

METALS USA DELUXE GABLE SUNROOM

MASTER PLAN SHEET

NON-HABITABLE & NON-IMPACT

PE#

11/18/2020

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FOUR SEASONS BUILDING PRODUCTS
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GROVELAND, FL
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METALS USA DELUXE GABLE
SUNROOM MASTER PLAN

REMARKS	DATE	DRWN	CHKD
INIT ISSUE	09/27/20	TT	FB

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1 OF 5

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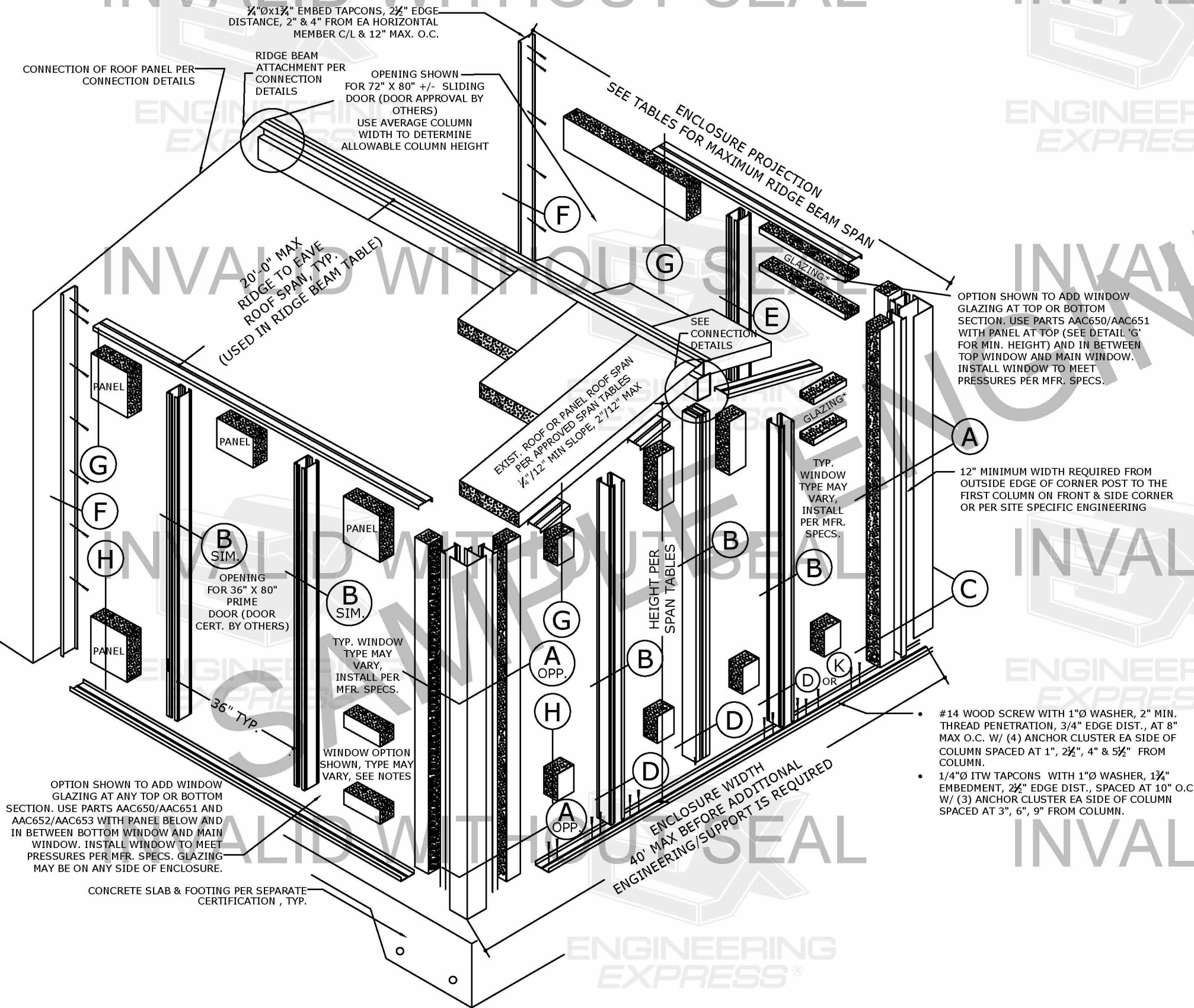
GENERAL NOTES:

