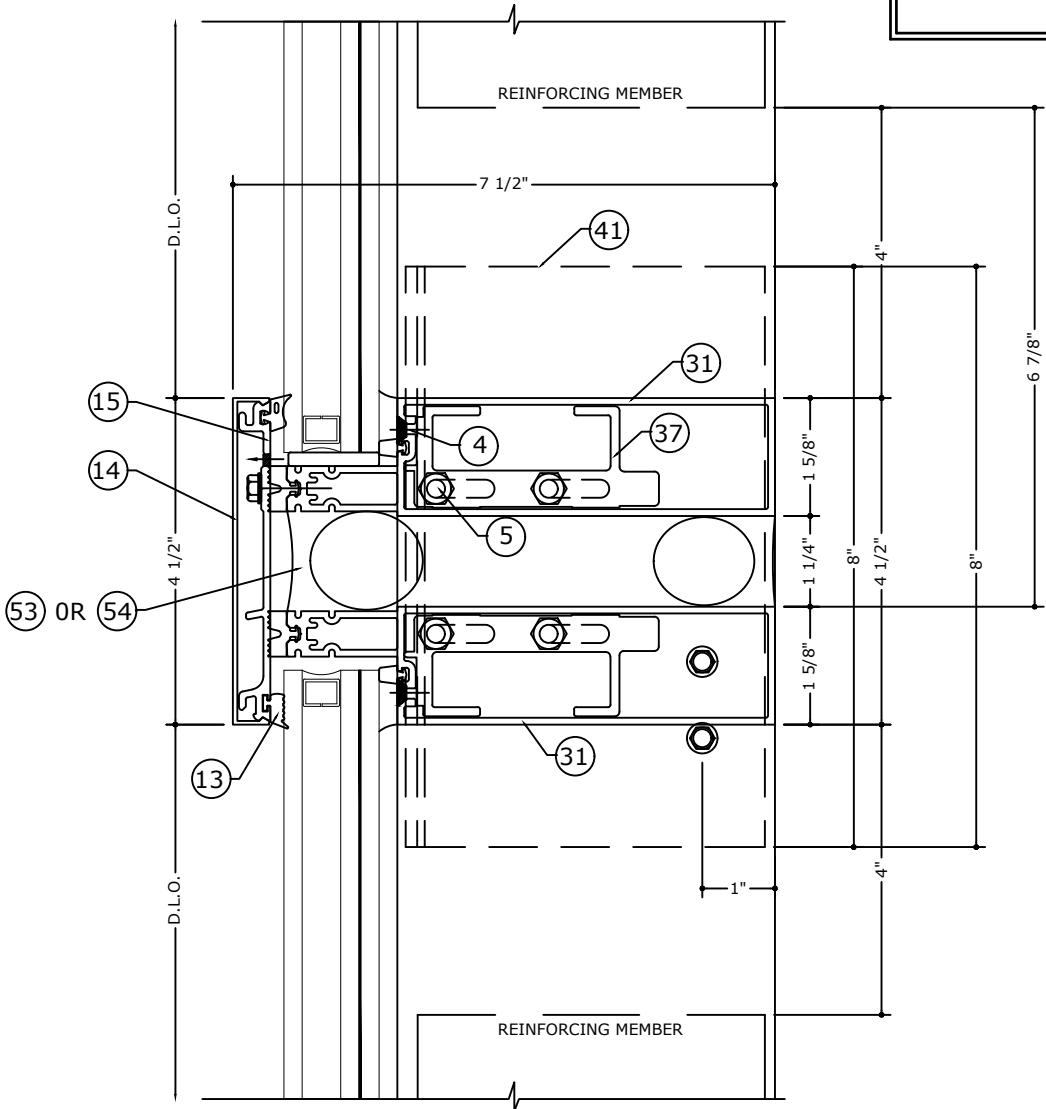
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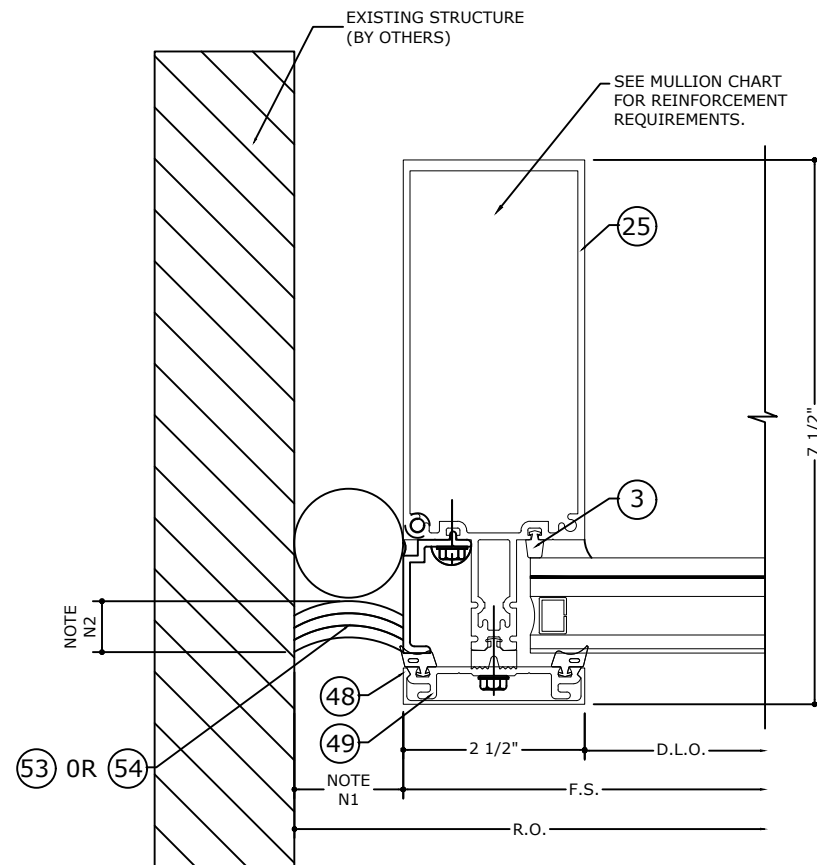
4 EXPANSION HORIZONTAL CONNECTION
DETAIL AT STANDARD OR JAMB MULLION
SCALE: 6" = 1'-0"



4.1 EXPANSION HORIZONTAL CONNECTION
DETAIL AT CORNER MULLION
SCALE: 6" = 1'-0"

NOTE: REFER TO SYSTEM ELEVATION ON PAGE 02
FOR LENGTH LIMITATIONS ON HORIZONTAL
MULLIONS.

