

3IN DELUXE MONOSLOPE SUNROOM

MASTER PLAN SHEET

PE#

10/21/2020

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METALS USA 3IN DELUXE SUN ROOM
MASTER PLAN SHEET

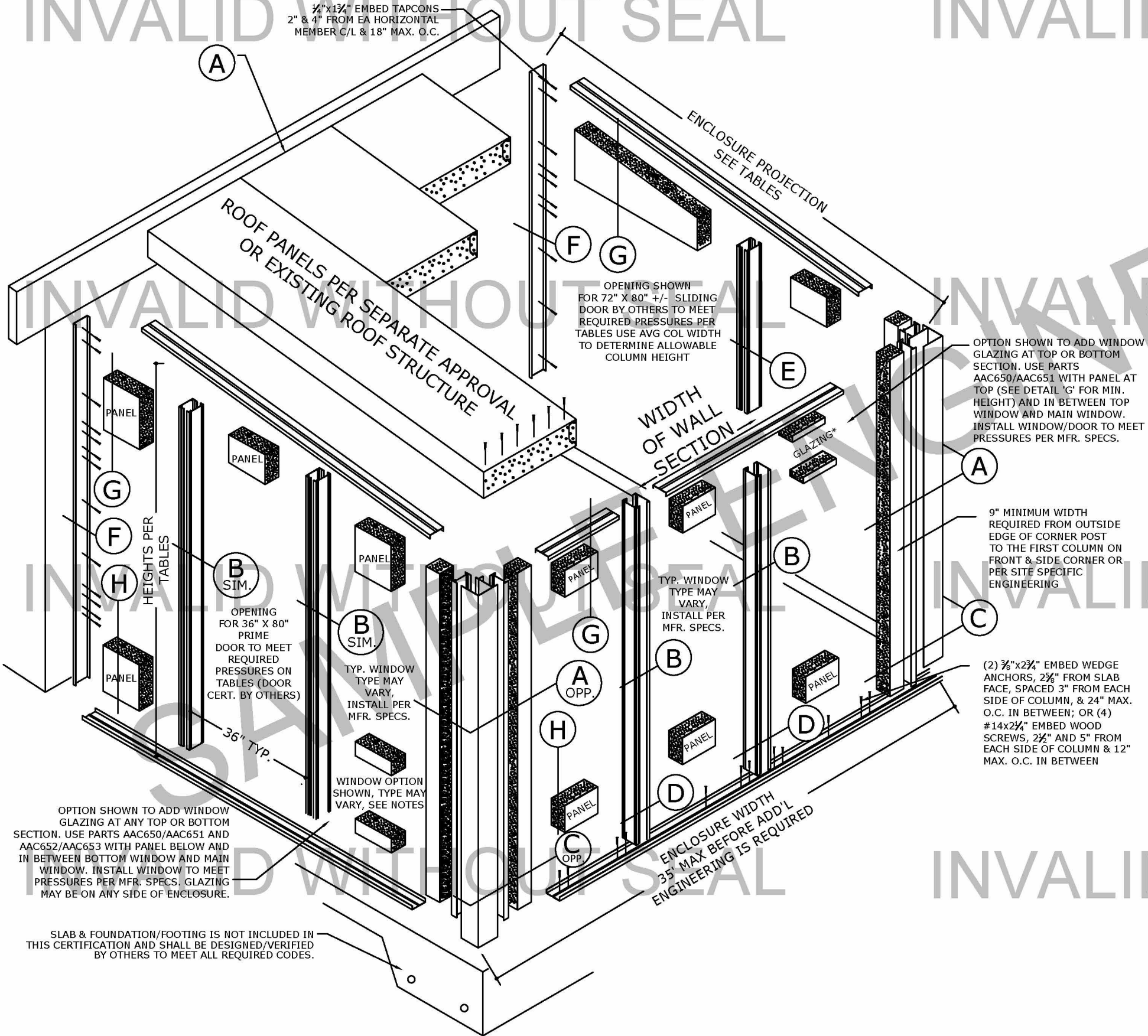
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GENERAL NOTES:

DESIGN:
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 AND CHAPTER 16 OF THE 2017 FLORIDA BUILDING CODE (6TH EDITION), THE 2020 FLORIDA BUILDING CODE (7TH EDITION) AND 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. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING ASCE 7-16 OR ASCE 7-10 BASED.