- DESIGN IS PER THE 7TH EDITION FLORIDA BUILDING CODE (2020), THE 6TH EDITION FLORIDA BUILDING CODE (2017), THE 2012/2015/2018 IBC/IRC, AS WELL AS CURRENT VERSIONS OF THE MN, NC, NJ, NY, OH, SC, & VA BUILDING CODES AS APPLICABLE. CODE ENFORCED COMPLIES WITH STATE OF SEAL AND IF MULTIPLE VERSIONS LISTED THEN MOST STRINGENT APPLIES.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH ASCE 7-16 OR ASCE 7 AS APPLICABLE.
- *THIS DOCUMENT DOES **NOT** CERTIFY PRODUCT FOR USE AS A HABITABLE STRUCTURE. AAMA 2100 SUNROOM CLASSIFICATION II, III, OR IV ONLY.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- THE DESIGN PROFESSIONAL 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.
- OPENINGS IN SUNROOMS, BALCONIES OR ENCLOSED PORCHES CONSTRUCTED UNDER EXISTING ROOFS OR DECKS ARE NOT REQUIRED TO BE PROTECTED PROVIDED THE SPACES ARE SEPARATED FROM THE BUILDING INTERIOR BY A WALL AND ALL OPENINGS IN THE SEPARATING WALL ARE PROTECTED IN ACCORDANCE WITH FBC/IBC CHAPTER 16.
- FASTENERS:**
ALL FASTENERS TO BE #8 OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION 5.2.1 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE AS NOTED HEREIN. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY. ALL TAPCONS MUST BE ITW CARBON STEEL TAPCONS OR EQUIVALENT W/ 1-3/4" EMBED, 3" MIN. EDGE DISTANCE, FASTENED TO MINIMUM 3192 PSI MIN., UN-CRACKED CONCRETE, UNLESS NOTED OTHERWISE.
- MATERIALS:**
ALL WOOD MEMBERS SHALL BE G-0.55 MIN WOOD ONLY.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS, I.E. ALUMINUM PER F.B.C. 2003.8.4.
- ALL ALUMINUM SHALL BE 6063-T6 ALLOY AND TEMPER UNLESS NOTED OTHERWISE.
- OTHER:**
WINDOWS AND DOORS SHALL BE BY OTHERS IN ACCORDANCE WITH REQUIRED WIND PRESSURES STATED IN TABLES & SHALL MEET ALL PRODUCT APPROVAL REQUIREMENTS. THIS ENCLOSURE IS **NOT IMPACT RESISTANT**. SHUTTERS **SHALL NOT BE INSTALLED TO THIS ENCLOSURE**. WHEN REQUIRED BY CODE, AN APPROVED IMPACT PROTECTION SYSTEM SHALL BE INSTALLED AT THE HOST STRUCTURE. HOST STRUCTURE DOORS AND WINDOWS ARE NOT TO BE REMOVED EXITING TO THIS ENCLOSURE. THIS ENCLOSURE IS NON-HABITABLE SPACE.
- ELECTRICAL GROUND AND ALL RELATED WIRING AND CONSIDERATIONS TO BE DESIGNED BY OTHERS AS REQUIRED.
- 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.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et al. INDEMNITIES AND SAVES HARMLESS THIS ENGINEER FOR ALL COSTS AND DAMAGES INCLUDING LEGAL FEES AND APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES AND FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED IN THIS SPECIFICATION, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