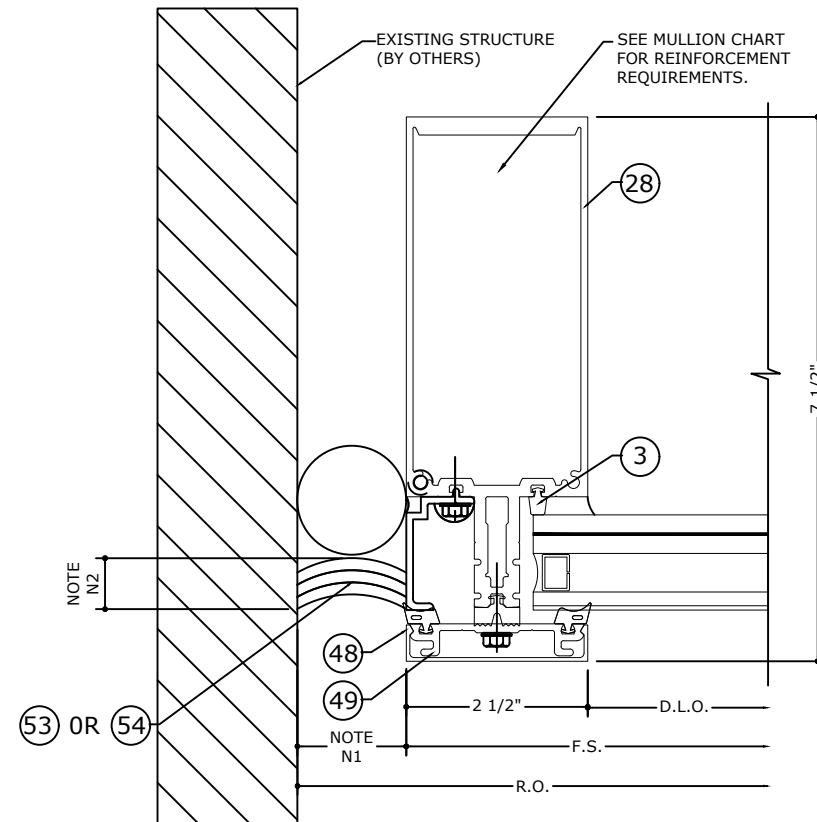
NOTE: REFER TO SYSTEM INSTALLATION MANUAL
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5 **STANDARD MULLION
JAMB DETAIL**

SCALE: 6" = 1'-0"

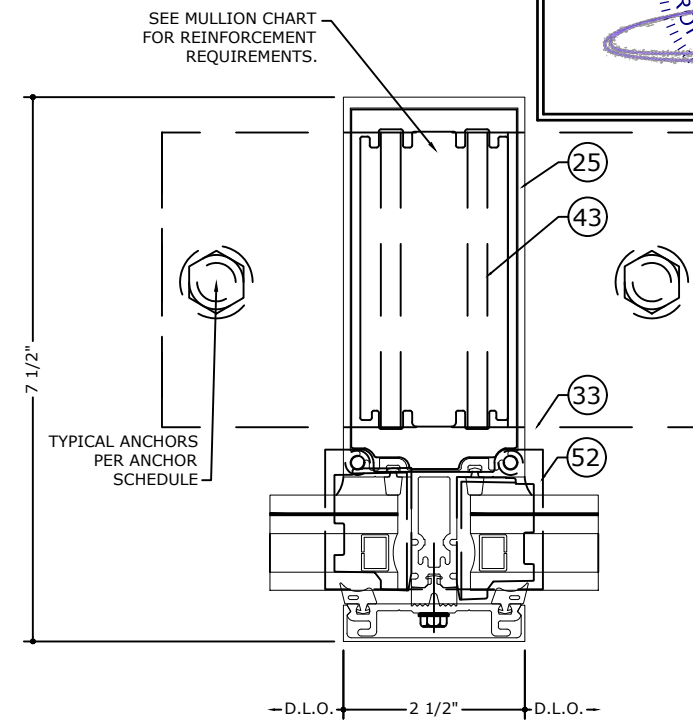
REFER TO J1, J3, J4 & J5 ON
PAGE 8 AND TJ1 ON PAGE 16
FOR STEEL REINFORCEMENT.



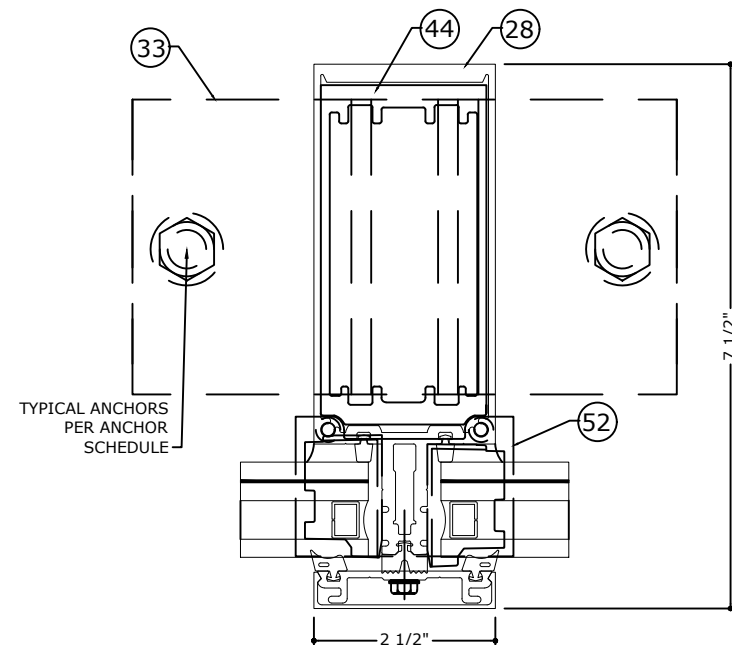
**5.1 HEAVY MULLION
JAMB DETAIL**

SCALE: 6" = 1'-0"

REFER TO J1, J3, J4 & J5 ON
PAGE 8 AND TJ1 ON PAGE 16
FOR STEEL REINFORCEMENT.