*THIS DOCUMENT DOES **NOT** CERTIFY PRODUCT FOR USE AS A HABITABLE STRUCTURE. AAMA 2100 SUNROOM CLASSIFICATION II, III, OR IV ONLY.

- STRUCTURE SHALL BE FABRICATED IN ACCORDANCE WITH ALL GOVERNING CODES. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY.
- WHILE THIS SYSTEM HAS BEEN REVIEWED TO WITHSTAND LOADS WITHIN THE LIMITATIONS SET FORTH HEREIN, SITE SPECIFIC APPLICATIONS SHALL BE REVIEWED FOR CONFORMANCE TO ALL LOADS, CODE RESTRICTIONS, CONNECTIONS, AND LOCAL CONDITIONS WHICH FALL BEYOND THE LIMITS OF THIS GENERIC MASTER PLAN. THIS PLAN IS FOR PERMIT ONLY. NO CERTIFICATION IS OFFERED FOR THE FINAL INSTALLED CONDITION BY THIS PLAN.
- THE ARCHITECT/ENGINEER OF RECORD OR PERMITTING CONTRACTOR FOR THE PROJECT SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES.
- THE HOST STRUCTURE SHALL NOT BE MODIFIED WITH THIS DESIGN - ALL EXISTING WINDOWS, DOORS, AND WALLS SHALL REMAIN IN PLACE. WHERE IMPACT PROTECTION IS REQUIRED, IT SHALL BE PLACED AT THE HOST STRUCTURE, NOT ON THE SUNROOM.
- THIS IS A STRUCTURAL DESIGN ONLY. NO ELECTRICAL, HVAC, OR OTHER TRADE CERTIFICATION IS OFFERED HEREIN.

- ANCHORAGE**
- ALL FASTENERS TO BE #12 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 J.3.1 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.

- MATERIALS**
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
 - ALL ALUMINUM SHALL BE 6063-T6 ALLOY AND TEMPER UNLESS NOTED OTHERWISE.
 - ALL CONCRETE TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS.
 - ANY WOOD USED IN A PRIMARY CONNECTION SHALL BE SYP#2 OR BETTER.

- OTHER**
- ENGINEER SEAL AFFIXED HERETO 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.
 - THE PRODUCT DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED PROFESSIONAL SHALL PREPARE SITE EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
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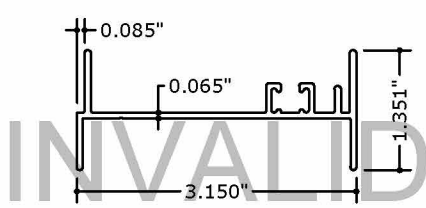
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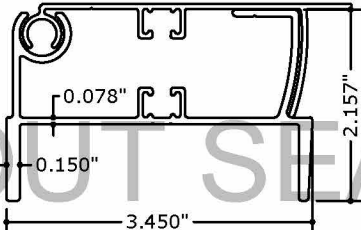


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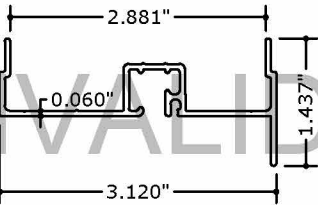
EXTRUSIONS:



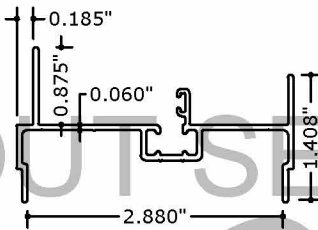
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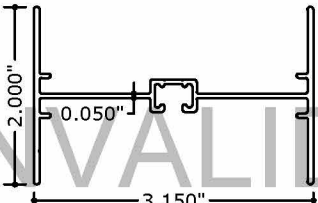
AAC723A - ADJUSTABLE WALL HEADER