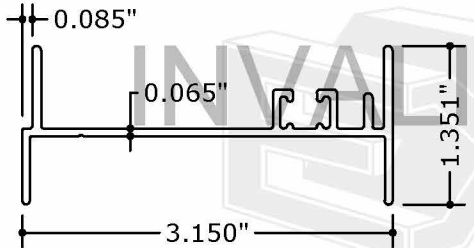
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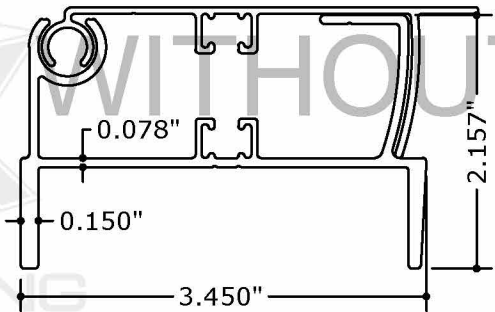
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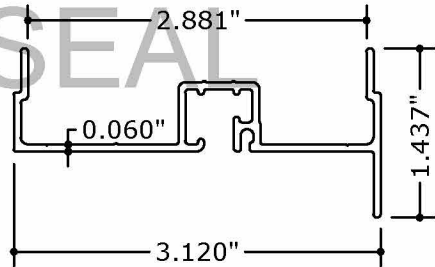
EXTRUSIONS: 6063-T6 ALUMINUM ALLOY



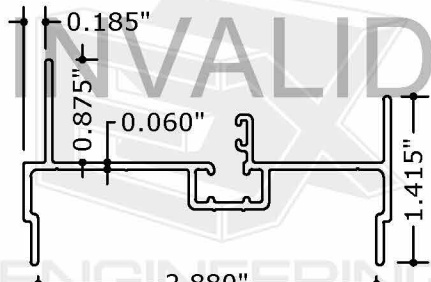
AAC916 - MATED H



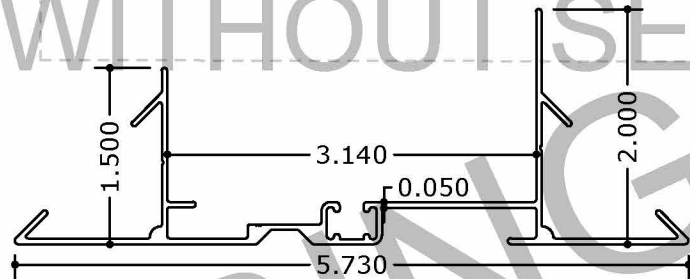
AAC723A - ADJUSTABLE WALL HEADER



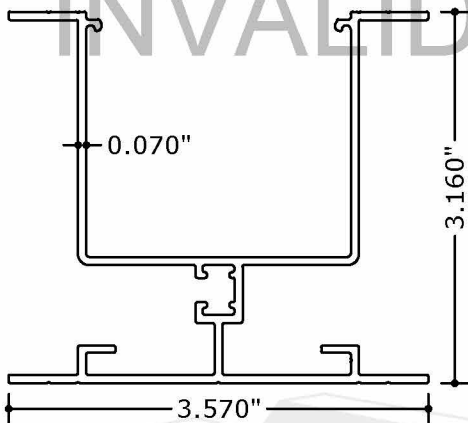
AAC653 - FRAME JAMB



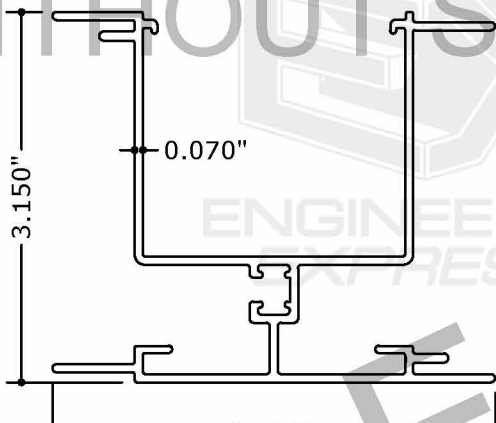
AAC652 - FRAME JAMB (LOCK)