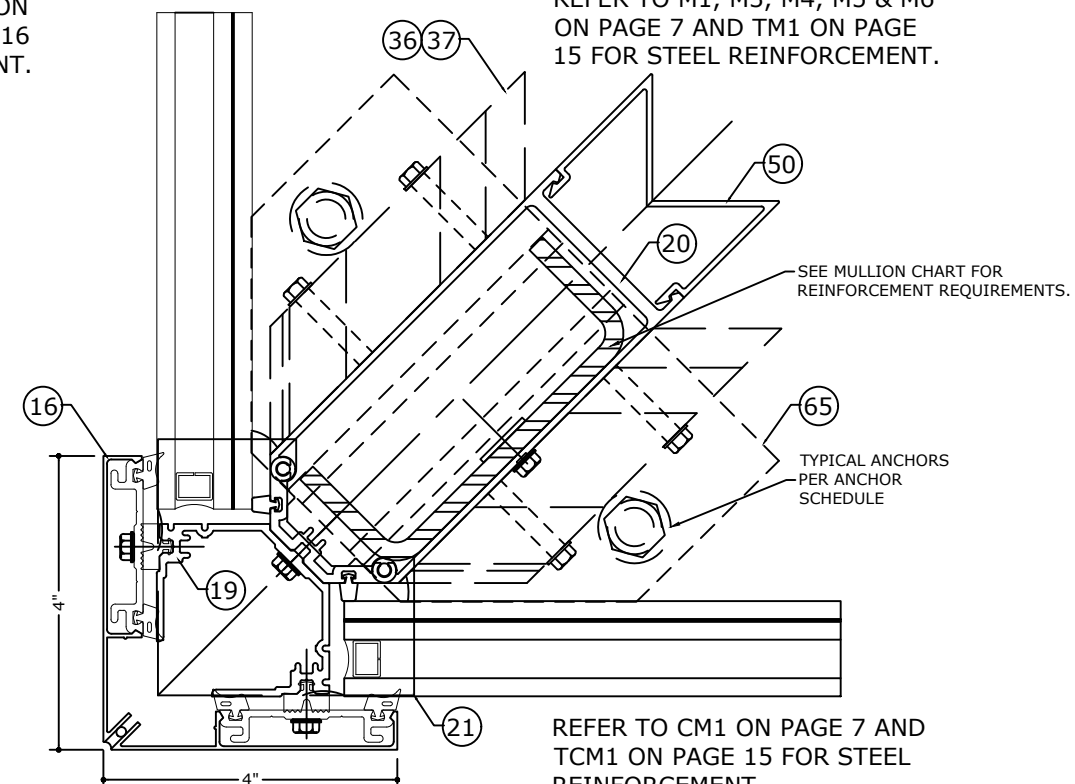
6 **STANDARD MULLION
VERTICAL DETAIL**
SCALE: 6" = 1'-0"
REFER TO M1, M3, M4, M5 & M6
ON PAGE 7 AND TM1 ON PAGE
15 FOR STEEL REINFORCEMENT.



6.1 HEAVY MULLION VERTICAL DETAIL

SCALE: 6" = 1'-0"

REFER TO M2 ON PAGE 7 AND TM2 ON PAGE 15 FOR STEEL REINFORCEMENT.



7 CORNER DETAIL
SCALE: 6" = 1'-0"

REFER TO CM1 ON PAGE 7 AND
TCM1 ON PAGE 15 FOR STEEL
REINFORCEMENT.

NOTE: REFER TO SYSTEM INSTALLATION MANUAL
FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.

SEALANT JOINT NOTES

N1: $\frac{5}{8}$ " MIN. & 1 $\frac{5}{8}$ " MAX. WIDE JOINT WITH SEALANT (53) OR (54).

N2: 1/4" MIN. & 3/8" MAX. DEPTH JOINT
WITH 1/4" DEPTH AT MIDWIDTH OF
JOINT WITH SEALANT (53) OR (54)

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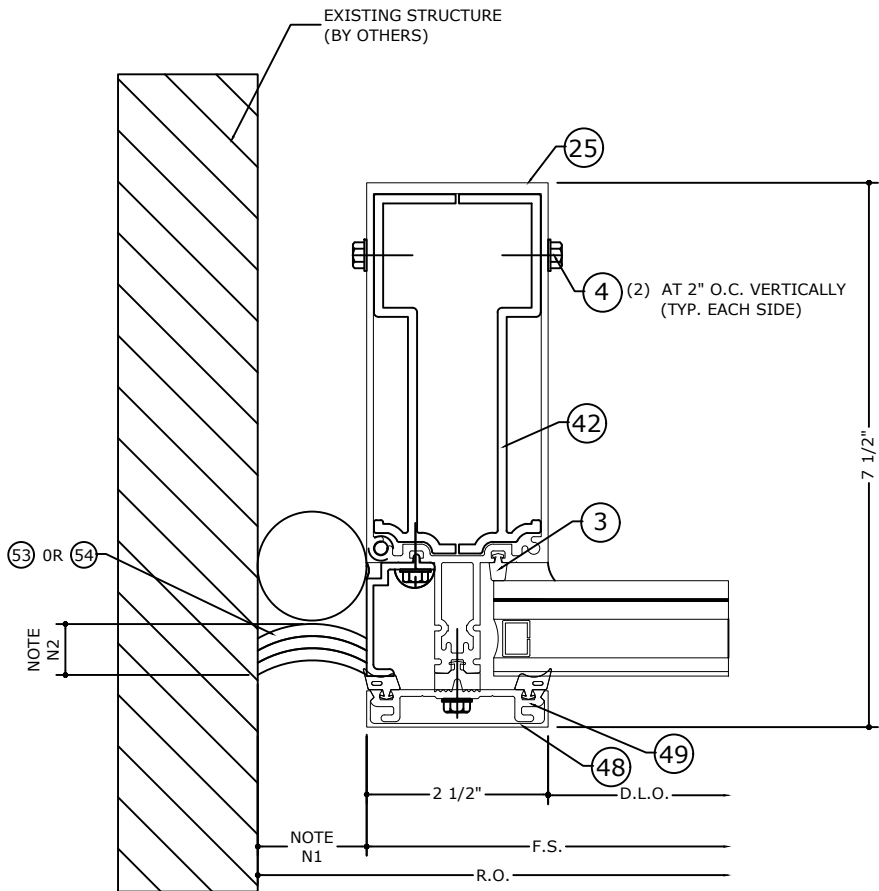
33 OF 42

JAMB AND STANDARD MULLION SPLICE DETAILS
AT TWIN SPAN (PLAN)

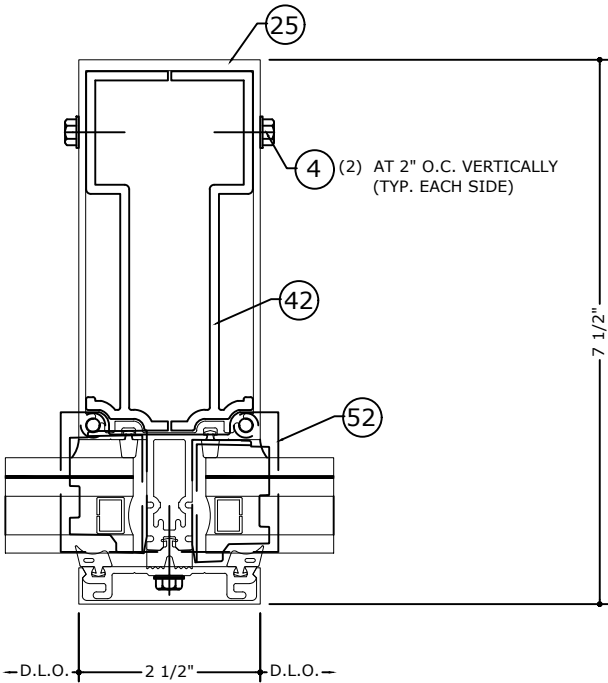
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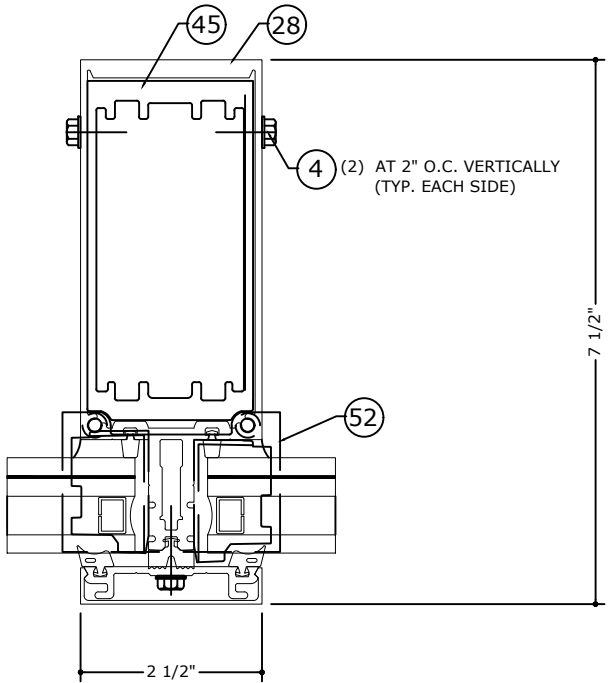
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JAMB MULLION SPLICE DETAIL
SCALE: 6" = 1'-0"