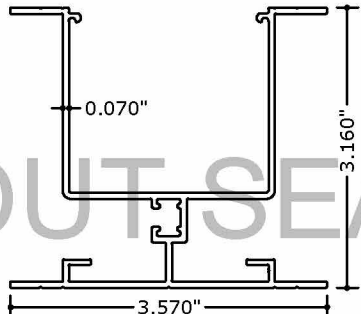
AAC653 - FRAME JAMB



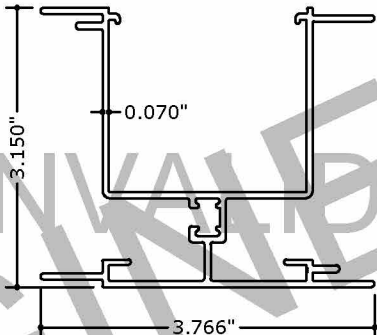
AAC652 - FRAME JAMB (LOCK)



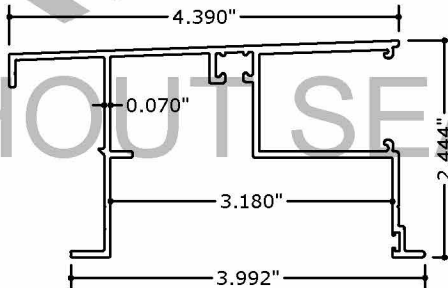
AAC523 - MULLION



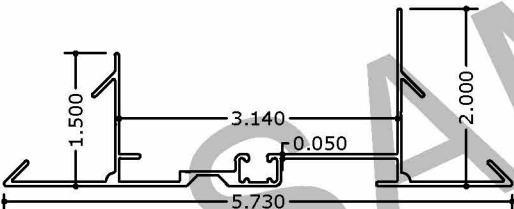
AAC216 - ELECTRICAL WALL MULLION (STICKBUILT)



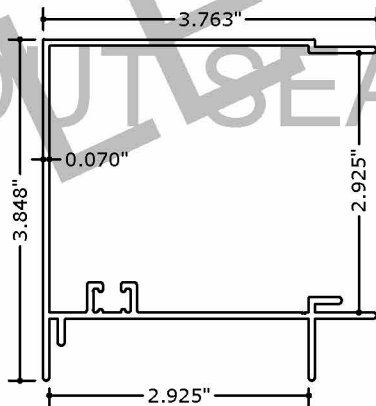
48122 - ELECTRICAL WALL MULLION (MODULAR)



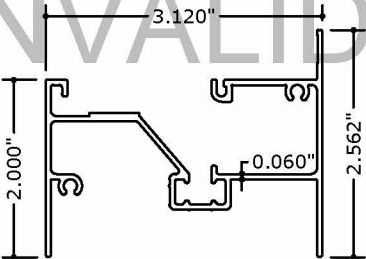
AAC215 - ELECTRICAL WALL HEADER



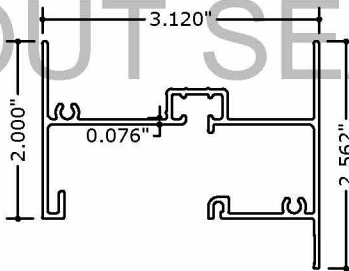
47889 - TOP & BOTTOM CHANNEL



48121 - CORNER WALL MULLION



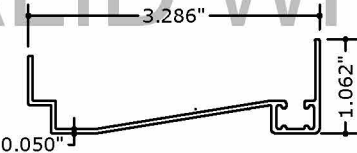
AAC651 - FRAME SILL



AAC650 - FRAME HEADER



AAC522 - WALL CHANNEL



AAC293 - BASE SHOE

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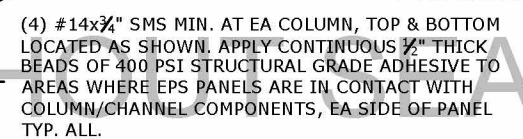
(2) ROWS $\frac{1}{4}$ "x3" LAG BOLTS STAGGERED @ 9" O.C. & ENDS TO 2" SOUND FASCIA. ENSURE FASCIA IS SECURELY FASTENED TO EACH RAFTER WITH (1) $\frac{1}{4}$ " X 3" LAG MIN. CENTER LAGS TO RAFTERS. ENSURE $1\frac{1}{2}$ " MIN. PENETRATION PRE-DRILL HOLE TO AVOID SPLITTING