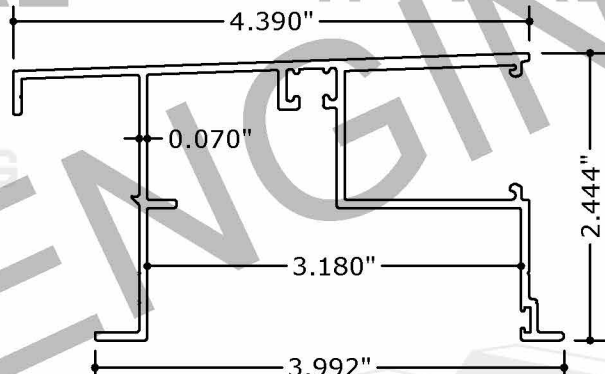
47889 - TOP & BOTTOM CHANNEL



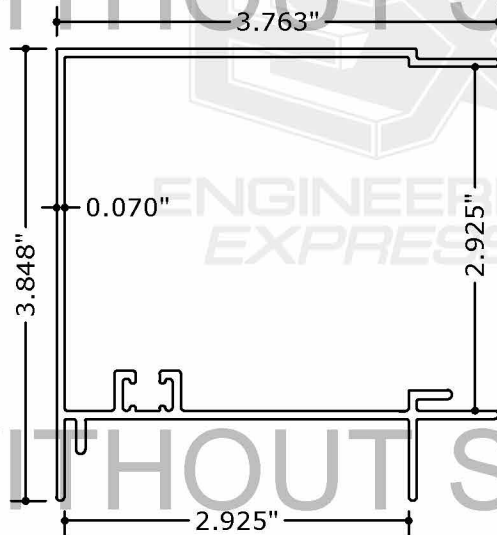
AAC216 - ELECTRICAL WALL MULLION (STICKBUILT)



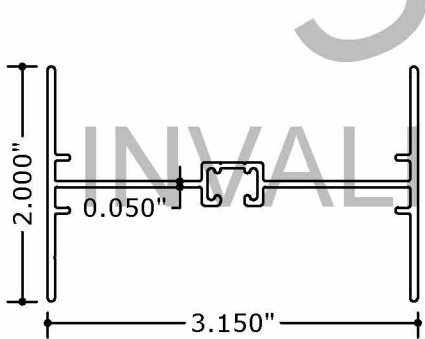
48122 - ELECTRICAL WALL MULLION (MODULAR)