STANDARD MULLION SPLICE DETAIL
SCALE: 6" = 1'-0"



HEAVY MULLION SPLICE DETAIL
SCALE: 6" = 1'-0"

SEALANT JOINT NOTES

N1: 5/8" MIN. & 1 5/8" MAX. WIDE JOINT
WITH SEALANT 53 OR 54.

N2: 1/4" MIN. & 3/8" MAX. DEPTH JOINT
WITH 1/4" DEPTH AT MIDWIDTH OF
JOINT WITH SEALANT 53 OR 54.

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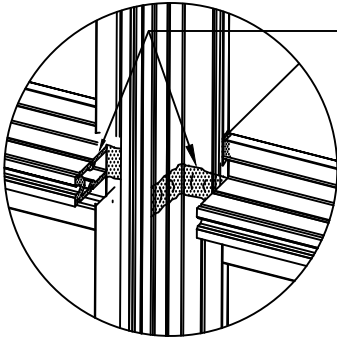
ZONE PLUG INSTALLATION

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

SIGNED:
08/21/2023

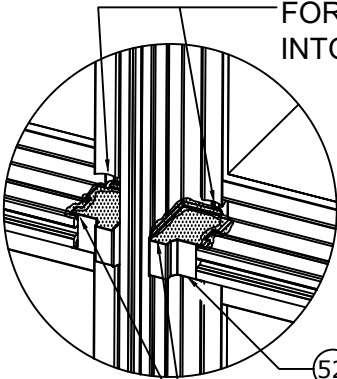
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STEP 1



SEAL ALONG TONGUE OF HORIZONTAL & ACROSS FACE AND TONGUE OF MULLION BEFORE INSTALLING (52) WW-352 ZONE PLUGS.

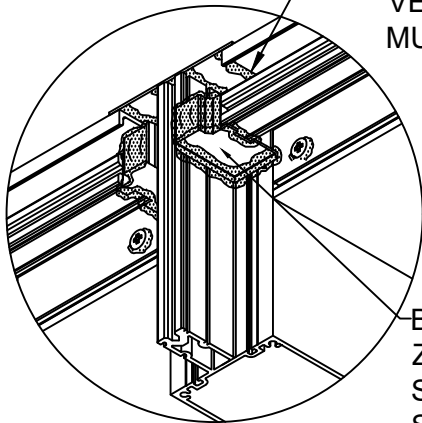
STEP 2



FORCE SEALANT INTO GASKET RACE

(52) WW-352 ZONE PLUG

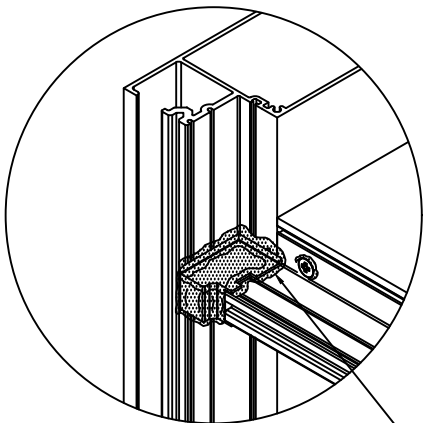
TOOL SEALANT ALONG TOP OF ZONE PLUG TO FORM A WATER TIGHT SEAL.



SEAL BETWEEN HEAD, VERTICAL MULLION AND MULLION CAP

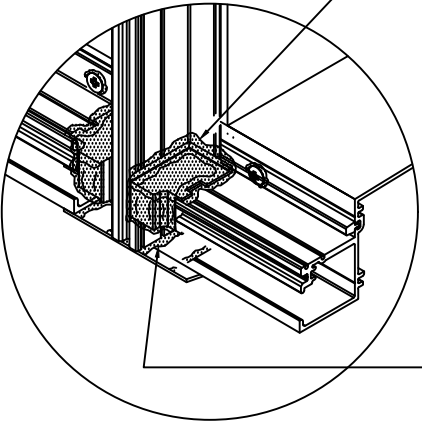
BOTTOM SIDE OF ZONE PLUG SHOWN. SEAL TOP SIDE SIMILAR.

ZONE PLUG AT HEAD



SEAL JAMB & SILL ZONE PLUGS SAME AS SHOWN AT LEFT

ZONE PLUG AT JAMB



SEAL JAMB & SILL ZONE PLUGS SAME AS SHOWN AT LEFT

SEAL BETWEEN SILL, VERTICAL & MULLION CAP

ZONE PLUG AT SILL

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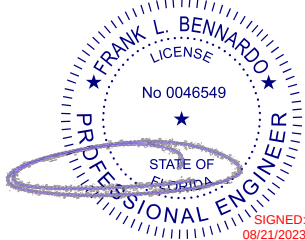
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2023 FBC UPDATE	SQ	RS	08/16/23

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PRESSURE PLATE AND FACE CAP INSTALLATION