EXISTING RAFTER OR TRUSS

2" NOMINAL STRUCTURAL FASCIA MINIMUM

ELITE EP-23

#14x $\frac{3}{4}$ " SMS @ 6" O.C. (8) PER 4' PANEL TOP & BOTTOM. ADD (2) SMS 2" & 4" FROM EACH ENCLOSURE END TOP & BOTTOM. HEAVY ADHESIVE CAULK TOP & BOTTOM CONTINUOUS



TYP. ELEVATION

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 + 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"
		40	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	10	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"
		20	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"
		30	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"	-
		40	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 1: MULLION WITH MATED H-POST COLUMN HEIGHT TABLE (MODULAR)

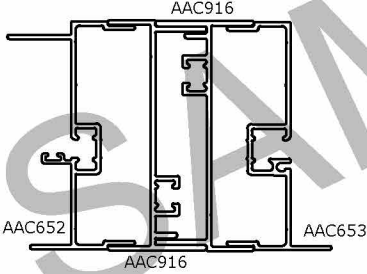


TABLE 2: MULLION WITH ELECTRIC COLUMN HEIGHT TABLE (MODULAR)

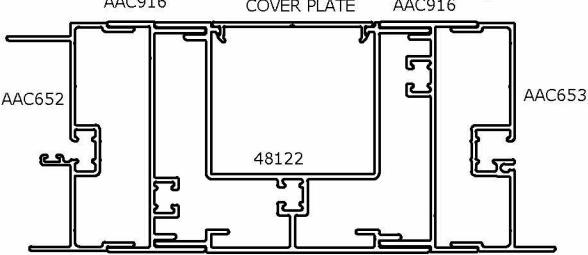
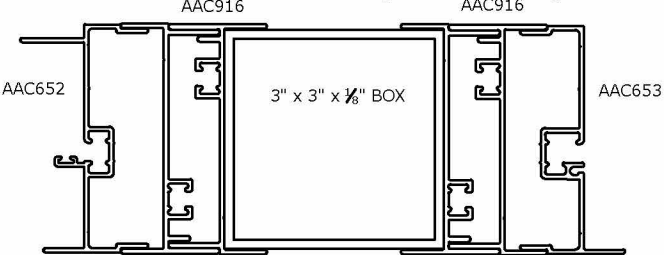


TABLE 3: 3" x 3" x 1/8" BOX + MATED H-POST COLUMN HEIGHT TABLE (MODULAR)




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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 WITH H-POST ADAPTOR COLUMN HEIGHT TABLE (STICKBUILT)	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"	-	-
		40	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	10	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"
		20	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"	-	-	-
		30	20	20	12'-0"	5'-0"	-	-	-
			30	30	10'-6"	4'-0"	-	-	-
			40	40	9'-1"	-	-	-	-
			50	50	8'-1"	-	-	-	-
		40	20	20	8'-4"	-	-	-	-
			30	30	6'-10"	-	-	-	-
			40	40	5'-11"	-	-	-	-
			50	50	5'-3"	-	-	-	-

TABLE 4: MULLION WITH H-POST ADAPTOR
COLUMN HEIGHT TABLE (STICKBUILT)

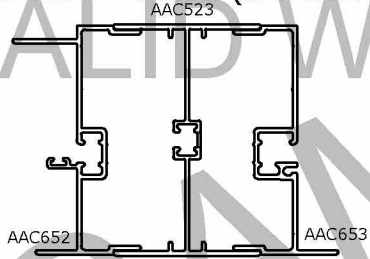
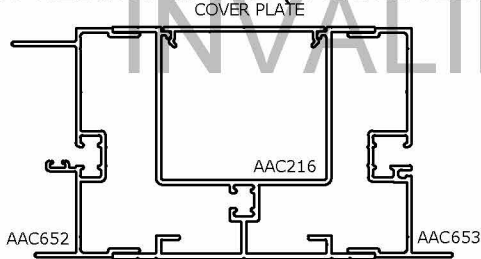