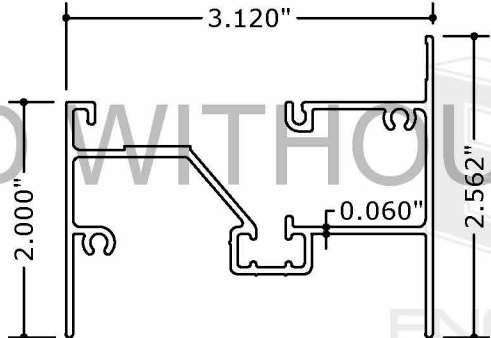
AAC215 - ELECTRICAL WALL HEADER



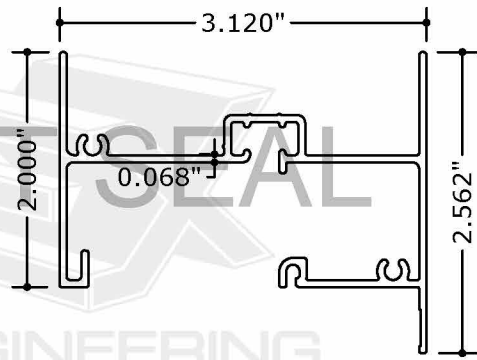
48121 - CORNER WALL MULLION



AAC523 - MULLION



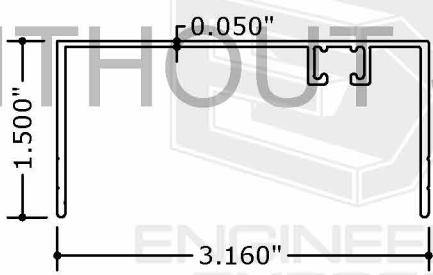
AAC651 - FRAME SILL



AAC650 - FRAME HEADER



AAC293 - BASE SHOE



AAC522 - WALL CHANNEL

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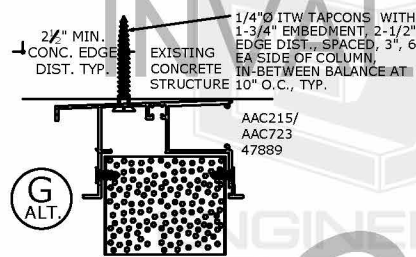
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Technical drawing showing a cross-section of a wall panel connection. The drawing includes a horizontal section at the top and a vertical section below it. The horizontal section shows a wall panel with a width of 3" MIN. and a height of 1"x2"x0.090". The vertical section shows the wall panel connected to a vertical member. The connection is reinforced with #14 wood screws with 2" MIN. thread penetration, 3/4" edge dist., at 7" MAX. O.C. W/ (2) anchor cluster EA side of column spaced at 1" & 2" from column. OR 1/4"Ø ITW TAPCONS, 1 3/4" EMBEDMENT, 2 1/2" edge dist., spaced at 10" O.C. W/ (2) anchor cluster EA side of column spaced at 3", 6" from column. 14x3/8" SMS MIN. at EA column, top & bottom located as shown spaced at 12" MAX. O.C.

3" MIN.

1"x2"x0.090"
CONTINUOUS ANGLE
(ANGLES 1 IN, 1 OUT,
INT/EXT MAY VARY)

WALL PANEL

• #14 WOOD SCREW WITH, 2" MIN. THREAD PENETRATION, 3/4" EDGE DIST., AT 7" MAX. O.C. W/ (2) ANCHOR CLUSTER EA SIDE OF COLUMN SPACED AT 1" & 2" FROM COLUMN.

OR

• 1/4"Ø ITW TAPCONS, 1 3/4" EMBEDMENT, 2 1/2" EDGE DIST., SPACED AT 10" O.C. W/ (2) ANCHOR CLUSTER EA SIDE OF COLUMN SPACED AT 3", 6" FROM COLUMN.

14x3/8" SMS MIN. at EA column, top & bottom located as shown spaced at 12" MAX. O.C.



3

COLUMN ALLOWABLE HEIGHT TABLES:

COLUMN TYPE	MAX ROOF SPAN S (FT)	LIVE LOAD GRAVITY (PSF)	WIND LOAD (PSF)	Wind Load (psf)	AVERAGE COLUMN SPACING W(FT)				
					2	3	4	5	6
Mullion + H-Post	10	10	20	20	12'-0"	12'-0"	12'-0"	12'-0"	11'-0"
			30	30	12'-0"	12'-0"	12'-0"	10'-5"	9'-0"
			40	40	12'-0"	12'-0"	10'-9"	9'-1"	7'-9"
			50	50	12'-0"	11'-9"	9'-7"	8'-1"	7'-0"
		20	20	20	12'-0"	12'-0"	11'-8"	8'-11"	6'-8"
			30	30	12'-0"	12'-0"	9'-7"	7'-3"	5'-6"
			40	40	12'-0"	11'-0"	8'-3"	6'-4"	4'-9"
			50	50	12'-0"	9'-10"	7'-5"	5'-8"	4'-3"
		30	20	20	12'-0"	12'-0"	8'-2"	5'-0"	-
			30	30	12'-0"	10'-2"	6'-8"	4'-1"	-
			40	40	12'-0"	8'-10"	5'-10"	-	-
			50	50	12'-0"	7'-11"	5'-2"	-	-
	20	10	20	20	12'-0"	9'-6"	4'-9"	-	-
			30	30	12'-0"	7'-9"	-	-	-
			40	40	11'-8"	6'-8"	-	-	-
			50	50	10'-6"	6'-0"	-	-	-
		20	20	20	12'-0"	12'-0"	12'-0"	9'-7"	7'-5"
			30	30	12'-0"	12'-0"	10'-0"	7'-10"	6'-1"
			40	40	12'-0"	11'-4"	8'-8"	6'-9"	5'-3"
			50	50	12'-0"	10'-2"	7'-9"	6'-0"	4'-8"
		30	20	20	12'-0"	10'-6"	5'-11"	-	-
			30	30	12'-0"	8'-7"	4'-10"	-	-
			40	40	12'-0"	7'-5"	4'-2"	-	-
			50	50	11'-0"	6'-8"	-	-	-
	40	10	20	20	12'-0"	5'-0"	-	-	-
			30	30	10'-6"	4'-0"	-	-	-
			40	40	9'-1"	-	-	-	-
			50	50	8'-1"	-	-	-	-
		20	20	20	12'-0"	-	-	-	-
			30	30	10'-6"	-	-	-	-
			40	40	9'-1"	-	-	-	-
			50	50	8'-1"	-	-	-	-
		30	20	20	12'-0"	-	-	-	-
			30	30	6'-10"	-	-	-	-
			40	40	5'-11"	-	-	-	-
			50	50	5'-3"	-	-	-	-