FRANK BENNARDO, PE
PE# 0046549 CA# 9885



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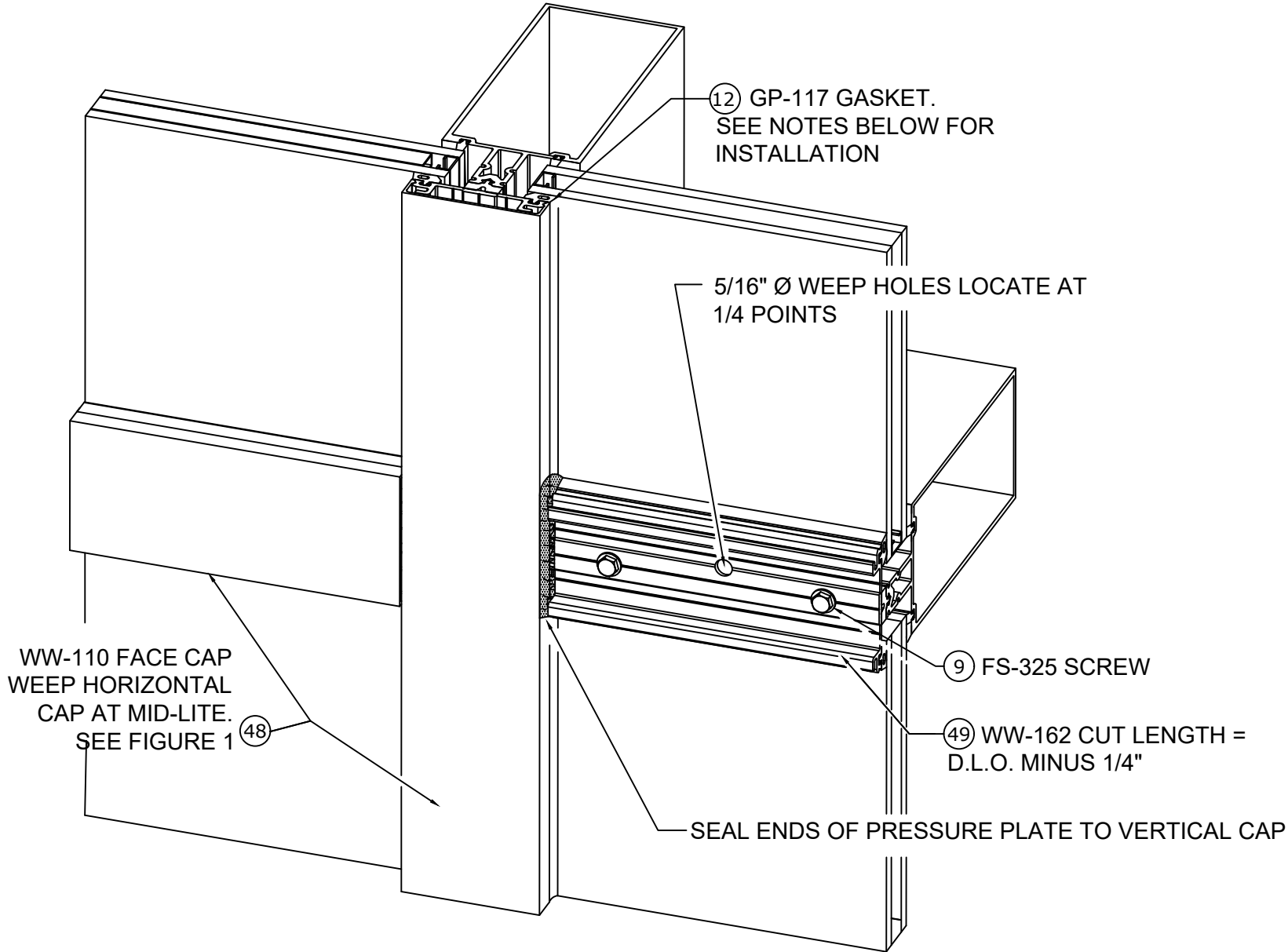
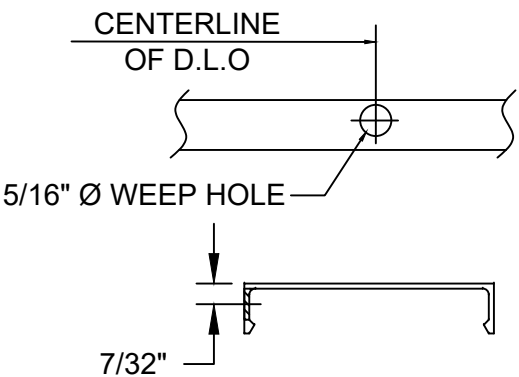


FIGURE 1
GLAZING INSTRUCTIONS
HORIZONTAL FACE CAP FABRICATION



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2023 FBC UPDATE	SQ	RS	08/16/23

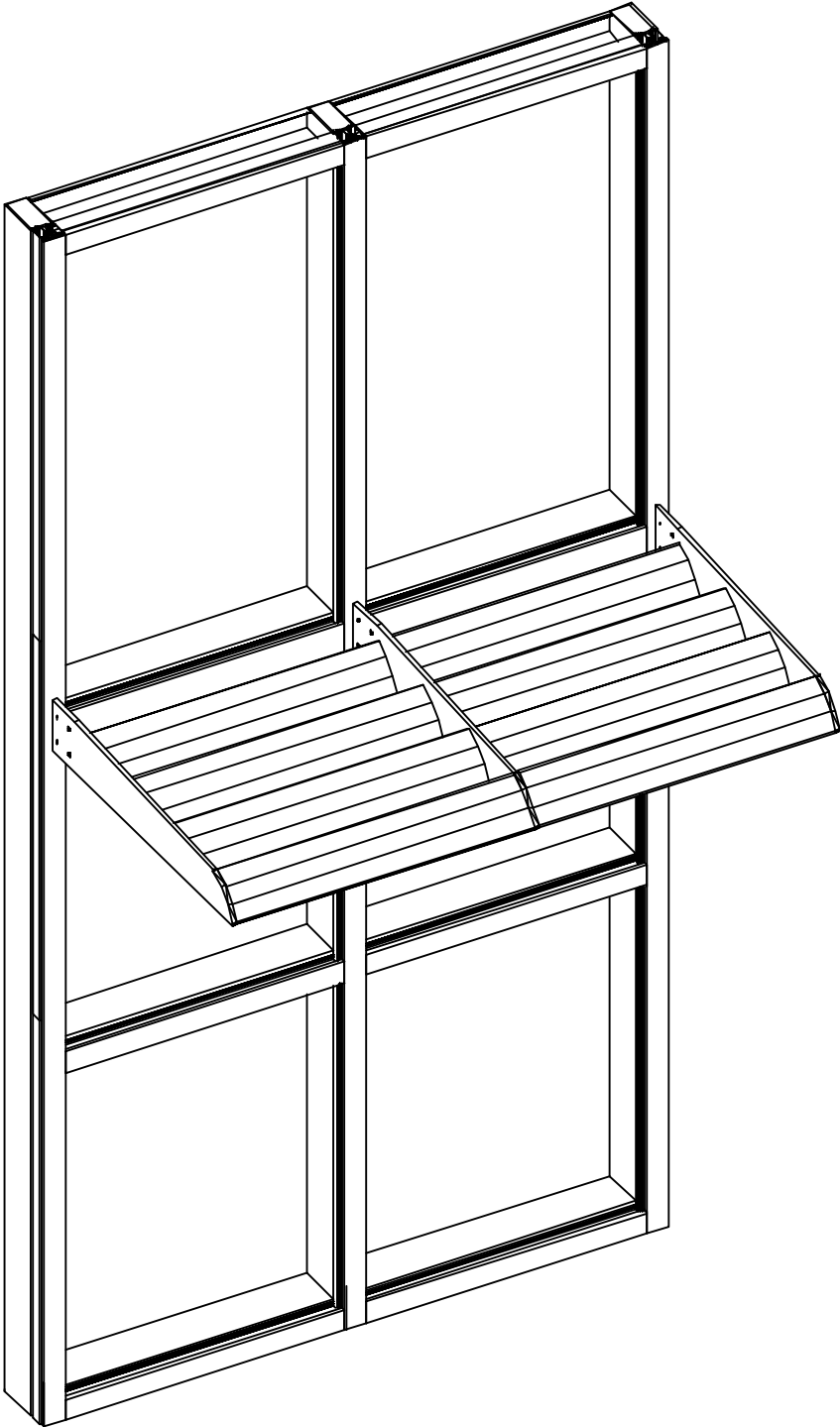
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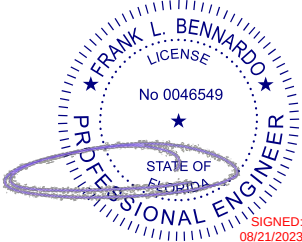
SUNSHADE OPTION