TABLE NOTES:

- 2015 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.
- USE APPROPRIATE TABLE REQUIRED BY THE GOVERNING BUILDING CODE. VERIFY REQUIREMENTS WITH BUILDING DEPARTMENT.
- TABLE DEFLECTION LIMIT = L/180, U.N.O.
- METALS USA MILLENNIUM WINDOW JAMBS USED FOR CALCULATIONS
- COLUMN SPACING IS HALF THE DISTANCE TO THE LEFT ADDED TO HALF THE DISTANCE TO THE RIGHT OF THE BEAM (AVERAGE COLUMN SPACING, SEE ILLUSTRATION).

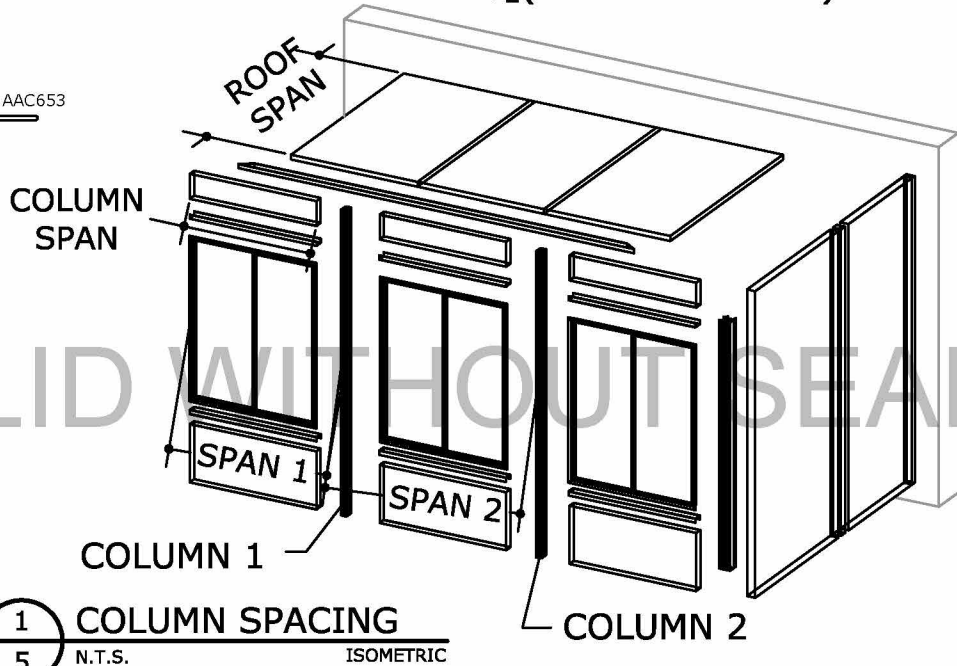
COLUMN TYPE	MAX ROOF SPAN S (FT)	LIVE LOAD GRAVITY (PSF)	WIND LOAD (PSF)	Wind Load (psf)	AVERAGE COLUMN SPACING W(FT)				
					2	3	4	5	6
MULLION WITH ELECTRIC COLUMN HEIGHT TABLE (STICKBUILT)	10	10	20	20	12'-0"	12'-0"	12'-0"	10'-8"	9'-8"
			30	30	12'-0"	11'-6"	9'-10"	8'-9"	7'-10"
			40	40	12'-0"	10'-0"	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"
		40	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"	7'-5"	6'-3"	5'-5"
			50	50	10'-4"	8'-0"	6'-7"	5'-8"	4'-10"
	20	10	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"
		20	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"
		30	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"
		40	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"	-

TABLE 5: MULLION WITH ELECTRIC
COLUMN HEIGHT TABLE (STICKBUILT)



COLUMN SPACING DEFINED:

- COLUMN 1 SPACING= $\frac{1}{2} * \text{SPAN 1}$
- COLUMN 2 SPACING= $\frac{1}{2}(\text{SPAN 1} + \text{SPAN 2})$



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