COLUMN TYPE	MAX ROOF SPAN S (FT)	LIVE LOAD GRAVITY (PSF)	WIND LOAD (PSF)	Wind Load (psf)	AVERAGE COLUMN SPACING W(FT)				
					2	3	4	5	6
Mullion + Elec H	10	10	20	20	12'-0"	12'-0"	12'-0"	10'-8"	9'-8"
			30	30	12'-0"	11'-6"	9'-10"	8'-9"	7'-10"
			40	40	12'-0"	10'-0"	8'-6"	7'-7"	6'-10"
			50	50	11'-0"	8'-11"	7'-8"	6'-9"	6'-1"
		20	20	20	12'-0"	12'-0"	11'-6"	10'-1"	9'-0"
			30	30	12'-0"	11'-1"	9'-5"	8'-3"	7'-4"
			40	40	12'-0"	9'-8"	8'-2"	7'-2"	6'-4"
			50	50	10'-9"	8'-7"	7'-4"	6'-4"	5'-8"
		30	20	20	12'-0"	12'-0"	11'-0"	9'-6"	8'-4"
			30	30	12'-0"	10'-9"	9'-0"	7'-9"	6'-10"
			40	40	11'-10"	9'-4"	7'-9"	6'-8"	5'-11"
			50	50	10'-7"	8'-4"	7'-0"	6'-0"	5'-3"
	20	10	20	20	12'-0"	12'-0"	10'-6"	8'-11"	7'-8"
			30	30	12'-0"	10'-4"	8'-7"	7'-3"	6'-3"
			40	40	11'-6"	9'-0"	6'-3"	5'-5"	-
			50	50	10'-4"	8'-0"	6'-7"	5'-8"	4'-10"
		20	20	20	12'-0"	12'-0"	11'-7"	10'-2"	9'-1"
			30	30	12'-0"	11'-2"	9'-6"	8'-4"	7'-5"
			40	40	12'-0"	9'-8"	8'-3"	7'-2"	6'-5"
			50	50	10'-10"	8'-8"	7'-4"	6'-5"	5'-9"
		30	20	20	12'-0"	12'-0"	10'-8"	9'-1"	7'-11"
			30	30	12'-0"	10'-6"	8'-8"	7'-5"	6'-5"
			40	40	11'-7"	9'-1"	7'-6"	6'-5"	5'-7"
			50	50	10'-5"	8'-2"	6'-9"	5'-9"	5'-0"
	40	10	20	20	12'-0"	12'-0"	10'-8"	9'-1"	7'-11"
			30	30	12'-0"	10'-6"	8'-8"	7'-5"	6'-5"
			40	40	11'-7"	9'-1"	7'-6"	6'-5"	5'-7"
			50	50	10'-5"	8'-2"	6'-9"	5'-9"	5'-0"
		20	20	20	12'-0"	12'-0"	9'-8"	8'-0"	6'-9"
			30	30	12'-0"	9'-10"	7'-11"	6'-6"	5'-6"
			40	40	11'-2"	8'-6"	6'-10"	5'-8"	4'-9"
			50	50	10'-0"	7'-7"	6'-1"	5'-1"	4'-3"
		30	20	20	12'-0"	11'-2"	8'-9"	7'-0"	5'-6"
			30	30	12'-0"	9'-2"	7'-1"	5'-8"	4'-6"
			40	40	10'-8"	7'-11"	6'-2"	4'-11"	-
			50	50	9'-6"	7'-1"	5'-6"	4'-5"	-