NOTE: OPTIONAL SUNSHADES IN NON-HVHZ
CONDITIONS CAN BE USED BASED ON SITE
SPECIFIC ENGINEERING.

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PE# 0046549 CA# 9885

AUGUST 21, 2023



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RelianceTM StormMax[®] CURTAIN WALL SYSTEM COMPONENTS

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PE# 0046549 CA# 9885

FL

FRANK L. BENNARDO

LICENSE

No 0046549

STATE OF FLORIDA

PROFESSIONAL ENGINEER

SIGNED: 08/21/2023

1 CW-2101
SETTING BLOCK
(L.M.)

2 CW-2102
SETTING BLOCK
(L.M. & S.M.)

3 FG-5185S GASKET
(L.M. & S.M.)

11 GP-107 ISOLATOR
(L.M. & S.M.)

12 GP-117 GASKET
(L.M. & S.M.)

13 GP-160 GASKET
(L.M. & S.M.)

63 GP-1015
INTERIOR GASKET
(L.M. & S.M.)

14 HW-100 FACE CAP
(L.M. & S.M.)

15 HW-102 PRESSURE PLATE
(L.M. & S.M.)

16 HW-115 FACE CAP
(L.M. & S.M.)

17 HW-122 FILLER
(L.M. & S.M.)

18 HW-130 GLAZING ADAPTOR
(L.M.)

19 HW-132 CORNER
PRESSURE PLATE
(L.M. & S.M.)

20 HW-240 CORNER MULLION
(L.M. & S.M.)

21 HW-312 CORNER BRIDGE
(L.M. & S.M.)

22 HW-323 CORNER MULL
CAP (L.M. & S.M.)

23 HW-325 MULL CAP
(L.M. & S.M.)

24 HW-338 JAMB CAP
(L.M. & S.M.)

25 HW-500 MULLION
(L.M. & S.M.)

26 HW-501 HEAD
(L.M. & S.M.)

27 HW-502 SILL
(L.M. & S.M.)

28 HW-510 HEAVY MULLION
(L.M. & S.M.)

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RelianceTM StormMax[®] CURTAIN WALL SYSTEM COMPONENTS

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

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FRANK L. BENNARDO

LICENSE

No 0046549

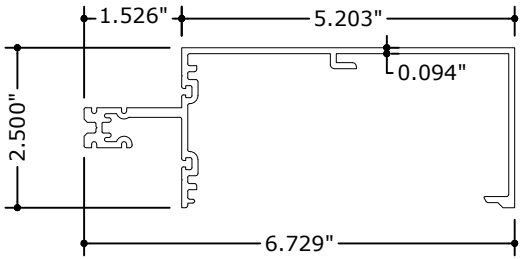
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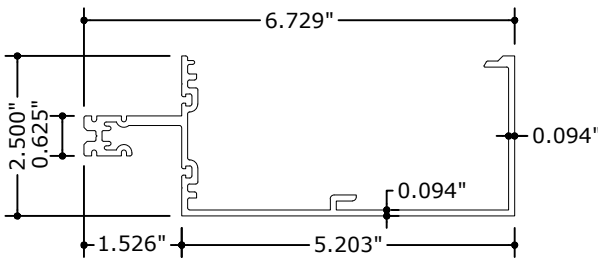
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AUGUST 21, 2023

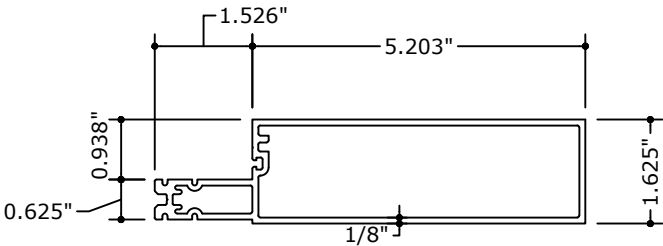
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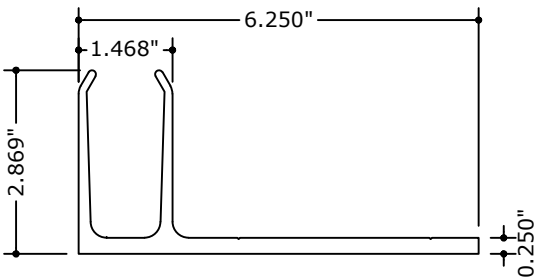
29 HW-532 ROLL OVER HORIZ.
(L.M. & S.M.)



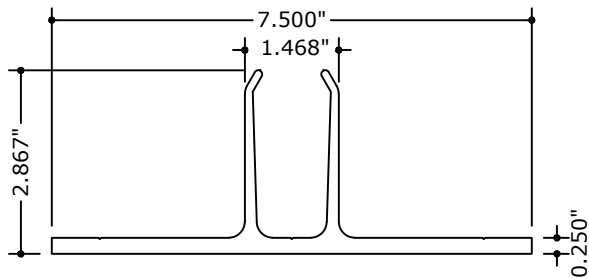
30 HW-533 ROLL UNDER HORIZ.
(L.M. & S.M.)



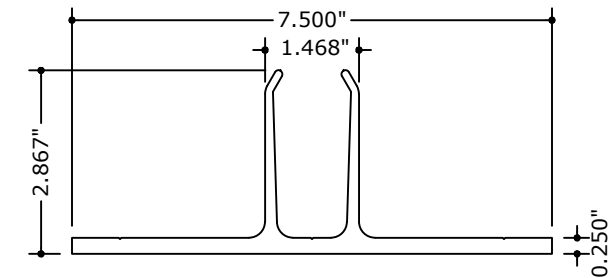
31 HW-536 HORIZONTAL
(L.M. & S.M.)



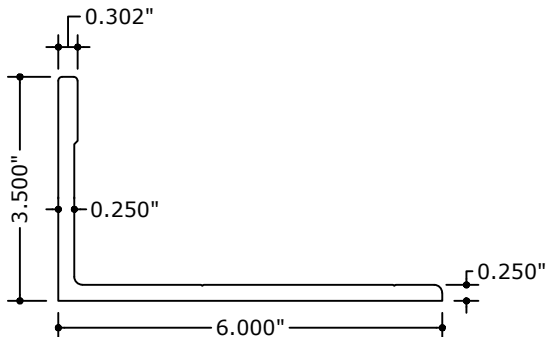
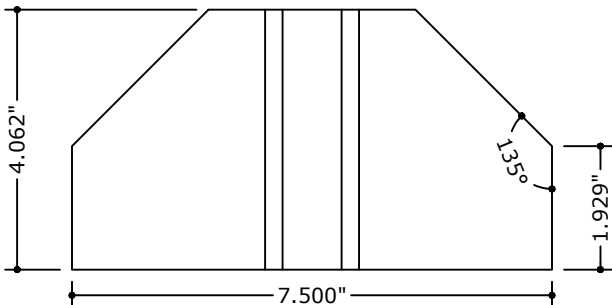
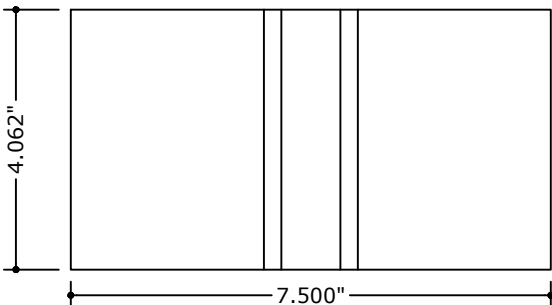
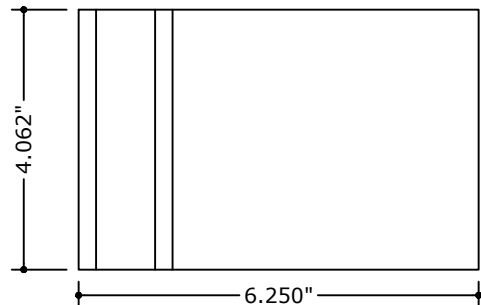
32 HW-103-01 "F" ANCHOR
(JAMB MULLION)
(L.M. & S.M.)



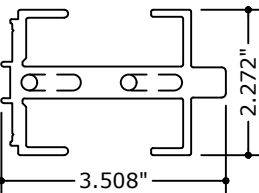
33 HW-105-01 "T" ANCHOR
(STD. MULLION & TOP OF
DOOR JAMB MULLION)
(L.M. & S.M.)



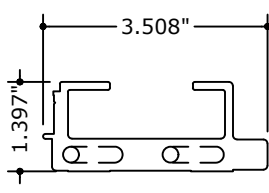
34 HW-105-02 "T" ANCHOR
(CORNER MULLION)
(L.M. & S.M.)



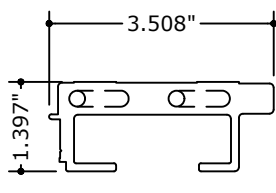
35 HW-174-01 "L" ANCHOR
(JAMB & STD. MULLION)
(L.M. & S.M.)



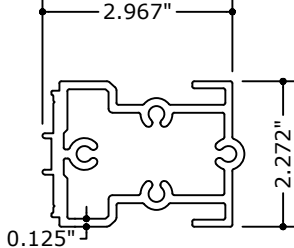
36 HW-180-01 CORNER
SHEAR BLOCK
(L.M. & S.M.)



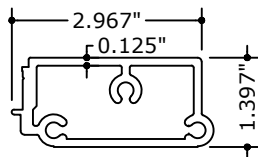
37 HW-180-02 CORNER
SHEAR BLOCK
(L.M. & S.M.)



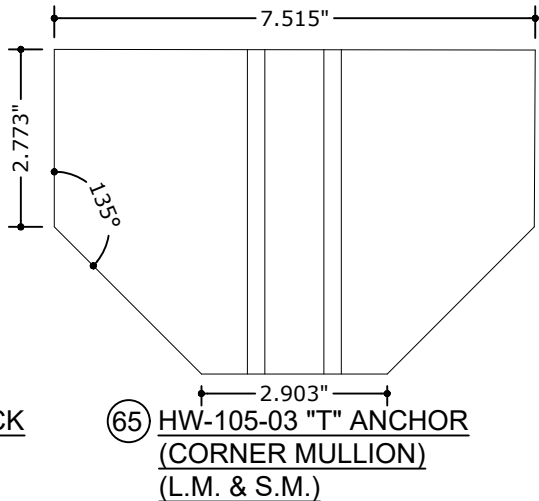
38 HW-180-03 CORNER
SHEAR BLOCK
(L.M. & S.M.)



39 HW-183-01 SHEAR BLOCK
(L.M. & S.M.)



40 HW-184-01 SHEAR BLOCK
(L.M. & S.M.)



65 HW-105-03 "T" ANCHOR
(CORNER MULLION)
(L.M. & S.M.)

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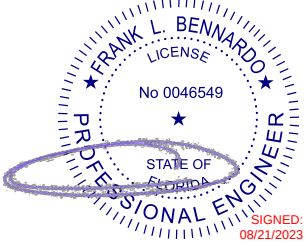
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PE# 0046549 CA# 9885