COLUMN TYPE	MAX ROOF SPAN S (FT)	LIVE LOAD GRAVITY (PSF)	WIND LOAD (PSF)	Wind Load (psf)	AVERAGE COLUMN SPACING W(FT)				
					2	3	4	5	6
Mullion + H-Post + Jamb	10	10	20	20	12'-0"	12'-0"	10'-7"	9'-4"	8'-5"
			30	30	12'-0"	10'-1"	8'-8"	7'-8"	6'-11"
			40	40	10'-10"	8'-9"	7'-6"	6'-7"	6'-0"
			50	50	9'-8"	7'-10"	6'-8"	6'-0"	5'-4"
		20	20	20	12'-0"	12'-0"	10'-1"	8'-10"	7'-10"
			30	30	12'-0"	9'-9"	8'-3"	7'-2"	6'-5"
			40	40	10'-7"	8'-5"	7'-2"	6'-3"	5'-7"
			50	50	9'-6"	7'-7"	6'-5"	5'-7"	5'-0"
		30	20	20	12'-0"	11'-6"	9'-7"	8'-3"	7'-3"
			30	30	12'-0"	9'-5"	7'-10"	6'-9"	6'-0"
			40	40	10'-4"	8'-2"	6'-10"	5'-10"	5'-2"
			50	50	9'-3"	7'-4"	6'-1"	5'-3"	4'-7"
	20	10	20	20	12'-0"	11'-1"	9'-2"	7'-9"	6'-8"
			30	30	11'-8"	9'-1"	7'-5"	6'-4"	5'-5"
			40	40	10'-1"	7'-10"	6'-5"	5'-6"	4'-8"
			50	50	9'-0"	7'-0"	5'-9"	4'-11"	4'-2"
		20	20	20	12'-0"	12'-0"	10'-2"	9'-0"	8'-0"
			30	30	12'-0"	9'-10"	8'-4"	7'-3"	6'-6"
			40	40	10'-8"	8'-6"	7'-2"	6'-4"	5'-7"
			50	50	9'-6"	7'-7"	6'-5"	5'-8"	5'-0"
		30	20	20	12'-0"	11'-3"	9'-3"	7'-11"	6'-10"
			30	30	11'-9"	9'-2"	7'-7"	6'-5"	5'-7"
			40	40	10'-2"	8'-0"	6'-7"	5'-7"	4'-10"
			50	50	9'-1"	7'-1"	5'-11"	5'-0"	4'-4"
	40	10	20	20	12'-0"	10'-6"	8'-5"	6'-11"	5'-9"
			30	30	11'-3"	8'-7"	6'-10"	5'-8"	4'-8"
			40	40	9'-9"	7'-5"	6'-0"	4'-11"	4'-1"
			50	50	8'-9"	6'-7"	5'-4"	4'-4"	-
		20	20	20	12'-0"	9'-8"	7'-6"	5'-11"	4'-8"
			30	30	10'-9"	8'-0"	6'-1"	4'-10"	-
			40	40	9'-3"	6'-10"	5'-4"	4'-2"	-
			50	50	8'-4"	6'-2"	4'-9"	-	-

TABLE NOTES:

- 1) 2015 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED.
- 2) VERIFY ALL LOADING REQUIREMENTS WITH BUILDING DEPARTMENT.
- 3) DEFLECTION LIMIT = L/180.
- 4) COLUMNS WITH THERMAL BREAKS SHALL HAVE THEIR ALLOWABLE SPAN RESULTS **REDUCED BY 10%.**
- 5) COLUMN SPACING IS HALF THE DISTANCE TO THE LEFT ADDED TO HALF THE DISTANCE TO THE RIGHT OF THE BEAM (AVERAGE COLUMN SPACING, SEE FIGURE.
- 6) *LIVE LOADS SPECIFIED HEREIN LIST THE ALLOWABLE ROOF LIVE LOAD AND MAY BE SUBSTITUTED WITH THE REQUIRED SNOW LOAD (NOT CONCURRENTLY WITH THE ROOF LIVE LOAD, BUT CONCURRENT WITH WIND) PROVIDED THE PROJECT SITE IS CERTIFIED BY A DESIGN PROFESSIONAL BASED ON SITE SPECIFIC PROJECT CONDITIONS.