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AUGUST 21, 2023

BILL OF MATERIALS				
ITEM NO.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL
1	CW-2101	SETTING BLOCK	.50x .188x 4.00	EPDM 85 DUROMETER
2	CW-2102	SETTING BLOCK	1.250x .188x 4.00	EPDM 85 DUROMETER
3	FG-5185S	INTERIOR SPACER GASKET	.375x 0.25	SILICONE 70 DURO
4	FS-7	HORIZ. TO SHEAR BLOCK FASTENER #10x 3/4" PFH	3/4"	ZINC COATED STEEL
5	FS-9	SHEAR BLOCK ASSEMBLY SCREW #14x 1 1/2" HH	1 1/2"	ZINC COATED STEEL
6	FS-259	JAMB CAP PLATE FASTENER 1/4-20x 1" PFH TYPE F	1"	ZINC COATED STEEL
7	FS-320	END CAP ATTACHMENT FASTENER M4X16MM HEADED HELICAL KNURLED PIN	1/2"	LOW CARBON STEEL
8	FS-322	POCKET FILLER ATTACHMENT #12-14x 1" HEX WASHER HEAD DRILLFLEX	1"	GRD 5 STEEL /GRD 8 DRILL
9	FS-325	PRESSURE PLATE SCREW #12-24x 1 11/32" HWH SELF DRILLING SCREW	1 1/2"	GRD 5 STEEL
10	FS-328	ADAPTOR ATTACHMENT SCREW #10x 1 1/2" PFH	1 1/2"	ZINC COATED STEEL
11	GP-107	ISOLATOR GASKET	.449 X .626	EPDM 70 DUROMETER
12	GP-117	EXTERIOR GASKET	.423 X .505	EPDM 60 DUROMETER
13	GP-160	EXTERIOR GASKET AT EXP HORIZ.	.479 X .348	EPDM 85 DUROMETER
14	HW-100	FACE CAP	4.50x .50x .062	6063-T5 ALUMINUM
15	HW-102	PRESSURE PLATE	4.401 X .432 X .094	6063-T6 ALUMINUM
16	HW-115	FACE CAP	3.94x .528x .050	6063-T5 ALUMINUM
17	HW-122	POCKET FILLER	1.562 X .937 X .094	6063-T5 ALUMINUM
18	HW-130	GLAZING ADAPTOR	.910 X .861 X .080	6063-T6 ALUMINUM
19	HW-132	CORNER PRESSURE PLATE	3.285 X 2.24 X .094	6063-T6 ALUMINUM
20	HW-240	CORNER MULLION	2.5 X 6.295 X .094	6063-T6 ALUMINUM
21	HW-312	CORNER BRIDGE	3.50x 1.625x .625	EPDM SPONGE "00" DUROMETER, CLOSED CELL
22	HW-323	CORNER MULL CAP	3.00x 1.925x .063	5005-H32 ALUMINUM
23	HW-325	MULL CAP	3.00x 1.925x .063	5005-H32 ALUMINUM
24	HW-338	JAMB CAP	2.75x 1.925x .063	5005-H32 ALUMINUM
25	HW-500	MULLION	2.50 X 6.760 X .094	6063-T6 ALUMINUM
26	HW-501	HEAD	2.50 X 6.765 X .094	6063-T6 ALUMINUM
27	HW-502	SILL	2.50 X 6.765 X .094	6063-T6 ALUMINUM
28	HW-510	HEAVY MULLION	2.50 X 6.760 X .094	6063-T6 ALUMINUM
29	HW-532	ROLL OVER HORIZONTAL	2.50 X 6.729 X .094	6063-T6 ALUMINUM
30	HW-533	ROLL UNDER HORIZONTAL	2.50 X 6.729 X .094	6063-T6 ALUMINUM
31	HW-536	EXPANSION HORIZONTAL	1.625x 6.729x .094	6063-T6 ALUMINUM
32	HW-103-01	"F" ANCHOR (JAMB MULLION)	6.25x 2.869x 0.25x 4.062	6063-T6 ALUMINUM
33	HW-105-01	"T" ANCHOR (STD. & DOOR JAMB MULLION)	7.50x 2.869x 0.25x 4.062	6063-T6 ALUMINUM
34	HW-105-02	"T" ANCHOR (CORNER MULLION)	7.50x 2.869x 0.25x 4.061	6063-T6 ALUMINUM
35	HW-174-01	"L" ANCHOR (STD. & JAMB MULLION)	3.50x 6.0x 0.25x 4.062	6063-T6 ALUMINUM
36	HW-180-01	SHEAR BLOCK	3.508x 2.272x .50	6063-T6 ALUMINUM
37	HW-180-02	SHEAR BLOCK	3.508x 2.272x .50	6063-T6 ALUMINUM
38	HW-180-03	SHEAR BLOCK	3.508x 2.272x .50	6063-T6 ALUMINUM
39	HW-183-01	SHEAR BLOCK	2.827x 2.272x .125	6063-T6 ALUMINUM
40	HW-184-01	SHEAR BLOCK	3.153x 1.397x .125	6063-T6 ALUMINUM
41	HW-191-01	CORNER SPLICE	5.557x 1.125x 8.00x .126	6063-T6 ALUMINUM
42	HW-194-01	JAMB & STD. MULLION SPLICE	4.950x 1.125x 8.00x .125	6063-T6 ALUMINUM
43	HW-200-01	STD. MULLION ANCHOR SLEEVE	2.282x 4.953X 2.50x .125	6063-T6 ALUMINUM

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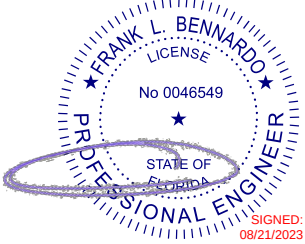
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BILL OF MATERIALS				
ITEM NO.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL
44	HW-201-01	HEAVY MULL ANCHOR SLEEVE	2.282x 4.675X 2.50x .125	6063-T6 ALUMINUM
45	HW-201-02	HEAVY MULL SPLICE	2.282x 4.675X 8.00x .125	6063-T6 ALUMINUM
46	RS-15	STEEL BAR	.50x 4.00	ASTM A-36
46A	RS-17	STEEL CHANNEL W/ 3/4" X 4" BAR	1.875 X 4.718 X .25	ASTM A-36
47	RS-25	1-7/8" X 4-11/16" STEEL CHANNEL X 1/4"	1.875 X 4.688 X .25	ASTM A-36
48	WW-110	FACE CAP	.50x 2.50x .050	6063-T5 ALUMINUM
49	WW-162	PRESSURE PLATE	.442 X 2.401 X .094	6063-T6 ALUMINUM
50	WW-224	MULLION FILLER	1.862 X 2.5 X .078	6063-T5 ALUMINUM
51	WW-237	FILLER	.313 X 4.905 X .080	6063-T5 ALUMINUM
52	WW-352	ZONE PLUG	1.061 X .885 X .645	ABS PLASTIC
53	795	PERIMETER SEAL	-	SILICONE
54	SCS 2000	PERIMETER SEAL	-	SILICONE
55	995	POCKET SEAL	-	SILICONE
56	SSG 4600	POCKET SEAL	-	SILICONE
57	FASTENERS	MID POINT ANCHOR AT MULLIONS 5/8-18x 4 1/2" HH	4 1/2"	GRADE 5 ZINC PLATED
58	FASTENERS	MID POINT ANCHOR AT MULLIONS 5/8-18x NUTS	-	GRADE 5 ZINC PLATED
59	FASTENERS	MID POINT ANCHOR AT JAMBS 5/8-18x 1 3/4" HH FN THREAD	1 3/4"	GRADE 5 ZINC PLATED
60	HW-108-01 "U" ANCHOR	AT DOOR JAMB MULLION & AT JAMB MULLION AT DOOR W/ NO SIDELITE & OPTIONAL AT JAMB MULLION	2.875x 1.468x 0.25x 4.062	6063-T6 ALUMINUM
61	D-226	DOOR FRAME	1.00x 5.00x .094	6063-T6 ALUMINUM
62	D-231	DOOR JAMB SCREW SPLINE	1.00x 5.00x .094	6063-T6 ALUMINUM
63	GP-1015	INTERIOR GASKET	.319x 0.963	EPDM 70 DUROMETER
64	INSULATING GLASS UNIT SPACER	MODEL H 6.5 1/2" WIDEx 1/4" HIGHx 0.014" THICK		3105-H24 ALUMINUM
65	HW-105-03	"T" ANCHOR (CORNER MULLION)	7.50x 2.804x 0.25x 5.074	6063-T6 ALUMINUM



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