COLUMN TYPE	MAX ROOF SPAN S (FT)	LIVE LOAD GRAVITY (PSF)	WIND LOAD (PSF)	Wind Load (psf)	AVERAGE COLUMN SPACING W(FT)				
					2	3	4	5	6
Mullion + Elec H + Jamb	10	10	20	20	12'-0"	12'-0"	12'-0"	12'-0"	11'-5"
			30	30	12'-0"	12'-0"	11'-7"	10'-3"	9'-4"
			40	40	12'-0"	11'-8"	10'-1"	8'-11"	8'-1"
			50	50	12'-0"	10'-6"	9'-0"	8'-0"	7'-3"
		20	20	20	12'-0"	12'-0"	12'-0"	12'-0"	10'-10"
			30	30	12'-0"	12'-0"	11'-2"	9'-10"	8'-10"
			40	40	12'-0"	11'-5"	9'-8"	8'-6"	7'-8"
			50	50	12'-0"	10'-2"	8'-8"	7'-7"	6'-10"
		30	20	20	12'-0"	12'-0"	12'-0"	11'-6"	10'-3"
			30	30	12'-0"	12'-0"	10'-10"	9'-5"	8'-4"
			40	40	12'-0"	11'-1"	9'-4"	8'-2"	7'-3"
			50	50	12'-0"	10'-0"	8'-4"	7'-3"	6'-6"
	20	10	20	20	12'-0"	12'-0"	12'-0"	11'-0"	9'-7"
			30	30	12'-0"	12'-0"	10'-5"	9'-0"	7'-10"
			40	40	12'-0"	10'-10"	9'-0"	7'-9"	6'-10"
			50	50	12'-0"	9'-8"	8'-1"	7'-0"	6'-1"
		20	20	20	12'-0"	12'-0"	12'-0"	12'-0"	10'-11"
			30	30	12'-0"	12'-0"	11'-3"	10'-0"	8'-11"
			40	40	12'-0"	11'-5"	9'-9"	8'-7"	7'-9"
			50	50	12'-0"	10'-3"	8'-9"	7'-8"	6'-11"
		30	20	20	12'-0"	12'-0"	12'-0"	11'-2"	9'-10"
			30	30	12'-0"	12'-0"	10'-7"	9'-1"	8'-0"
			40	40	12'-0"	10'-11"	9'-2"	7'-11"	7'-0"
			50	50	12'-0"	9'-9"	8'-2"	7'-1"	6'-3

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RIDGE BEAM SPAN TABLE:

WIND LOAD (PSF)	LIVE LOAD (PSF)	RIDGE BEAM CLEAR SPAN						
		14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	26'-0"	30'-0"
20	20	14'-8"	14'-1"	13'-8"	13'-2"	12'-9"	12'-1"	11'-6"
	30	13'-9"	13'-2"	12'-8"	12'-3"	11'-10"	11'-1"	10'-6"
	40	13'-0"	12'-4"	12'-0"	11'-5"	11'-1"	10'-4"	9'-10"
30	20	13'-3"	12'-9"	12'-5"	12'-0"	11'-8"	11'-1"	10'-7"
	30	12'-9"	12'-4"	12'-0"	11'-7"	11'-3"	10'-7"	10'-1"
	40	12'-2"	11'-8"	11'-3"	11'-0"	10'-7"	10'-0"	9'-5"
40	20	11'-0"	10'-7"	10'-3"	10'-0"	9'-8"	9'-2"	8'-9"
	30	11'-0"	10'-6"	10'-2"	9'-10"	9'-7"	9'-1"	8'-8"
	40	11'-0"	10'-6"	10'-2"	9'-10"	9'-7"	9'-1"	8'-8"